

US 6 Bridges Design Build Project

BR 0061-083

Sub Account Number 18838 (CN)

Hazardous Materials Technical Report

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Federal Highway Administration

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List of Abbreviated Terms

AST	Above Ground Storage Tanks
ASTM	American Society for Testing Materials
BGS	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAP	Corrective Action Plan
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS	RCRA Corrective Action
COSTIS	Colorado Storage Tank Information System
CFR	Code of Federal Regulations
CSEV	Colorado Soil Evaluation Values
EB	eastbound
EIS	Environmental Impact Statement
EPA	US Environmental Protection Agency
ERNS	Emergency Response Notification System
FEIS	Final Environmental Impact Statement
FHU	Felsberg Holt & Ullevig
FHWA	Federal Highway Administration
HASP	Health and Safety Plan
I-25	Interstate 25
ISA	Initial Site Assessment
LF	Landfill
LUST	Leaking Underground Storage Tank
MESA	Modified Site Assessment
MCL	Maximum Contaminant Level
MMP	Materials Management Plan
NFA	no further action
NPL	National Priorities List
OPS	Colorado Department of Labor and Employment Division of Oil and Public Safety
OSHA	Occupational Safety and Health Administration
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
ROD2	Record of Decision 2
ROW	Right-of-Way
RTP	Regional Transportation Plan
SB	southbound
SWF	Solid Waste Facilities
TPH	Total Petroleum Hydrocarbons
TSD	Treatment, Storage, or Disposal
US 6	6 th Avenue
UST	Underground Storage Tank

VCUP
WB
WQCD

Voluntary Cleanup Programs
westbound
CDPHE Water Quality Control Division

1. PROJECT BACKGROUND

The Project includes modifications to the roadway, interchanges, and bridges along 6th Avenue (US 6) between Sheridan Boulevard and the BNSF Railway in Denver, Colorado. The Colorado Department of Transportation (CDOT) is preparing a Reevaluation and Record of Decision (ROD2) to document the impacts of and mitigation for the Project.

1.1 The Valley Highway Project

The Federal Highway Administration (FHWA) and CDOT prepared a Final Environmental Impact Statement (FEIS) in 2006 and a ROD in 2007 for the Interstate 25 (I-25) Valley Highway Project, located in Denver, Colorado. The Valley Highway Project includes the reconstruction of I-25 and reconfiguration of interchanges from Logan Street to United States Highway (US) 6, US 6 from I-25 to Federal Boulevard, and the crossing of Santa Fe Drive and Kalamath Street at the Consolidated Main Line railroad. The Preferred Alternative, as described in the FEIS, includes the following elements:

- I-25 Mainline: Widening of I-25 to provide a consistent section with four through lanes plus auxiliary lanes in each direction throughout the project area
- I-25/Broadway: Tight diamond interchange
- I-25/Santa Fe Drive: Single point urban interchange with a flyover ramp for northbound Santa Fe Drive to northbound I-25
- I-25/Alameda/Santa Fe/Kalamath: Offset partial urban interchange at I-25 and Alameda Avenue; Santa Fe Drive and Kalamath Street grade separated under the railroad close to their current alignments
- US 6: Ramp improvements at the I-25/US 6 interchange; closure of the Bryant Street interchange; diamond interchange at US 6/Federal Boulevard with slip ramps to Bryant Street and a braided ramp from Federal Boulevard to eastbound US 6; reconstruction of US 6 with collector-distributor roads/auxiliary lanes throughout the project area

The Preferred Alternative of the Valley Highway Project is shown in Figure 1.

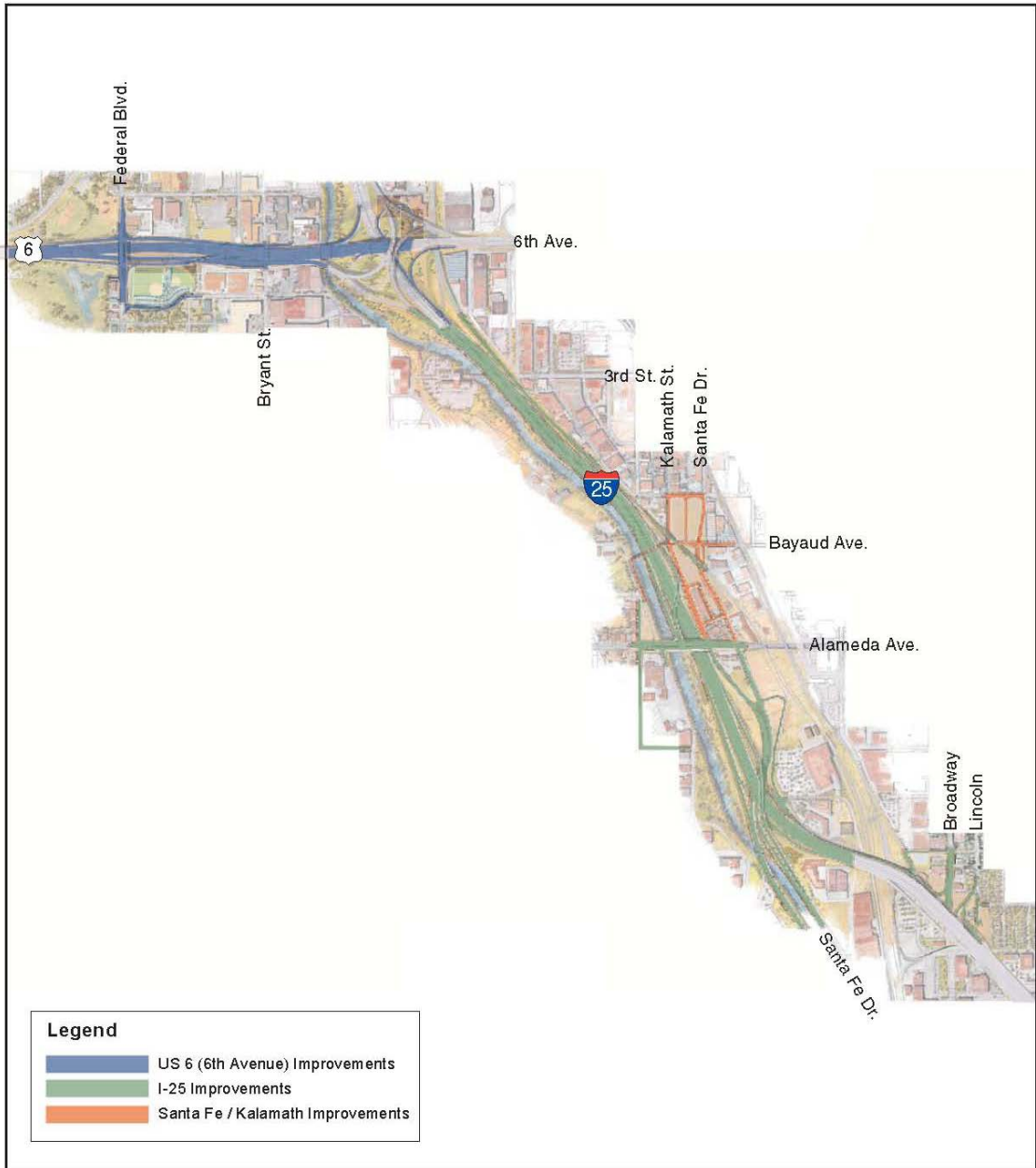


Figure 1: I-25 Valley Highway Project Preferred Alternative

1.2 US 6 Bridges Design Build Project

The Project includes the reconstruction of US 6, reconfiguration of interchanges from Federal Boulevard to I-25, and replacement of the US 6 bridges from Federal Boulevard to the bridge over the BNSF Railway. More specifically, the Project includes the following elements:

- The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway. Three of these bridges are in poor condition and the other two are functionally obsolete. The project would also add a tunnel immediately east of I-25 under US 6 to separate traffic on northbound I-25 from traffic exiting the interstate to travel east and west on US 6.
- Ramp improvements at the I-25/US 6 interchange, closure of the westbound (WB) US 6 to Bryant Street ramp, a diamond interchange at US 6/Federal Boulevard with slip ramps to Bryant Street, and a braided ramp from Federal Boulevard to eastbound (EB) US 6.
- Reconstruction of US 6 with collector-distributor roads/auxiliary lanes from Federal Boulevard to the BNSF Railway bridge structure
- Conversion of 5th Avenue to two-way traffic from Federal Boulevard to Decatur Street
- Widening of Federal Boulevard, from five to six lanes, from 5th to 7th Avenues to accommodate current and future improvements
- Pavement resurfacing of US 6 from Knox Boulevard to Sheridan Boulevard
- In-kind replacement of impacted facilities for Barnum East Park
- A bicycle/pedestrian bridge structure over US 6, connecting Barnum North Park and Barnum Park (also known as Barnum Park South, and herein referred to as Barnum Park South)
- Upgrading portions of the South Platte River Trail to current standards

Figure 2 shows the Project.

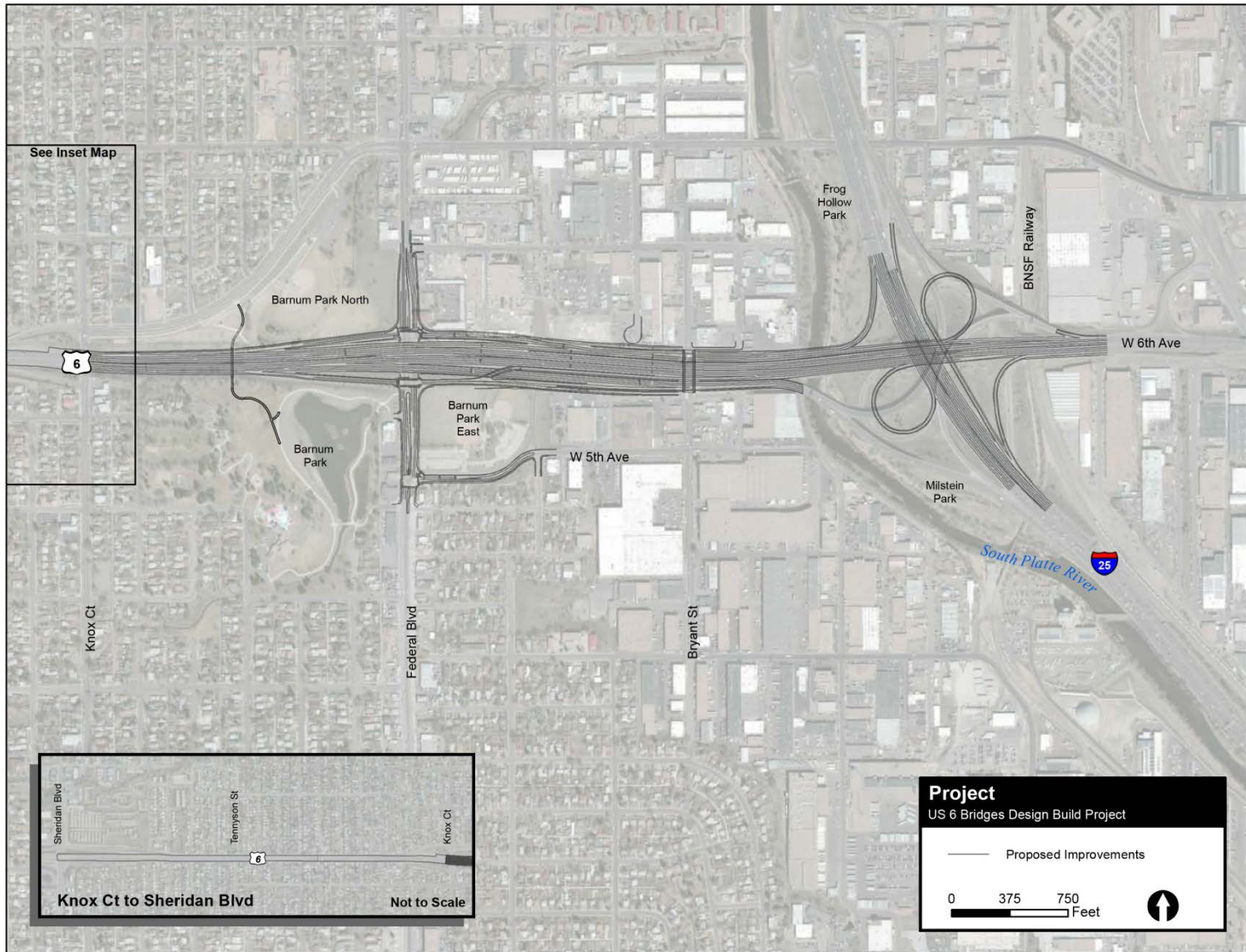


Figure 2: Project

1.3 Relationship of the Valley Highway Project and the US 6 Bridges Design Build Project

At the time of the FEIS, funding had not been identified for the entire Preferred Alternative. Although budget placeholders were included in the 2030 Regional Transportation Plan (RTP), these budgets fell short of the estimated cost of the Preferred Alternative. Therefore, FHWA and CDOT planned for a phased implementation of the Preferred Alternative. These six phases are outlined in Chapter 7 of the FEIS. The ROD2 for the Project will reevaluate part of Phase 1 (the part including the US 6/Federal Boulevard interchange) as presented in the 2007 ROD, and provide a decision for Phase 5 of the Valley Highway Project. The ROD2 for the Project will also address six new, minor project elements, which were not part of the FEIS. Due to the minor environmental significance and nature of these additional components, they are included in the ROD2 and will not affect the independent utility, logical termini, or Preferred Alternative of the Valley Highway Project.

1.3.1 *Phasing of the FEIS Preferred Alternative*

The Project includes elements of two of the six construction phases—Phase 1 and Phase 5—from the Valley Highway Project. A decision on construction Phase 1 of the Valley Highway Project, which included the US 6/Federal Boulevard bridge and ramps, excluding the braided ramp, was made in the 2007 ROD. Figure 3 shows the phases of the Valley Highway Project’s Preferred Alternative and Figure 4 shows the Project Elements and how they relate to the FEIS phasing.

1.3.2 *Additional Project Elements in the Project*

At this time, the Project includes six additional elements that were not included in the FEIS or 2007 ROD:

- Reconstruction of the southbound (SB) I-25 to EB US 6 ramp;
- A bicycle/pedestrian bridge structure over US 6, connecting Barnum North and Barnum South parks;
- Replacement of the US 6 bridge over Bryant Street;
- Replacement of the US 6 bridge over I-25;
- Replacement of the US 6 bridge over the BNSF Railway; and
- Pavement resurfacing of US 6 between Sheridan Boulevard and Knox Court

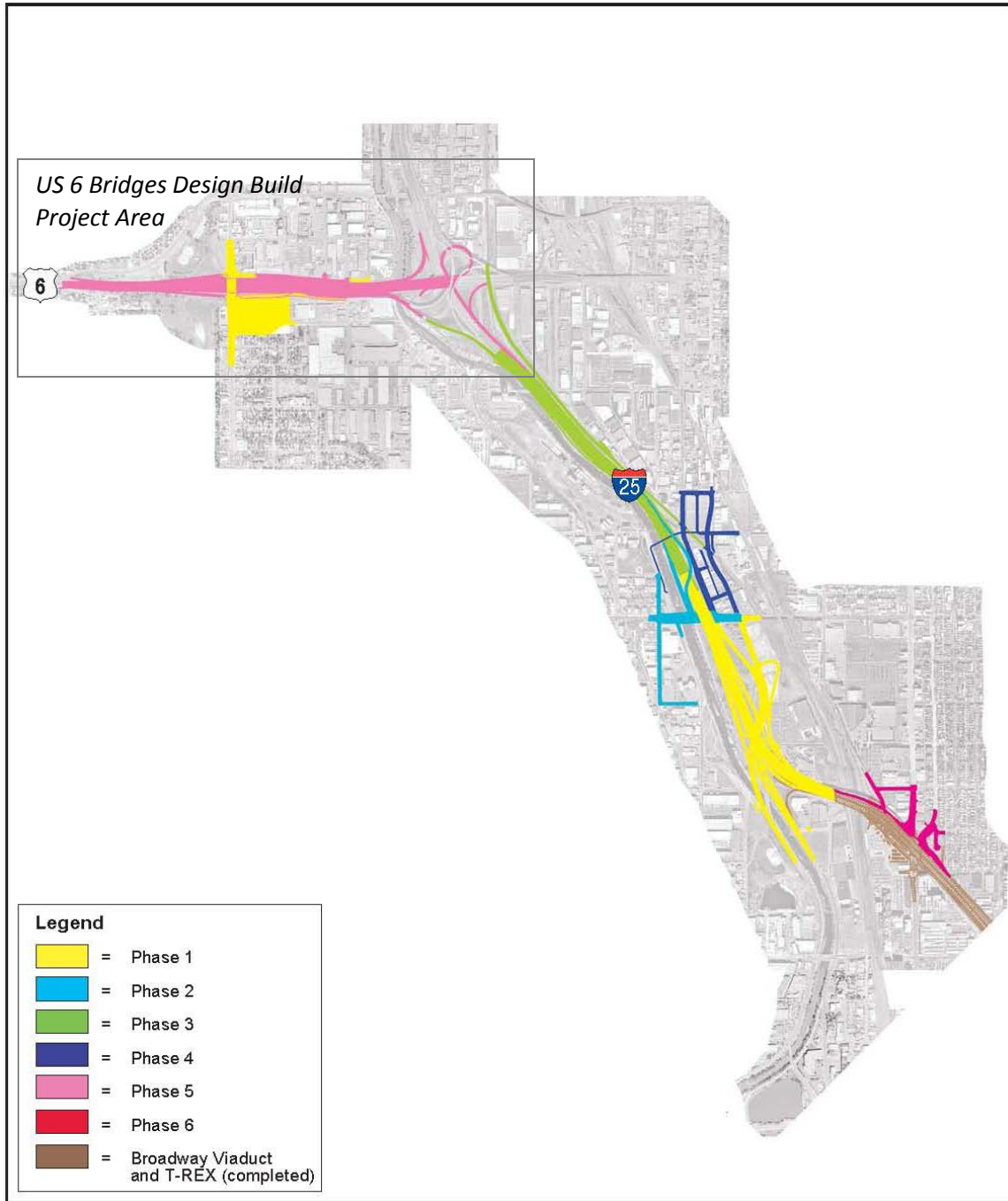


Figure 3: FEIS Phased Implementation of the Preferred Alternative
(source: I-25 Valley Highway FEIS)

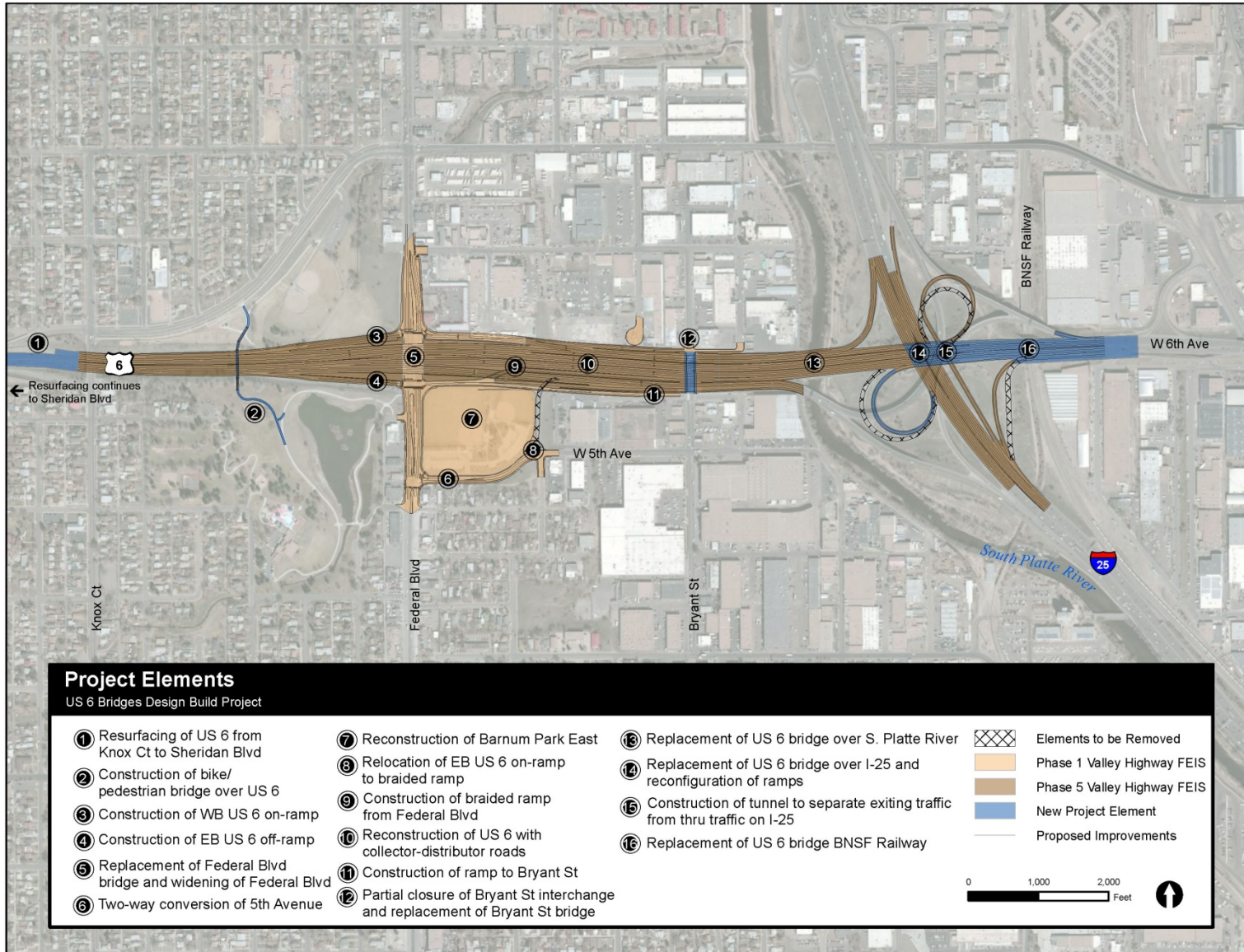


Figure 4: Project Elements

2. HAZARDOUS MATERIALS ANALYSIS

2.1 Purpose

This report discusses the potential for soil and groundwater impacts to be encountered within the Project area. The purpose of this report is to present available environmental assessment data for sites that are in the Project area that could affect worker safety, or result in additional costs due to managing hazardous waste or petroleum impacts. Excavation and drilling activities associated with the Project Preferred Alternative have the potential to encounter soil and groundwater that have been impacted by petroleum products or releases of hazardous substances. Other environmental issues such as asbestos or lead paint may be encountered during the demolition of the existing bridges and other structures.

Several environmental assessments have been conducted to evaluate potential environmental conditions and recognized environmental conditions where releases of hazardous substances may have resulted in a hazardous waste or releases of petroleum products have resulted in the creation of a special waste that may require additional characterization, handling, and proper disposal.

Felsburg Holt & Ullevig (FHU), acting on behalf of the Colorado Department of Transportation (CDOT), conducted a Modified Environmental Site Assessment (MESA) in 2005 for the Valley Highway Project in support of the 2006 Environmental Impact Statement (EIS) and 2007 Record of Decision (2007 ROD). In addition, Pinyon Environmental Engineering Resources, Inc. completed an Initial Site Assessment (ISA) in 2011 near the US 6 Bridge over the BNSF Railway Company tracks (BNSF Railway) to evaluate the potential release of hazardous materials or petroleum products that may have been released into the subsurface. The purpose of this hazardous material analysis was done in support of obtaining environmental clearance for the US 6 Bridges Design Build Project which is part of the overall Valley Highway Project.

The Project is in an area of Denver that has been developed since the late 1800's and early 1900's. Land use in this area has changed over time and has included various commercial and industrial activities along US 6, I-25, and Federal Boulevard. Use of hazardous substances such as solvents and metals at these businesses may have resulted in the release of these substances resulting in a hazardous waste. Underground storage tanks with the potential for releases of petroleum products to impact subsurface soil and groundwater are a concern. Additionally areas outside the Project along the South Platte River were historically used as landfills that were not designed or constructed with liners or other measures that prevent soil and groundwater impacts. These activities have the potential to have adversely impacted soil and groundwater within the Project area; and therefore, could impact the Project elements listed above. A summary of the methodologies and screening procedures implemented for this hazardous materials analysis is described in the following paragraphs.

2.2 Methodology

The methodologies used during the hazardous waste analysis primarily followed the procedures outlined in the 2005 MESA, which were based on the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments E 1527-00 (ASTM, 2000), CDOT guidance, and through consultation with CDOT and CDPHE, as provided in the FEIS. The methodology used the older ASTM E 1527-00 standard rather than the current E 1527-05 standard and EPA's All Appropriate Inquiry (40 CFR Part 312) since there are requirements in the newer standard that would be impractical to complete for a corridor study, and because the primary reason for performing these activities is to identify areas of financial risk rather than qualifying for one of the three Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability protections. The scope of work was intended as an evaluation for construction activities to encounter hazardous waste rather than conducting an ASTM compliant Phase I environmental site assessment, although there are elements that are common to both such as identifying recognized environmental conditions.

ASTM defines a **recognized environmental condition** as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicated an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property". The term includes hazardous substances or petroleum products even under conditions in compliance with laws. Due to the limitations and nature of the 2005 MESA and this hazardous waste analysis, the term **potential environmental condition** has been used to identify properties where recognized conditions may be present but could not be confirmed without additional inspection or investigation, which was beyond the scope of the 2005 MESA and this hazardous waste analysis. Properties identified in this analysis are rated as either a site with **potential environmental conditions**, or **recognized environmental conditions**.

Recognized environmental conditions do not include *de minimis* conditions. ASTM defines these as "conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

Petroleum products are included within the scope of the practice (i.e., conducting environmental site assessments) because they are of concern with respect to many parcels of commercial real estate and current custom and usage to include an inquiry into the presence of petroleum products when doing an environmental site assessment of commercial real estate. Inclusion of petroleum products within the scope of the standard is not based upon the applicability, if any, of CERCLA to petroleum products.

The following actions were conducted in support of the hazardous waste analysis for the Project.

- Reviewed the 2005 MESA, FEIS, 2007 ROD, 2011 ISA, and any other relevant studies/documents prepared for the Project;
- Obtained an updated environmental database search (dated April 30, 2012) of local, state, and federal environmental agency databases within a maximum distance of one mile of the centerline of the Valley Highway Project footprint (e.g., from Federal Boulevard to the US 6 Bridge over the BNSF) as dictated by the CDOT guidance and ASTM Standard E1527-00;
- Reviewed relevant agencies files and/or agency websites of sites identified as having a **potential** and/or **recognized environmental conditions** associated with the Project footprint,
- Reviewed, as deemed necessary, property ownership of the sites with **potential** and/or **recognized environmental conditions** associated with the Project footprint;
- Performed limited site reconnaissance of sites previously identified in the 2005 MESA as sites with **potential** and/or **recognized environmental conditions** associated with the Project footprint;
- Performed limited site reconnaissance of any new sites identified in the 2012 environmental database search of local, state, and federal environmental agency databases with **potential** and/or **recognized environmental conditions** associated with the Project footprint; and;
- Olsson Associates conducted a limited subsurface investigation in December 2011 in conjunction with geotechnical borings advanced by Rocksol and Dakota Drilling of Denver. Olsson Associates conducted a second limited subsurface investigation in July 2012 along the US 6 and Federal Boulevard right-of-ways to assess recognized environmental conditions in these areas. Olsson Associates also conducted a third limited subsurface investigation and groundwater sampling in October 2012 at the 642 Federal Boulevard property.

2.3 Site Reconnaissance

2.3.1 *Windshield Survey*

A site reconnaissance was performed in May 2012 to evaluate environmental conditions of sites with **potential** and/or **recognized environmental conditions** located within and/or adjacent to (within 100 feet of) the US 6 Bridge Project footprint. The site reconnaissance included sites previously identified in the 2005 MESA and any new sites identified in the 2012 environmental database as sites with **potential** and/or **recognized environmental conditions** associated with the US 6 Bridge Project footprint. For locations of sites and areas with environmental conditions refer to Figure 4.13-1 and Figure 4.13-4, respectively, located in the FEIS. As stated in the 2005 MESA, individual sites were typically not physically inspected during the site reconnaissance due to the size of the Project footprint and site access issues. The information regarding environmental conditions of sites obtained during the site reconnaissance was limited to “windshield surveys” and focused on visual areas of chemical and petroleum usage, storage, and discharges.

2.3.2 Limited Subsurface Investigations

A limited subsurface investigation and the installation of temporary groundwater monitoring wells were conducted in December 2011 in conjunction with geotechnical borings advanced by Rocksol. Subsurface soils from a total of six of the geotechnical borings drilled for retaining walls were collected for laboratory analysis. The retaining wall borings were selected since they were advanced to depths where groundwater was expected to be encountered based on a review of the State Engineer's office records for existing water wells in the area. The six retaining wall borings were completed as temporary monitoring wells (RW 1-2, RW2-1, RW 3-2, RW 5-1, RW 6-1, and RW 7-1) and are shown in Figure 5. These wells were installed along the US 6 right-of-way from the interchange with I-25 to approximately the Bryant Street bridge on December 7, December 9, December 12, and December 20, 2011.

Fluid level measurements and field parameters were measured in all six of these wells prior to sampling. Grab groundwater samples were collected from all six monitoring wells on January 4, 2012. A summary of the findings of this limited subsurface investigation is provided in Section 3.2.1.1 of this report.



Figure 5: Subsurface Monitoring Wells December 2011/January 2012

Olsson Associates conducted a limited subsurface investigation in July 2012 in the US 6 and Federal Boulevard right-of-way. This was done to identify areas adjacent to, or within the Project footprint that may have contaminated soils and/or groundwater, potentially impacting the construction of the Project. During the limited subsurface investigation, twelve (12) temporary monitoring holes were drilled along the Project footprint west of Bryant Street with soil and groundwater samples collected at each of the

test hole locations. The location of the test holes are shown below as well as in Figure 1 of the Limited Subsurface Investigation Report, which is provided in Appendix D to this report.

The collected soil and groundwater samples were submitted to a laboratory for analysis and were tested for petroleum hydrocarbon constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Method SW8260, total concentrations of the eight Resource Conservation and Recovery Act (RCRA) Metals by SW 6020/SW 7471A, and percent moisture by SW 3550. A summary of the findings of the limited subsurface investigation is provided in Section 3.2.1.1 of this report.



Figure 6: Subsurface Monitoring Wells June/July 2012

Due to concerns raised by the findings at well MH-11, an additional limited subsurface investigation was conducted on October 16, 2012 at the vacant property formerly occupied by the Austria Motors, Inc. dealership and automotive repair, located at 642 Federal Boulevard. This site was a former leaking underground storage tank (LUST) site that received closure following site investigation and remediation. A release was reported to the Colorado Department of Labor and Employment, Division of Oil and Public Safety (OPS) in October 1997 and assigned event #6193. The OPS issued a no further action (NFA) letter on July 7, 1999 following completion of the site remediation.

This limited subsurface investigation was conducted on October 16, 2012 and included the installation of three soil borings completed as temporary monitoring wells identified as MH-13, MH-14, and MH-15 as shown on Figure 7. These wells were drilled in locations suggested by CDOT to assess the nature and extent of impacted soil and groundwater discovered in temporary monitoring well MH-11 which was installed on the northwest side of the property in August 2012. The soil samples submitted for laboratory analysis were collected from the interval that exhibited staining, hydrocarbon odor, the

highest headspace PID readings, the interval at or above the water table, and from the total depth of the well boring. Olsson personnel logged the borings to record the lithologies encountered, the depth to groundwater, and observed staining or odors that suggested petroleum hydrocarbon or chemical impacts. Copies of the lithologic logs for each boring are presented in Appendix F. A summary of the findings of this limited subsurface investigation is provided in Section 3.2.1.1 of this report.



Figure 7: Monitoring Well locations at 642 Federal Boulevard

2.4 Agency Database Review

A review of local, state, and federal database records for information relating to the Project footprint was conducted. The approximate minimum search distance for each database is identified in Table 1, which lists both ASTM guidance as well as the search distances that applied to the work in the FEIS and 2007 ROD. The approximate minimum search distance was performed according to ASTM Standard E1527-00 unless expanded according to CDOT guidance.

Table 1. Database Descriptions and Minimum Search Distances

Database	ASTM Approximate Minimum Search Distance (mile)	CDOT Approximate Minimum Search Distance (mile)*	Radius Searched (mile)
Federal National Priorities List (NPL) EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program.	1.0	-	1.0
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Compilation by the EPA of sites at which the potential exists for contamination originating from on-site hazardous substance storage or disposal. Sites designated as "NFRAP" indicate that No Further Remedial Action is Planned.	Site	0.25	0.25
Federal Resource Conservation and Recovery Act (RCRA) treatment, storage, or disposal (TSD) facilities RCRA permitted TSD facilities	1.0	1.0	1.0
Federal Resource Conservation and Recovery Information System (RCRIS) Facilities that are regulated based on current hazardous waste generation management activities.	0.5	1.0	1.0
Federal RCRA Corrective Action (CORRACTS) facilities Sites identified as needing Corrective Action after a release of a hazardous waste or constituent into the environment from a RCRA facility.	0.5	1.0	1.0
Federal/State Emergency Response Notification System (ERNS) List Database of public complaints and reports of unverified releases or incidents.	Site and Adjoining Properties	0.25	0.25
State Voluntary Cleanup Programs (VCUP) Sites being addressed under the Colorado Department of Public Health and Environment (CDPHE) Voluntary Cleanup Program (VCUP).	1.0	1.0	1.0
State Solid Waste Disposal (SWF) and/or Landfill (LF) sites Inventory of solid waste and landfill facilities.	0.5	1.0	1.0
State Historical Landfills sites Inactive landfill sites (including sites known to generate methane) and illegal dump sites.	0.5	1.0	1.0
State Above Ground Storage Tank (AST)/Underground Storage Tank (UST) List of sites that registered the presence of ASTs/USTs with the Colorado Department of Labor and Employment Division of Oil and Public Safety (OPS)	Site and Adjoining Properties	0.25	0.25
State Leaking Underground Storage Tanks (LUST) List of closed or unremediated reported LUSTs.	0.5	1.0	1.0

Source: 2005 MESA and FEIS

*CDOT search distance based on methodology at the time of the FEIS and 2007 ROD

3. HAZARDOUS MATERIALS FINDINGS AND RECOMMENDATIONS ANALYSIS OF US 6 PROJECT FOOTPRINT

3.1 Summary of Hazardous Materials Analysis per the 2005 MESA, FEIS, and 2011 ISA

3.1.1 Findings

The 2005 MESA and FEIS identified sixteen (16) properties (three former landfill locations) along the Project footprint as sites with **potential** and **recognized environmental conditions**. These sites included Underground Storage Tank (UST) sites, Leaking Underground Storage Tank (LUST) sites, Resource Conservation and Recovery Act (RCRA) generators, Emergency Response Notification System (ERNS) sites, and Solid Waste Facilities/Landfill Sites (SWF/LF). Several of the identified sites and/or properties along the Project footprint are known or suspected to have, or have had, contaminated soils and/or groundwater as a result of releases of petroleum based products, former land use of area, and/or releases of various other hazardous material substances. The existing and/or suspected environmental site conditions for each of the identified sites are summarized in Table 2.

The 2011 ISA analyzed nine sites with **potential** and **recognized environmental conditions** located in the area of the Project over the BNSF Railroad (refer to Figure 1 and 2 in the 2011 ISA). Most sites were previously identified in the 2005 MESA. These sites included the following:

- | | |
|---|--|
| • Ppg Industries Inc. 590 Quivas Street | RCRA-NLR, UST; |
| • Unknown 1701 W. 6 th Avenue | SPILLS; |
| • Conrads Inc. 595 Quivas Street | UST, LUST; |
| • Dupont De Nemours and Co 555 Quivas Street | RCRA-NLR; |
| • Incident near 4 th and Navajo Streets | ERNS; |
| • Rio Grande Co/Unknown 5 th and Osage Streets | LUST; |
| • Landfill 490 Osage Street | Landfill with unknown use or contents; |
| • Unknown 500 Quivas Street | SPILLS; and |
| • Commercial Building 501 Raritan Way | USTs permanently closed. |

Based on the 2011 ISA, all of the above listed sites were identified as sites that have the potential to impact the Project over the BNSF Railroad.

3.1.2 Additional Issues and Findings

ASTM E 1527-00 lists several non-scope considerations that persons may want to assess in connection with real property transactions, but are not included under the standard. These non-scope issues include asbestos containing building materials, radon, lead-based paint, lead in drinking water, regulatory compliance, industrial hygiene, health and safety, indoor air quality, biological agents, mold, and vapor intrusion. Some of these non-scope issues are included as separate sections of the FEIS.

Pinyon Environmental collected four lead and one suspect asbestos containing material sample from the four paint colors observed on the BNSF bridge and from the caulking observed on the south bridge piers,

respectively. Three paint samples collected from the BNSF bridge (F-16-EJ) were found to contain lead. The brown paint contained lead at 7.246% and the gray paint contained lead at 2.693%. These levels exceed the US Environmental Protection Agency (EPA) minimum lead by weight content, 0.5% lead by weight (EPA 1992); and are therefore considered to be lead-based. The silver paint sample contained 0.07% lead, which is below the EPA standard for lead-based paint. No lead was found in the red paint sample collected from the bridge. Asbestos was not found in the caulking collected from the south bridge piers; however, based on the number of samples, this screening should not be considered comprehensive.

The ISA recommends that the selected contractor be notified that two of the four paint colors on the bridge are painted with lead-based paint and should avoid sanding, cutting, burning, or otherwise causing the release of lead from the paint on the bridge components. All painted bridge components should be removed and recycled in accordance with CDOT Specification 250.04.

The 2011 ISA also noted the presence of a transient population camp adjacent to the BNSF Railway under the US 6 Bridge. The Project should include a Health and Safety Plan (HASP), which should provide considerations for potential contamination found in this area.

Table 2. Summary of Sites along US 6 with Potential and Recognized Environmental Conditions identified in the 2005 MESA and FEIS

Type of Environmental Conditions	Map ID Reported in 2003 EDR	Property Name(s) and Address	Database	Environmental Conditions	Potential Environmental Concern Ranking
Recognized	86	In Alley Dumpster Behind old TRW Bldg. 445 Federal BLVD. Denver, CO 80204	ERNS	ERNS - Hazardous material found in dumpster in alley behind building. No additional information obtained.	Medium
Recognized	86	Sound on Wheels (former KOK Auto Repair and Body Shop /Yamaguchi Property) 450 Federal BLVD. Denver, CO 80204	FINDS LUST UST	Automotive repair and supply facility. Former gas station with reported UST and LUST. Known petroleum impacted soil and groundwater on the property.	Medium
Potential	86	Phillips 66/Pester Marketing Company/1 st STOP #1207 438 Federal BLVD. Denver, CO 80204	FINDS UST	Gas station with USTs currently in use on property. No leaks or spills reported. Unknown site conditions (located adjacent to LUST site).	Low
Potential	51	Denver Public Schools Hilltop Bus Terminal 2800/2929 W. 7 th Avenue Denver, CO 80204	UST LUST	Denver Public Schools Hilltop Bus Terminal. USTs reported on site. No leaks or spills reported. Unknown material handling and disposal practices.	Site was not ranked
Recognized	87	PCB-Capacitor Cleanup 5 th and Decatur Street	SPILLS	CERCLIS site. RCRA Small Quantity Generator – no reported violations. No additional information available and site conditions are unknown.	High
Potential	81	Bryant Street Phillip 510 Bryant Street Denver, CO 80204	UST	Gas station with USTs currently in use on property. No leaks or spills reported. Unknown site conditions (located adjacent to LUST site).	Low
Recognized	81	Ryder Truck Rental 0155 550 Bryant Street Bryant Street Denver, CO 80204	RCRA-SQG FINDS LUST UST	Rental truck facility. FINDS site. RCRA Conditionally Exempt Small Quantity Generator – no violations reported. UST and LUST site. Known petroleum impacted soil and groundwater on the property.	Medium
Recognized	54	Southbound Ramp 6 th Avenue to I-25	ERNS	ERNS - Diesel tanker overturned and fell into South Platte River. Residual soil and groundwater contamination may be present. No additional information obtained.	Site was not ranked
Potential	N/A	Proctor Production/Fuji Photo Film USA INC /Associated Stationer INC 501 Raritan Way Denver, CO 80204	RCRANLR FINDS UST	Commercial building. USTs permanently closed at property. No leaks or spills reported. Unknown site conditions.	Site was not ranked

Type of Environmental Conditions	Map ID Reported in 2003 EDR	Property Name(s) and Address	Database	Environmental Conditions	Potential Environmental Concern Ranking
Recognized	75	Conrads Inc. (Warehouse)/Kenny Electrical Service 595 Quivas Street Denver, CO 80204	LUST UST	Commercial building. Former location of Conrads Inc. UST and LUST site. Residual petroleum impacted soil may be located on property.	Medium
Recognized	75	Sears Roebuck & Co. 1701 W. US 6 Denver, CO 80204 and 701 Osage Street Denver, CO 80219	LUST UST ERNS	Warehouse. UST, LUST, and ERNS site. Known petroleum impacted soil and groundwater on site.	Medium
Recognized	76	UPRR Burnham Yard 6 th and Osage Denver, CO 80204	ERNS	US 6 and Osage Street. ERNS site. Known petroleum impacted groundwater in area and vicinity of US6/I-25 interchange.	High
Recognized	80	Landfill 500 Julian Street Denver, CO 80204	SWF/LF	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane).	High
Recognized	81	Landfill 500 Alcott Street Denver, CO 80204	SWF/LF	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane).	High
Recognized	83	Landfill(California Expanded Metals Co./Champion Fence Co./Southwest Properties 490 Osage Street Denver, CO 80204	SWF/LF LUST FINDS TRIS	Unknown use or contents. Unknown site conditions (potential groundwater contamination).	High
Recognized	83	Rio Grand Co. Residential Products Div. 500 Osage Street Denver, CO 80204	FINDS UST	Manufacturing facility. FINDS, UST and LUST site. Related to the US 6 and Osage UPRR-Burnham Yard ERNS site. Known petroleum impacted groundwater and soil in area and vicinity of US6/I-25 interchange.	High

Source: 2005 MESA and FEIS

3.1.3 **Recommendations**

Based on the findings presented in the 2005 MESA and FEIS and given the variety of industrial and commercial uses and the long history of use, soil and groundwater throughout the Project area have the potential to be impacted. Sites with **potential** and **recognized environmental conditions** should be evaluated prior to the acquisition of right-of-way (ROW). The recommended ROW acquisition process for sites with potential and recognized environmental conditions is a three step process: *Initial Site Assessment (ISA), Phase I Environmental Site Assessment (Phase I), and Remedial Investigation/Feasibility Study (RI/FS)* (see 2005 MESA or 2006 FEIS for explanation of an ISA, Phase I, and RI/FS). Hereafter the RI/FS will be referred to as a Phase II. Table 3 summarizes sites with potential and recognized environmental conditions and the recommended actions per the 2005 MESA and FEIS. It is important to note that a Phase I or Phase II may be recommended based on the findings of an ISA. Properties where a Phase I or Phase II are recommended are identified in Table 3. In addition, a Materials Management Plan (MMP) is recommended as well as a HASP, which is required by section 250.03 of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011). CDOT Region 6 requests that the MMP and HASP shall be reviewed by the CDOT Regional Environmental Manager.

The 2011 ISA also recommends that subsurface investigations, including collection of soil and groundwater samples, be conducted to evaluate the potential to encounter contaminated soil and groundwater near the US 6 Bridge over the BNSF Railroad. The Project design includes excavation in the area of the tunnel immediately east of I-25 under US 6 to separate traffic on northbound I-25 from traffic exiting the interstate to travel east and west on US 6. Though the Project describes the NB I-25 to WB US 6 off-ramp as a tunnel, it is a roadway structure slightly depressed to fit adjacent to the I-25 mainline underneath US 6, and is not a fully underground structure. Since groundwater is expected to be shallow in this area, construction of this tunnel will likely be part of a Clean Water Act Section 402 Construction Dewatering Permit, or Individual Construction Dewatering Permit if contaminated groundwater is expected to be encountered.

Both the tunnel and the bridge over the BNSF Railroad are within CDOT right-of-way and CDOT is undertaking a Phase II investigation in both of these areas to identify the presence and extent of and hazardous materials. CDOT is expecting to be able to provide the results of these investigations in early 2013.

[The Phase II investigation discussed above has been completed and is included in the appendices as: RMC Consultants. January 2013. Hazardous Material Site Investigation. U.S. Highway 6 Bridges at Interstate 25 and BNSF Railroad. RMC Consultants Project E12-023-154.]

Table 3. Summary of Recommendations for Sites Identified along US 6 per the 2005 MESA and FEIS

Type of Environmental Conditions	Property Name(s) and Address	Environmental Conditions	Recommendations			
			ISA ¹	Phase I ²	PHASE II ³	H&S ⁴
Recognized	In Alley Dumpster Behind old TRW Bldg. 445 Federal BLVD. Denver, CO 80204	ERNS – Hazardous material found in dumpster in alley behind building. No additional information obtained.				x
Recognized	Sound on Wheels (former KOK Auto Repair and Body Shop /Yamaguchi Property) 450 Federal BLVD. Denver, CO 80204	Automotive repair and supply facility. Former gas station with reported UST and LUST. Known petroleum impacted soil and groundwater on the property.	x	x		x
Potential	Phillips 66/Pester Marketing Company/1 st STOP #1207 438 Federal BLVD. Denver, CO 80204	Gas station with USTs currently in use on property. No leaks or spills reported. Unknown site conditions (located adjacent to LUST site).	x			
Potential	Denver Public Schools Hilltop Bus Terminal 2800/2929 W. 7 th Avenue Denver, CO 80204	Denver Public Schools Hilltop Bus Terminal. USTs reported on site. No leaks or spills reported. Unknown material handling and disposal practices.	x	x		
Recognized	PCB-Capacitor Cleanup 5 th and Decatur Street	CERCLIS site. RCRA Small Quantity Generator – no reported violations. No additional information available and site conditions are unknown.	x	x		x
Potential	Bryant Street Phillip 510 Bryant Street Denver, CO 80204	Gas station with USTs currently in use on property. No leaks or spills reported. Unknown site conditions (located adjacent to LUST site).	x			
Recognized	Ryder Truck Rental 0155 550 Bryant Street Bryant Street Denver, CO 80204	Rental truck facility. FINDS site. RCRA Conditionally Exempt Small Quantity Generator – no violations reported. UST and LUST site. Known petroleum impacted soil and groundwater on the property.	x			x
Recognized	Southbound Ramp 6 th Avenue to I-25	ERNS - Diesel tanker overturned and fell into South Platte River. Residual soil and groundwater contamination may be present. No additional information obtained.				x
Potential	Proctor Production/Fuji Photo Film USA INC /Associated Stationer INC 501 Raritan Way Denver, CO 80204	Commercial building. USTs permanently closed at property. No leaks or spills reported. Unknown site conditions.	x			

Type of Environmental Conditions	Property Name(s) and Address	Environmental Conditions	Recommendations			
			ISA ¹	Phase I ²	PHASE II ³	H&S ⁴
Recognized	Conrads Inc. (Warehouse)/Kenny Electrical Service 595 Quivas Street Denver, CO 80204	Commercial building. Former location of Conrads Inc. UST and LUST site. Residual petroleum impacted soil may be located on property.	x			x
Recognized	Sears Roebuck & Co. 1701 W. US 6 Denver, CO 80204 and 701 Osage Street Denver, CO 80219	Warehouse. UST, LUST, and ERNS site. Known petroleum impacted soil and groundwater on site.	x	x		x
Recognized	UPRR Burnham Yard 6 th and Osage Denver, CO 80204	US 6 and Osage Street. ERNS site. Known petroleum impacted groundwater in area and vicinity of US6/I-25 interchange.	x	x		x
Recognized	Landfill 500 Julian Street Denver, CO 80204	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane).		x		x
Recognized	Landfill 500 Alcott Street Denver, CO 80204	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane).		x		x
Recognized	Landfill[California Expanded Metals Co./Champion Fence Co./Southwest Properties 490 Osage Street Denver, CO 80204	Unknown use or contents. Unknown site conditions (potential groundwater contamination).		x		x
Recognized	Rio Grand Co. Residential Products Div. 500 Osage Street Denver, CO 80204	Manufacturing facility. FINDS, UST and LUST site. Related to the US 6 and Osage UPRR-Burnham Yard ERNS site. Known petroleum impacted groundwater and soil in area and vicinity of US6/I-25 interchange.	x	x		x

Source: 2005 MESA and FEIS

⁽¹⁾ISA = Initial Site Assessment recommended

⁽²⁾Phase I = Phase I Environmental Site Assessment recommended

⁽³⁾PHASE II = Phase II Environmental Site Assessment recommended

⁽⁴⁾H&S = Materials Handling and Health and Safety Plans recommended

3.2 Summary of 2012 Hazardous Materials Analysis

3.2.1 Findings

The 2012 hazardous materials analysis re-evaluated the sites with **potential** and **recognized environmental conditions** along the Project Footprint that were identified in the 2005 MESA. In addition, the 2012 hazardous materials analysis evaluated any new sites along the Project Footprint that have been identified as sites with **potential** and **recognized environmental conditions** since the completion of the 2005 MESA. Furthermore, the findings of the limited subsurface investigations conducted in July 2012 and October 2012 were also reviewed and incorporated into the 2012 hazardous materials analysis.

3.2.1.1 Summary of Findings of the Limited Subsurface Investigation

The following paragraphs provide a brief summary of the findings in the limited subsurface investigation conducted in July 2012 and October 2012. The letter reports prepared for these investigations provide detailed discussions of the results and conclusions of in the limited subsurface investigation (see Appendix D and F to this report).

3.2.1.1.1 Volatile Organic Compounds

During the investigations done in July 2012, BTEX constituents in soil and groundwater, at detectable concentrations, were not encountered in 11 of the 12 temporary monitoring wells installed. MH-11, located on the CDOT property (formerly operated as Austria Motors, Inc. at 642 Federal Boulevard) north and west of the Days Inn motel, was the only monitoring well where petroleum hydrocarbon impacts were identified. The laboratory results for the soil sample collected at 30 feet below ground surface (bgs) detected a benzene concentration of 1.70 milligrams per kilogram (mg/kg), which is above the Colorado Department of Public Health and Environment (CDPHE) Soil Cleanup Standards (July 2011) for residential soil (1.2 mg/kg) and worker clean up (1.6 mg/kg) as well as the groundwater protection benzene standard of 0.17 mg/kg. Benzene is a compound of concern due to potential migration to groundwater (OA 2012). Concentrations of toluene, ethylbenzene, and total xylenes were also detected in the soil sample collected at 30 feet bgs; however, the concentrations were below the CDPHE soil and groundwater clean-up standards. In soil samples collected from MH-11 at 20 feet, toluene was detected at 11 µg/kg, and toluene was estimated at a concentration of 3.9 µg/kg "J" in the sample collected from 39 feet. Both are well below the soil standards for toluene. The laboratory results for the groundwater sample collected at approximately 27.34 bgs detected a benzene concentration of 0.2 milligrams per liter (mg/L), which is above the CDPHE/Water Quality Control Division (WQCD) maximum contaminant level (MCL) of 0.005 mg/L. Concentrations of toluene, ethylbenzene, and total xylenes were also detected in the MH-11 sample, but were reported at concentrations that did not exceed their respective MCLs. Benzene is a compound of concern in groundwater since it exceeds the MCL (OA 2012).

During the subsequent investigations in October 2012, the laboratory analytical results reported that benzene was not detected at or above the laboratory reporting limit of 5 micrograms per kilogram (µg/Kg) in any of the six soil samples collected from the monitoring well soil borings installed during the

October 15, 2012 limited subsurface investigation. Toluene, ethylbenzene, and total xylenes were not detected at or above the laboratory reporting limit in any of the six soil samples.

3.2.1.1.2 RCRA Metals

The soil and groundwater samples collected at the 12 monitoring hole locations in July 2012 and October 2012 were also analyzed for concentrations of eight RCRA metals that included arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Arsenic was the primary RCRA metal in the collected soil samples reported to be above the Colorado Soil Evaluation Values (CSEV) Table residential and worker protection levels as based on human health risks (see Appendix D Table 2 and Appendix F to this report). In addition, arsenic, barium, cadmium, chromium, lead, and selenium were detected in several of the groundwater samples, sometimes exceeding the Colorado Basic Groundwater Standards (see Appendix D Table 5 and Appendix F to this report).

The elevated total metals concentrations of arsenic, barium, cadmium, chromium, and selenium could pose a problem for disposal if groundwater is encountered during excavation, and if excavation dewatering is required (OA 2012).

3.2.1.1.3 Limited Subsurface Investigation Conclusions

Two limited subsurface investigations have been conducted on the west side of I-25 along the north and south right-of-ways of US 6 to Bryant Street and Federal Boulevard. These limited subsurface investigations included the collection of soil and groundwater samples to assess whether there were hazardous waste or petroleum impacts resulting from past land use. The soil and groundwater results do not indicate the presence of hazardous material or petroleum hydrocarbon impacts. One caveat to this is that the metals concentrations in soil and groundwater may be the result of natural background, anthropogenic activities, or a combination of the two. Certain metals such as arsenic or selenium could impact site activities if it becomes necessary to obtain a groundwater discharge permit in order to dewater excavations. If these metals are elevated above surface water standards, it may be necessary to treat the water prior to discharge or to dispose of the water through a commercial sanitary sewer system.

3.2.1.2 LUST Sites within Project Footprint

The acquisition of right-of-way will be required from four LUST sites (former and active) within the Project Footprint. These sites (Legend Numbers 1, 3, 16, and 17) are shown in Figure 8 ROW / Hazmat Conditions and listed in Table 4. One site, Legend Number 2, is not a LUST site; however, it is discussed in the following paragraphs since it may have been impacted by an adjacent LUST site (Legend Number 3).

3.2.1.3 Environmental Concern Ranking Methodology

Similar to the methodology used in the 2005 MESA for the FEIS findings, the environmental concern ranking listed in Table 4 was developed based on a sites proximity to the project, the expected groundwater flow direction, whether the property needs to be acquired by the project and the known history of hazardous materials on the site. High risk sites are those with known hazardous materials that are likely to impact the project because the property needs to be acquired or is likely to impact project

construction processes since contaminated groundwater may be encountered. Medium risk sites have known hazardous materials releases which have either been remediated and closed or are not likely to be encountered during project construction based on the depth of contamination. Low risk sites are listed in the Environmental Database Report but have no known hazardous material regulatory or compliance issues.

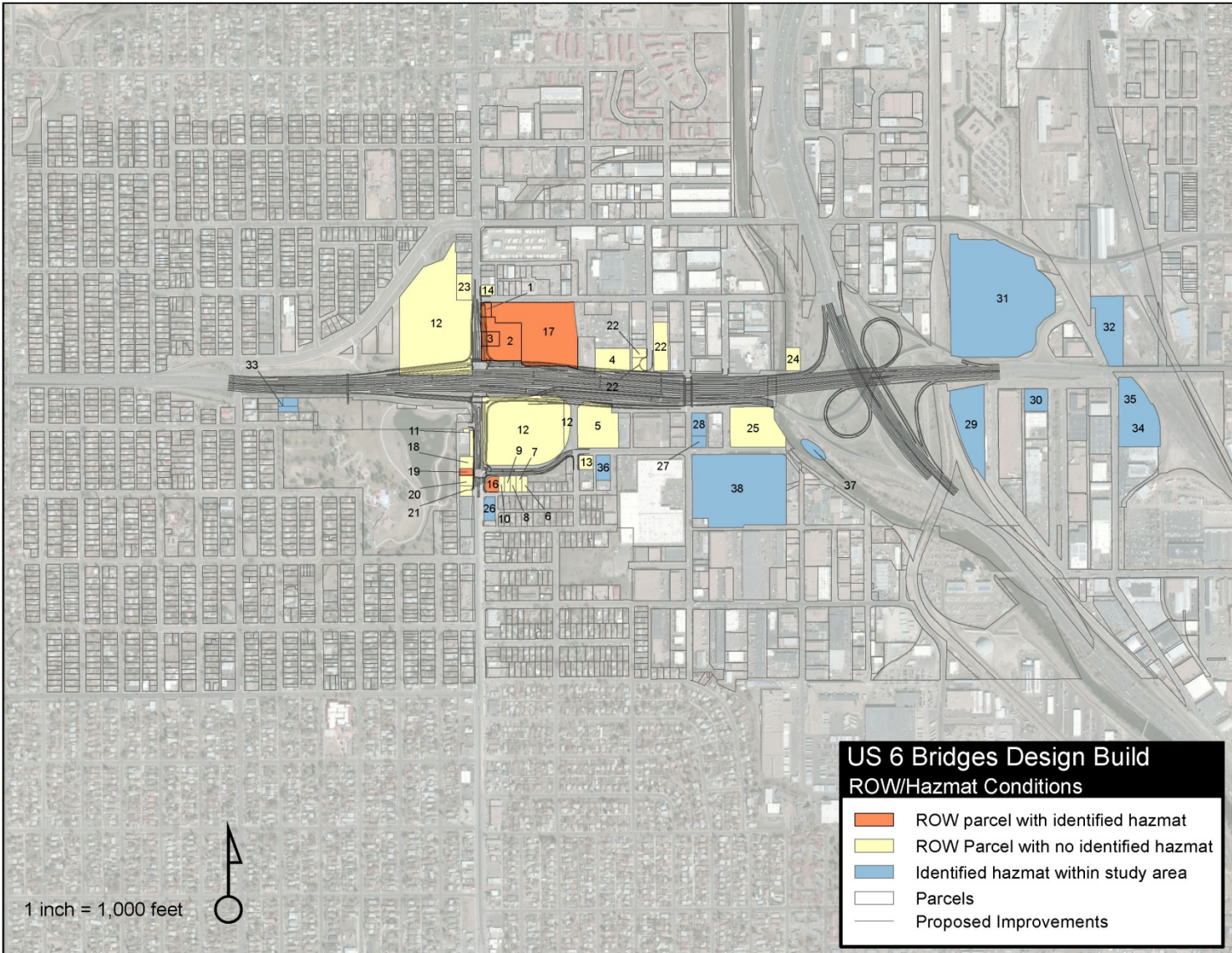


Figure 8: ROW / Hazmat Conditions

Table 4. Summary of Recommendations for Sites Identified along US 6 per the 2012 Hazardous Materials Analysis

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
1	Recognized	200	Fergs Enterprise, LLC, a Colorado limited liability company /Marco's Auto Tech 690 Federal BLVD. Denver, CO 80204	Entire parcel. A 510 sf office building, four garages used as automotive service bays (the total size of the building and bays is 2,407 sf) and 2 abandoned underground petroleum storage tanks that have been filled with concrete, a cell tower, and associated appurtenances located on 620 Federal Blvd, Denver CO 80204. Sheet No. 5.04	Confirmed release reported in the LUST database on 2/15/2000. Two USTs permanently closed on 6/15/2000. Closure letter sent on 8/15/2000. CDOT completed and ISA on 4/1/11. Groundwater flows to the northeast, away from Project footprint.	Medium	ISA Materials Handling and Health and Safety Plans recommended	ROW acquisition required from a site that is listed in the LUST database.
2	Recognized	102, 102A, TE-102, TE-102A, TE-102B, TE-103, PE-202.	U.S. Motels Federal, LLC	Parking lot/ asphalt Lobby/administration building used as part of the Day's Inn Motel at 620 Federal Boulevard, Denver CO 80204. Sheet No.5.04	This site was not identified in any of the environmental databases. Groundwater flows to the northeast, away from Project footprint.	Low	Materials Handling and Health and Safety Plans recommended	The results of the October 2012 subsurface investigation at the adjacent Site 3 do not indicate potential contamination migration so no additional investigation is necessary at Site 2.

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
3	Recognized	AP-103 103-RM TE-103	Colorado Department of Transportation/Austria Motors 642 Federal BLVD. Denver, CO 80204	Assumed to be sliver parallel to US 6. 50' x 300'. Area appears to be trees/weeds/dirt and asphalt. Sheet Nos. 5.08 and 5.11	In October 2012, the laboratory reported concentrations of total metals in the soil samples which were below the CDPHE HMWMD July 2011 CSEV Table values. Therefore, the metals do not appear to be compounds of concern at the site. Concentrations of arsenic, barium, chromium, lead and selenium were detected in samples from MH-11, MH-13, and MH-15. Groundwater flows to the northeast, away from Project footprint.	Medium	Materials Handling and Health and Safety Plan recommended	Additional subsurface investigations was conducted in October 2012 to further evaluate level/area of soil and groundwater contamination discovered in July 2012. The results of the October 2012 investigation indicate that the values of several of the metals reported in the MH-15 groundwater sample could pose a problem for disposal if groundwater is encountered during excavation, and if excavation dewatering is required for construction. However, encountering these soils may not be likely considering the depths.
4		104	Colorado Department of Transportation 2727 W. 6th Avenue, Denver, Colorado 80204	Sheet No. 6.01	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
5		205 Rev. 205A Rev. PE-205	5th Avenue Properties LTD, Liability Co.	50' x 400' area east of Barnum Park East. 40' x 250' sliver south of US 6 and parallel to the highway. Area of take is barren – trees/weeds/dirt. Sheet Nos. 5.09 and 5.10	None	No	N/A	
6		206, TE-206	John Orlando	Area to be Acquired – < 5' x 50' sliver at front of property. Temporary Easement – 10' x 50' sliver adjacent to acquisition. Area is barren – trees/weeds/dirt. Sheet No. 5.07	None	No	N/A	
7		207, TE-207, TE-207A	Dina Hinojos and Nancy Jacinto	A garage located on 2929 West Short Place, Denver, CO 80204 Area to be Acquired – < 5' x 50' sliver at front of property. Temporary Easement – 40' x 50' area adjacent to acquisition. Residential property. Area has garage and debris. Sheet No. 5.07	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
8		208, TE-208	Juan Luna	<p>Area to be Acquired – < 5' x 50' sliver at front of property.</p> <p>Temporary Easement – 10' x 50' sliver adjacent to acquisition.</p> <p>Area is barren – trees/weeds/dirt.</p> <p>Sheet No. 5.07</p>	No	No	N/A	
9		209, TE-209, TE-209A	Thomas Harvey	<p>Area to be Acquired – < 5' x 50' sliver at front of property.</p> <p>Temporary Easement – 20' x 50' sliver adjacent to acquisition.</p> <p>Area is barren – trees/weeds/dirt. Looks there may be impact to a small shed.</p> <p>Sheet No. 5.07</p>	None	No	N/A	
10		210, TE-210	Jim Zakhem	<p>Area to be Acquired – < 5' x 50' sliver at front of property.</p> <p>Temporary Easement – 10' x 50' sliver adjacent to acquisition.</p> <p>Area is barren dirt and asphalt.</p> <p>Sheet No. 5.07</p>	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
11		211, TE-211	Young J. Kwon and Lily Kwon	<p>Area to be Acquired – < 5' x 125' sliver at front of property along Federal Blvd.</p> <p>Temporary Easement – 15' x 50' sliver adjacent to acquisition.</p> <p>Area is asphalt.</p> <p>Sheet No. 5.07</p>	None	No	N/A	
12		212 Rev., 212A, 212B Rev., 212C, PE-212, PE-212A	City and County of Denver	<p>Area to be Acquired – 25' – 50" x 800' area in Barnum Park east along Federal and US 6.</p> <p>Permanent Easement – 15' x 400' area adjacent to acquisition along US 6.</p> <p>Area is grass and trees.</p> <p>Sheet Nos. 5.06 and 5.07</p>	None	No	N/A	
13		TE-213	Vassilios & Lynne L. Sirolaidis	<p>Temporary Easement - 20' – 25' x 150' area in the southeast corner of West 5th Avenue and Decatur.</p> <p>Area is asphalt.</p> <p>Sheet No. 5.09</p>	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
14		TE-214	M&M Hi Performance Car Wash	Temporary Easement - 10' x 200' area on the northeast corner of West 7 th Avenue and Federal Blvd. Area is asphalt. Sheet No 6.01	None	No	N/A	
15		PE-216	Edward A. Robinson & Marcia K. Robinson	Permanent Easement – 25'-30' x 220' area along US 6. Area is asphalt. Semi box trailers on property. Sheet No. 5.12	None	No	N/A	
16	Recognized	TE-217	Charles S. Yamaguchi and Chiseko Yamaguchi Sound on Wheels (former KOK Auto Repair and Body Shop /Yamaguchi Property) 450 Federal BLVD. Denver, CO 80204	Temporary Easement – 10' x 200' sliver on the southeast corner of West 5 th Avenue and Federal. Area is gravel and asphalt. Sheet No. 5.07	Automotive repair and supply facility. Former gas station with reported UST and LUST. Known petroleum impacted soil and groundwater on the property. A CAP and monitoring activities are currently in place at this site. Groundwater flows to the west, northwest, toward the Project footprint along US 6	High	ISA Materials Handling and Health and Safety Plan recommended	An ISA is recommended to ascertain the results of the current corrective action measures that are in progress at this site. The completion date of the clean-up efforts is currently not known.

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
17	Recognized	218, PE-218, TE-218 Rev.	School District No. 1 in the City and County of Denver and State of Colorado Denver Public Schools Hilltop Bus Terminal 2800/2929 W. 7 th Avenue Denver, CO 80204	Area to be Acquired – 25' – 50" x 475' area parallel to US 6 – north side. Permanent Easement – 20' x 475' swath adjacent to acquisition along US 6. Acquisition area is barren – trees/weeds/dirt. Permanent easement area is oil-stained concrete. Sheet No. 5.08	Denver Public Schools Hilltop Bus Terminal. USTs reported on site. Confirmed release reported in the LUST database on 9/10/2009. Residual petroleum impacted soil and/or groundwater may be present. A closure letter for the 9/10/2009 LUST incident was received on 11/17/2009. Unknown material handling and disposal practices. Groundwater flows to the northeast, away from Project footprint.	Medium	ISA Materials Handling and Health and Safety Plan recommended	Although the status of the LUST incident is listed as closed, there is a potential to encounter undocumented/unknown soil/groundwater contamination at this site. Therefore, an ISA is recommended to obtain the status of this site. Depending upon the results of the ISA and type of construction activity at this site such as soil excavation/removal, additional investigation may be warranted to determine if soil/groundwater contamination is present at this site.
18		TE-219	Neostar, LLC, a Colorado limited liability company	Temporary Easement - 10' x 100' sliver along the western side of Federal Blvd. Area appears to be asphalt/parking area. Sheet No. 5.07	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
19	Recognized	TE-220	Rui Fen Auyeung and Shun Y. Auyeung In Alley Dumpster Behind old TRW Bldg. 445 Federal BLVD. Denver, CO 80204	Temporary Easement - 10' x 75' sliver along the western side of Federal Blvd. Area appears to be asphalt/parking area. Sheet No. 5.07	ERNS - Hazardous material found in dumpster in alley behind building. No additional information obtained. Unknown groundwater flow direction.	Low	ISA Materials Handling and Health and Safety Plan recommended	An ISA is recommended at this site to determine the current status of the site such as evidence of inappropriate disposal of hazardous materials. Materials Handling and Health and Safety Plan is recommended due to the documentation of inappropriate disposal of hazardous materials at this site.
20		TE-221	405 Federal Blvd., LLC	Temporary Easement - 10' x 75' sliver along the western side of Federal Blvd. Area appears to be asphalt/parking area. Sheet No. 5.07	None	No	N/A	
21		TE-222	Kayla Hanh Tran	Temporary Easement - 10' x 25' sliver at the corner of Federal Blvd. and West 4 th Avenue. Area appears to be asphalt/parking area. Sheet No. 5.07	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
22		223, 223A, PE-223, PE-223A, TE-223	R.W. Properties, LLC	<p>Area to be Acquired – 75' x 100' area west of North Canosa Ct. Area completed cul-de-sac for dead-end street.</p> <p>20' x 130' sliver along US 6</p> <p>Temporary Easement – 10' x 170' area adjacent to acquisition are needed for cul-de-sac.</p> <p>Permanent Easement – 15' x 100' area adjacent to the acquisition along US 6.</p> <p>Area is asphalt and parking</p> <p>Sheet No. 5.11</p>	None	No	N/A	
23		TE-224	Sun H. Kim	<p>Temporary Easement - 10' x 125' area on the west side of West 7th Avenue and Federal Blvd.</p> <p>Area is asphalt.</p> <p>Sheet No 6.01</p>	None	No	N/A	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
24		225	The Gail G. Gordon Marital Trust, dated November 12, 2009, Gail G. Gordon and BOKF, National Association, dba Colorado State Bank and Trust, Co-Trustees.	Area to be acquired – 110' x 200' area located east of the South Platte River. Area is vacant with grass and trees present. Sheet No. 5.13	None	No	N/A	
25	Recognized	PE-226	Lordlan Properties, LLC - 70% Interest & DYNA, LLC, a Colorado Limited Liability Company - 30% Interest	Permanent Easement – 25' x 75' area south of US 6, west of the South Platte River. Area is concrete/asphalt. Sheet No. 5.12	None	No	ISA	

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
26	Recognized		Conoco (former Phillips 66/Pester Marketing Company/1 st STOP #1207) 438 Federal BLVD. Denver, CO 80204	This property appears to be on the southeast corner of Federal and Short Place. Not showing any ROW needed at this address.	Confirmed release reported in the LUST database on 7/6/2011. Gas station with USTs currently in use on property. Three monitoring wells observed in alley behind site. Fourteen unmarked 55-gallon drums observed behind gas station building. Petroleum impacted groundwater was reported offsite. Groundwater flows to the northeast, away from Project footprint along Federal Blvd., but toward the W 5 th Avenue Project footprint.	Medium	ISA	A CAP is currently being developed for this site. Therefore, clean-up efforts at this site have not begun and the extent/level of contamination may not be fully known. Due to the uncertainty of the extent/level of contamination at this site, an ISA is recommended to determine current status of the site.
27	Recognized		Bryant Street Phillips 66 510 Bryant Street Denver, CO 80204	Not showing any ROW needed at this address.	Gas station with USTs currently in use on property. Confirmed release reported in the LUST database on 5/11/2006. Petroleum impacted groundwater on- and off-site. The EDR reported that the status of the LUST incident was reported as closed on 8/6/2007. Groundwater flows to the northeast, toward the Project footprint along US 6.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
28	Recognized		Ryder Truck Rental 0155 550 Bryant Street Denver, CO 80204	Not showing any ROW needed at this address.	Rental truck facility. FINDS site. RCRA Conditionally Exempt Small Quantity Generator – no violations reported. UST and LUST site. Known petroleum impacted soil and groundwater on the property. A closure letter was received on 2/11/2003. Groundwater flows to the northwest, toward the Project footprint along US 6.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site.
29	Potential		Proctor Production/Fuji Photo Film USA INC /Associated Stationer INC 501 Raritan Way Denver, CO 80204	Not showing any ROW needed at this address.	Commercial building. USTs permanently closed at property. No leaks or spills reported. Unknown site conditions. Unknown groundwater flow direction.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site.
30	Recognized		Conrads Inc. (Warehouse) [SIC]/Kenny Electrical Service 595 Quivas Street Denver, CO 80204	Not showing any ROW needed at this address.	Commercial building. Former location of Conrads Inc. UST and LUST site. Residual petroleum impacted soil may be located on property. A closure letter was received on 8/14/1997. Groundwater flows to the west, northwest, toward the Project footprint along US 6.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site.

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
31	Recognized		Sears Roebuck & Co. 1701 W. US 6 Denver, CO 80204 and 701 Osage Street Denver, CO 80219	Not showing any ROW needed at this address.	Warehouse. UST, LUST, and ERNS site. Known petroleum impacted soil and groundwater on site. The status of this site is listed as being enrolled in the LUST TRUST FUND Program. Groundwater flows to the west, northwest, toward the Project footprint along US 6.	High	ISA	An ISA is recommended at this site to determine the current status of this site.
32	Recognized		UPRR Burnham Yard 6 th and Osage Denver, CO 80204	Not showing any ROW needed at this address.	US 6 and Osage Street. ERNS site. Known petroleum impacted groundwater in area and vicinity of US6/I-25 interchange. Groundwater flows to the west, northwest, toward the Project footprint.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site.
33	Recognized		Landfill 500 Julian Street Denver, CO 80204	Not showing any ROW needed at this address.	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane). Unknown groundwater flow direction.	Low	ISA	An ISA is recommended at this site if subsurface work is necessary within 1000 feet.

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
34	Recognized		Landfill[California Expanded Metals Co./Champion Fence Co./Southwest Properties 490 Osage Street Denver, CO 80204	Not showing any ROW needed at this address.	Unknown use or contents. Unknown site conditions (potential groundwater contamination). Groundwater flows to the west, northwest, toward the Project footprint.	Low	ISA	An ISA is recommended at this site to determine the current status of this site.
35	Recognized		Rio Grand [SIC] Co. Residential Products Div. 500 Osage Street Denver, CO 80204	Not showing any ROW needed at this address.	Manufacturing facility. FINDS, UST and LUST site. Related to the US 6 and Osage UPRR-Burnham Yard ERNS site. Known petroleum impacted groundwater and soil in area and vicinity of US6/I-25 interchange. The status of the LUST is listed as closed on 9/15/2003. Groundwater flows to the west, northwest, toward the Project footprint.	Medium	ISA	An ISA is recommended at this site to determine the current status of this site.
36	Recognized		PCB-Capacitor Cleanup 5 th and Decatur Street	Not showing any ROW needed at this address.	CERCLIS site. RCRA Small Quantity Generator – no reported violations. No additional information available and site conditions are unknown. Unknown groundwater flow direction.	Low	ISA	An ISA is recommended at this site to determine the current status of this site.

Legend #	Type of Environmental Conditions	ROW Parcel Number	Property Name(s) and Address	Amount of ROW Required at Site/Description of ROW Acquired	Environmental Conditions (Based on Information available at time of 2012 Investigation)	2012 Potential Environmental Concern Ranking	Recommendations	Reasons for Recommendations
37	Recognized		Southbound Ramp 6 th Avenue to I-25	Not showing any ROW needed at this address.	ERNS - Diesel tanker overturned and fell into South Platte River. Residual soil and groundwater contamination may be present. Unknown groundwater flow direction.	Low	ISA	An ISA is recommended at this site to determine the current status of this site.
38	Recognized		Landfill 500 Alcott Street Denver, CO 80204 –	Not showing any ROW needed at this address.	Unknown use or contents. Unknown site conditions (potential groundwater contamination and methane). Unknown groundwater flow direction.	Low	ISA	An ISA is recommended at this site to determine the current status of this site.
			ROW parcel with identified hazmat					
			ROW parcel with no identified hazmat					
			Identified hazmat within study area					

Source: 2005 MESA, FEIS, and 2011 ISA

Legend No. 1 – Fergs Enterprise, LLC, a Colorado limited liability company/Marco's Auto Tech - 690 Federal Blvd. Denver, CO 80204

This site is a closed LUST site located at 690 Federal Boulevard and is an automotive garage that performs various repair services on automobiles. According to the environmental database report, this site is listed in the LUST database with two USTs that are permanently closed. A closure letter for the LUST incident was received on June 15, 2000. CDOT completed an ISA on 4/1/11.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction, away from the Project Footprint. However, this site is located to the north of the site identified as Legend Number 3, a LUST site, with a recent discovery of benzene in soil and groundwater samples above the CDPHE clean-up standards (see Legend Number 3 discussion) collected during a subsurface investigation conducted in July 2012. The current right-of-way plans indicate that entire property would be acquired to accommodate the Project. Therefore, due to the site's listing in the LUST database, acquisition of the entire property, and recent discovery of soil and groundwater contamination at a site (Legend No. 3) located to the south of this site, and the direction of groundwater flow, this site received an environmental concern ranking of Medium.

Legend No. 2 – U.S. Motels Federal, LLC - 620 Federal Blvd. Denver, CO 80204

This site is located at 620 Federal Boulevard and is a Days Inn motel. This site was not identified in any of the environmental databases.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction at this site. The northern portion of the site may be impacted by the dewatering concerns identified at the Legend Number 3 site due to the direction of groundwater flow. The current right-of-way plans indicate that temporary easements will be required from the southern and northern portions of this site. Therefore, due to the results of the October 2012 limited subsurface investigation at Legend Number 3 site, direction of groundwater flow, and temporary easement requirements at this site, this site received an environmental concern ranking of Low.

Legend No. 3 –Colorado Department of Transportation/Austria Motors - 642 Federal Blvd. Denver, CO 80204

This site is a closed LUST site located at 642 Federal Boulevard and was the former site of Austria Motors. However, the site is currently an empty lot that is partially paved. According to the environmental database report this site is listed in the LUST database with four USTs that are permanently closed. An NFAR for the LUST incident was received on July 7, 1999. However, soil and groundwater samples (boring location - MH-11) collected at this site during the limited subsurface investigation conducted in July 2012 revealed the presence of benzene in soils at 30 feet below grade (bgs) that was above the CDPHE Soil Cleanup Standards (July 2011) for residential soil and worker clean up and the groundwater protection benzene standard. Due to this discovery, CDOT conducted an additional subsurface investigation in October 2012 to determine the extent/level of soil and groundwater contamination at this site. The results of the October 2012 soil samples laboratory analysis

reported concentrations of total metals in the soil samples which were below the CDPHE HMWMD July 2011 CSEV Table values. Therefore, the metals do not appear to be compounds of concern at the site.

The results of the October 2012 groundwater samples indicate that the values of several of the metals reported in the MH-15 groundwater sample could pose a problem for disposal if groundwater is encountered during excavation, and if excavation dewatering is required for construction. However, encountering these soils may not be likely considering the depths.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction, away from the Project Footprint. However, due to a portion of this site being within the current right-of-way plans including a temporary easement, site's listing in the LUST database, and the recent discovery of soil and groundwater contamination above clean up levels, this site received an environmental concern ranking of Medium.

Legend No. 16 – Charles S. Yamaguchi and Chiseka Yamaguchi/ Sound on Wheels (former KOK Auto Repair and Body Shop/Yamaguchi Property) - 450 Federal Blvd. Denver, CO 80204

This site is an active LUST site located at 450 Federal Boulevard and is currently an automotive accessories garage. According to the environmental database report, this site is listed in the LUST database as a site currently undergoing corrective actions for a confirmed release of petroleum reported in May 1994.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction. Based on the current right-of-way plans, a temporary easement from this site will be required along the southeast corner of West 5th Ave. Therefore, due to the site's listing in the LUST database as a site undergoing corrective actions, right-of-way acquisition from the site in the form of a temporary easement, and direction of groundwater flow, this site received an environmental concern ranking of High.

Legend No. 17 – Denver Public Schools Hilltop Bus Terminal - 2800/2929 West 7th Avenue Denver, CO 80204

This site is a closed LUST site located at 2800 W. 7th Avenue. This site is a bus terminal and re-fueling area for the Denver Public Schools. The site is located 100 to 500 feet north of the westbound off-ramp to 6th Avenue from Federal Boulevard. According to the environmental database report two LUST incidents, one in 1989 and one in 2009, have been reported at this site. A closure letter has been received for both incidents. In addition, eight USTs are reported to be in-use at this site and range in size from 250-gallons to 20,000-gallons.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction away from the Project Footprint. The current right-of-way plans indicate that a portion of this site (area located parallel to the north of side of US 6) will be acquired by the Project. A permanent easement will also be required in the same area of the right-of-way acquisition. Therefore, due to the site's listing in the LUST database, acquisition of right-of-way from this site, and the current activities

conducted at this site that includes bus re-fueling, this site received an environmental concern ranking of Medium.

3.2.1.4 *LUST Sites within the Study Area of the Project Footprint*

Six LUST sites (former and active) were identified within the study area of the Project Footprint. These sites were located immediately adjacent, or within close proximity, (generally a few hundred feet or less) to the Project Footprint. Currently, it is not anticipated that the acquisition of right-of-way would be acquired from these sites. However, based on the type of environmental concern (i.e., LUST site) these sites were further evaluated to determine their environmental concern ranking in regards to the Project. The sites are listed in Table 4 and identified with the legend numbers 26, 27, 28, 30, 31, and 35. A summary of these sites is provided in the following paragraphs.

Legend No. 26 – Conoco (former Phillips 66/Pester Marketing Company/1st STOP #1207) – 438 Federal Blvd. Denver, CO 80204

This site is an open LUST site located at 438 Federal Boulevard and is currently a Conoco gas station; however, it was known as a Phillips 66 gas station at the time of the 2005 MESA. The site is located less than 100 feet south of the eastbound on-ramp to US 6 from Federal Boulevard. According to the environmental database report, three USTs are reported to be in-use at this site that include one 10,000-gallon UST filled with unleaded regular gasoline, one 8,000-gallon UST filled with unleaded premium gasoline, and one 6,000-gallon UST filled with diesel fuel. The site was reported in the LUST database on July 6, 2011 for a confirmed release of petroleum products. The CDPHE Colorado Storage Tank Information System (COSTIS) web site indicates that a Corrective Action Plan (CAP) is currently being developed for the clean-up of the LUST incident.

During the 2012 windshield survey, three monitoring wells were observed in the alley behind the gas station and 14 unlabeled 55-gallon drums were observed behind the gas station building (**Appendix B – Photo Log**).

Based on the area topography and various other resources, groundwater flows in a northeasterly direction. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site as it is beyond the Project Footprint. Therefore, based on the site's listing in the LUST database with required corrective actions, direction of groundwater flow towards the Project Footprint along West 5th Ave., unknown extent of soil and groundwater contamination (unknown at the time of this report), and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Legend No. 27 - Bryant Street Phillips 66 – 510 Bryant Street, Denver, CO 80204

This site is a closed LUST site located at 510 Bryant Street and is approximately 100 to 500 feet south of the Project Footprint. According to the environmental database report, four USTs are reported to be in-use at this site and include one 10,000-gallon UST filled with unleaded regular gasoline, one 3,000-gallon

UST filled with unleaded premium gasoline, one 3,000-gallon UST filled with diesel fuel, and one 300-gallon UST filled with used oil. The site was reported in the LUST database on May 11, 2006 for a confirmed release of petroleum products. A closure letter was received on August 6, 2007 for the reported LUST incident at this site. This site was also identified in the 2005 MESA as a site with petroleum impacted groundwater (onsite and offsite) above Colorado state standards (2005 MESA). In addition, the 2005 MESA stated that petroleum impacted soil may also be present on- and/or offsite. During the 2012 windshield survey, no evidence was observed that suggests active remediation and/or monitoring activities are currently taking place at this site.

Based on the area topography and various other resources, groundwater flows in a northeasterly direction at this site, towards the Project Footprint along US 6. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site as it is beyond the Project Footprint. Therefore, based on the site's listing in the LUST database with currently no active or required remediation, distance of site from the Project Footprint, and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Legend No. 28 – Ryder Truck Rental # 0155 – 550 Bryant Street, Denver, CO 80204

This site is a closed LUST site located at 550 Bryant Street and is less than 100 ft south of the US 6 Project Footprint. The site is currently a rental truck office and fueling facility. According to the environmental database records, three USTs are reported to be in-use at this site and include one 20,000-gallon UST filled with diesel, one 4,000-gallon UST filled with lube, and one 2,500-gallon UST filled with used oil. In addition, one 10,000-gallon UST for gasoline and one 12,000-gallon UST for diesel were removed from the site in October 1999. Approximately 650 yds³ of petroleum impacted soil were removed from the site. Eight additional USTs ranging in size from 560-gallons to 12,000-gallons have also been permanently closed on the site. A closure letter was received on February 4, 2004 as clean up actions at the site have met the criteria the State uses for determining adequate clean up. However, benzene impacted groundwater is present on-site and residual petroleum impacted soil may also be present.

Based on the area topography and various other resources, groundwater flows in a northwesterly direction at this site, towards the Project Footprint along US 6. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site. Therefore, based on the site's listing in the LUST database as a site that has met the required clean up criteria and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Legend No. 30 – Conrads Inc. (Warehouse){SIC}/Kenny Electrical Service – 595 Quivas Street, Denver, CO 80204

This site is a closed LUST site located at 595 Quivas Street, between Quivas Street and Raritan Way. According to environmental database records, two USTs were removed from the site in October 1996. The site was reported in the LUST database due to the discovery of petroleum impacted soil and

groundwater that was identified in the tank excavation. However, laboratory analytical results for total petroleum hydrocarbons (TPH) were below the State clean-up standard of 500 ppm. A groundwater sample was not collected. A closure letter for the site was received on August 18, 1997. However, residual petroleum impacted soil and groundwater may be present at the site.

Based on the area topography and various other resources, groundwater flows in a west to northwesterly direction at this site, towards the Project Footprint along US 6. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site. Therefore, based on the site's listing in the LUST database as a site that, at this time, has received an NFAR, no other reported violations involving hazardous materials, distance of site in relation to the Project Footprint, and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Legend No. 31 – Sears Roebuck & Co. – 1701 W. US 6, Denver, CO 80204 and 701 Osage Street, Denver, CO 80219

This site is a closed LUST site located at 1701 W. 6th Avenue. The site consists of a retail outlet facility that is located less than 100 ft north of US 6, between Seminole Road and I-25. According to environmental database records, a 4,000-gallon and 6,000-gallon UST for diesel were removed from the site in October 1988. The site was reported in the LUST database due to the discovery of petroleum impacted soil and groundwater identified on-site. A pump and treat system was reportedly installed on the property and several thousand gallons of petroleum product were removed in 1988. On May 18, 2001 the site was transferred to the LUST TRUST FUND Program.

Based on the area topography and various other resources, groundwater flows in a west to northwesterly direction at this site, towards the Project Footprint along US 6. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site. Therefore, based on the site's listing in the LUST database with a status of "closed", distance of site in relation to the Project Footprint, and no acquisition of right-of-way from this site, this site received an environmental concern ranking of High.

Legend No. 32 – UPRR Burnham Yard – 6th and Osage, Denver, CO 80204

This site is bounded to the north by 8th Avenue, to the south by 3rd Avenue, to the east by the Union Pacific Burnham railroad yard, and to the west by Quivas Street and the Consolidated Main Line railroad tracks. This site is identified in as an ERNS site. According to environmental records, groundwater in the area has been identified as containing elevated levels of petroleum TEPH in exceedences of 3,100 mg/l. Petroleum stained soils have also been observed in the area (2005 MESA).

In addition, this site has been identified as a one of the three potential sources of a petroleum plume that has resulted in soil and groundwater contamination on the north and south side of US 6. The three suspected sources include: the UPRR Burnham Yard (Legend No. 32), the Rio Grande Products site

(Legend No. 35) at 500 Osage St., and an abandoned UPRR diesel pipeline located east of the Rio Grande Products site. The UPRR Burnham Yard site is the source of the contamination north of 6th Avenue, and the Rio Grande Products site is the source of the contamination south of 6th Avenue. Approximately 670 linear ft of the storm drain located southwest of the UPRR Burnham Yard has been sealed, and a Corrective Action Plan approved for the UPRR Burnham Yard site. The lining and sealing of the storm drain is intended to prevent further diesel seepages into the stormwater drain from groundwater. However, diesel impacted groundwater is seeping into the stormwater drain from the south. The Rio Grande Products Site overlies the likely source of the diesel plume located south of 6th Avenue (2005 MESA).

Based on the area topography and various other resources, groundwater flows in a west to northwesterly direction at this site, towards the Project Footprint. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at these sites. Therefore, based on these sites listing in the LUST database, distance of site in relation to the Project Footprint, known/suspected soil and/or groundwater contamination, and no acquisition of right-of-way from this site, these sites received an environmental concern ranking of Medium.

Legend No. 34 – Landfill/California Expanded Metals Co./Champion Fence Co./Southwest Properties – 490 Osage Street, Denver, CO 80204

This site is a closed LUST site located at 490 Osage Street, just south of the Legend No. 35 site. According to environmental database records, site clean-up for the LUST incident was completed on October 20, 1993. On October 28, 1993, the site received a closure letter for the LUST incident.

Based on the area topography and various other resources, groundwater flows in a west to northwesterly direction at this site, towards the Project Footprint. The current right-of-way plans indicate that the acquisition of right-of-way will not be required at this site. Therefore, based on the site's listing in the LUST database as a site that, at this time, has received an NFA, distance of site in relation to the Project Footprint, and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Legend No. 35 – Rio Grande [SIC] Co. Residential Products Div. – 500 Osage Street, Denver, CO 80204

This site is a closed LUST site located at 500 Osage Street, just south of US 6 and north of the Legend No. 34 site. According to environmental database records, the status of the LUST incident was reported as closed on September 15, 2003. However, the 2005 MESA reported that this site likely overlies the source of the diesel impacted groundwater that is seeping into a stormwater drain associated with the Legend No. 32 site (2005 MESA). The 2005 MESA also indicated that petroleum contaminated soil and groundwater are located on the site and in the vicinity of existing I-25 and 6th Avenue (2005 MESA).

Based on the area topography and various other resources, groundwater flows in a west to northwesterly direction at this site, towards the Project Footprint. The current right-of-way plans

indicate that the acquisition of right-of-way will not be required at this site. Therefore, based on the site's listing in the LUST database, distance of site in relation to the Project Footprint, and no acquisition of right-of-way from this site, this site received an environmental concern ranking of Medium.

Based on the hazardous materials concerns addressed in this report, Table 5 lists the two sites with a High risk for environmental contamination and Figure 9 includes those sites and the known landfill areas in proximity to the Project footprint.

Table 5. Summary of High Risk Sites

Legend #	ROW Parcel Number	Property Name(s) and Address	ROW Required / Environmental Conditions Summary	2012 Potential Environmental Concern Ranking
16	TE-217	Charles S. Yamaguchi and Chiseko Yamaguchi Sound on Wheels (former KOK Auto Repair and Body Shop /Yamaguchi Property) 450 Federal BLVD. Denver, CO 80204	Temporary Easement – 10' x 200' sliver on the southeast corner of West 5 th Avenue and Federal. Area is gravel and asphalt. Sheet No. 5.07 Automotive repair and supply facility. Former gas station with reported UST and LUST. Known petroleum impacted soil and groundwater on the property. A CAP and monitoring activities are currently in place at this site. Groundwater flows to the west, northwest, toward the Project footprint along US 6	High
31		Sears Roebuck & Co. 1701 W. US 6 Denver, CO 80204 and 701 Osage Street Denver, CO 80219	Not showing any ROW needed at this address. Warehouse. UST, LUST, and ERNS site. Known petroleum impacted soil and groundwater on site. The status of this site is listed as being enrolled in the LUST TRUST FUND Program. Groundwater flows to the west, northwest, toward the Project footprint along US 6	High
	ROW parcel with identified hazmat			
	Identified hazmat within study area			

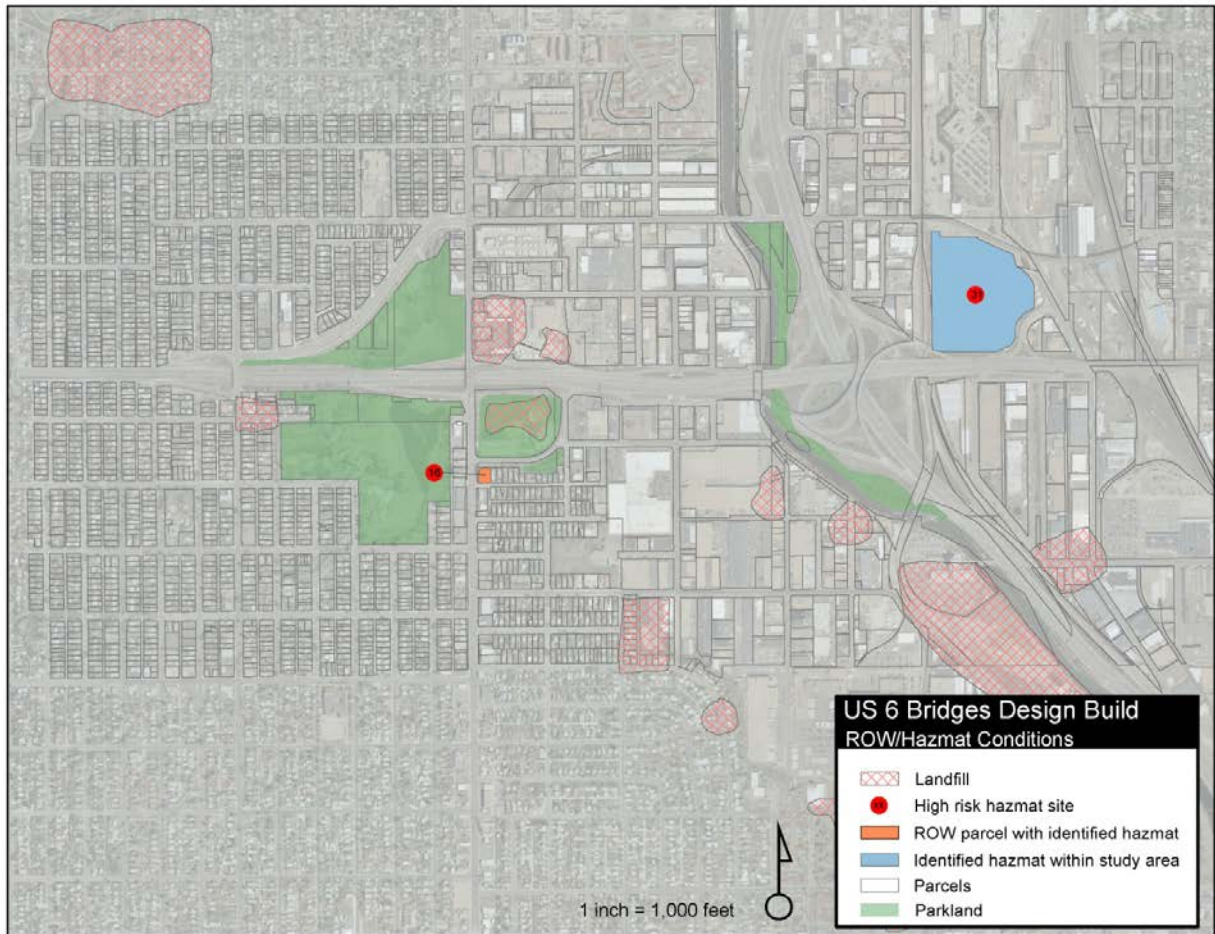


Figure 9: High Risk and Landfill Sites

3.2.1.5 *Asbestos and Lead Based Paint Analysis on US 6 Bridge Structures*

Five bridges, Federal Boulevard Bridge (F-16-EK), Bryant Street Bridge (F-16-EN/EM), South Platte River Bridge (F-16-EF), I-25 Bridge (F-16-DU), and the BNSF Railway Bridge (F-16-EJ), will be replaced by the Project. Therefore, paint samples and materials suspected to contain asbestos were collected from the US 6 Bridge structures (Structure IDs. F-16-EK, F-16-EN/EM, F-16-EF, F-16-DU, and F-16 EJ) and sent to a laboratory for analysis. The laboratory analysis revealed that none of the bridge structures contained asbestos based materials. However, lead based paint was detected on the bridge structure over the BNSF Railroad (F-16-EJ). The paint colors identified as containing lead include the silver paint (0.07% lead), the brown paint (7.246% lead), and the gray paint (2.693% lead) (2011 ISA).

3.2.1.6 *Landfill Sites*

Landfill sites in the project area are depicted in Figure 9 and described in further detail in Appendix A. If buried construction debris is encountered during construction activities, the Colorado Department of Public Health and Environment’s Hazardous Materials and Waste Management Division’s Asbestos Contaminated Soil Guidance Document (CDPHE 2007) will be followed, in accordance with the Solid

Waste Regulations. Soil characterization, management plans, and standard operating procedures should be implemented and submitted pursuant to Section 5.5.4(B) of the Solid Waste Regulations as defined in the Regulations Pertaining to Solid Waste Sites and Facilities 6 CCR 1007-2 (CDPHE, 2008), to minimize worker and public exposure and to ensure the construction debris is handled and disposed of in accordance with applicable regulations.

4. MITIGATION RECOMMENDATIONS

4.1 As Presented in FEIS and/or 2007 ROD

4.1.1 *Right-of-Way Acquisition*

The 2006 FEIS and 2007 ROD indicated that properties with potential or recognized environmental conditions would be partially or completely acquired for the US 6 Mainline Improvements and Bridge Projects. Tables 4.13-2 to 4.13-5 in the FEIS include the recommended requirements for ROW acquisition. The CDOT ROW process is discussed in Section 4.13.3.2 of the FEIS.

4.1.2 *Known Soil and Groundwater Contamination*

Active LUST sites would be acquired for ROW for the Project (See Tables 4.13-2 to 4.13-5 in the FEIS). In conjunction with final design, a detailed review of OPS files related to these properties would identify the results of any additional site investigations conducted at these properties, remedial systems or actions installed at the properties, and quarterly monitoring requirements. Prior to acquisition of these properties, coordination with OPS would be required. If site characterization and/or remediation have not been completed, CDOT may be required by OPS to complete these activities after acquisition. The OPS requirements may include:

- Removal of any underground storage tanks
- Excavation and management of petroleum contaminated soil
- Modifications to or redesign of remediation systems
- Replacement of any monitoring wells destroyed during construction
- Long-term groundwater monitoring

During the ROW acquisition process, additional properties may require similar actions depending on the results of the ISA. Prior to construction, the contractor should prepare a dewatering plan and obtain all required dewatering and remediation permits through CDPHE.

4.2 Changes Based on the Project

Based on the review of the 2005 MESA, FEIS, as well as a 2011 ISA, new information presented in the 2012 EDR and various other agency databases, the findings of the 2012 site reconnaissance, and the limited subsurface investigations conducted in December 2011, July 2012 and October 2012; there is a potential to encounter contaminated soil and groundwater throughout the Project Area and will be addressed as described below. CDOT is conducting a Phase II investigation at two locations to determine soil/groundwater contamination presence, described in the following section.

4.2.1 ***Soil and Groundwater Contamination Investigations***

Based on the 2012 design and analysis, six properties with potential or recognized environmental conditions will be partially or completely acquired for the Project. Within Table 4, there are descriptions of the six properties that CDOT is planning to acquire. Five of the sites to be acquired have Medium or Low risk rankings so no additional investigation is required. The only site with a High risk ranking to be acquired is 450 Federal Blvd (Legend # 16 – Charles S. Yamaguchi and Chiseka Yamaguchi/ Sound on Wheels). A 10 foot by 200 foot sliver of the site is needed as a temporary easement and therefore no additional investigation is required.

Given the results of the 2005 MESA, 2011 ISA, and 2012 hazardous materials analysis, including the potential petroleum soil and groundwater contamination around US 6 and the BNSF Bridge, CDOT is conducting a Phase II investigation at two locations: 1) the area under/around the BNSF Bridge and 2) the area around the location of the Tunnel/I-25 Bridge to further determine if soil/groundwater contamination is present in these areas. CDOT will provide the Contractor the Phase II report which the Contractor must use to complete the HASP, MMP, necessary CDPHE remediation permits, and any other recommendations.

[The Phase II investigation discussed above has been completed and is included in the appendices as: RMC Consultants. January 2013. Hazardous Material Site Investigation. U.S. Highway 6 Bridges at Interstate 25 and BNSF Railroad. RMC Consultants Project E12-023-154.]

4.2.2 ***Additional Requirements***

Given the evidence that RCRA metals are likely present in soil and groundwater throughout the Project area, the necessary acquisition of properties with known/suspected contaminated soil and groundwater, and documented presence of lead based paint on two of the bridge structures, a MMP is recommended as well as a HASP, which is required by section 250.03 of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011). Prior to demolition of any structures or removal of utility lines, materials abatement will be conducted, as necessary, according to Section 250, Environmental, Health, and Safety Management, of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011) and relevant Occupational Safety and Health Administration (OSHA) and other regulatory requirements. As discussed in Section 3.1.2, the HASP should provide considerations for potential contamination found around the BNSF Railway under the US 6 Bridge.

A State Certified Asbestos Building Inspector (CABI) shall inspect for the presence of asbestos during subsurface work on potentially asbestos containing materials or when building/construction debris is encountered. If asbestos is found, all further work (soil-related) shall proceed in accordance with CDOT's 250 spec, the Air Quality Control Commission Regulation No. 8 Part B, and the Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division Section 5.5 of the Regulations (6 CCR 1007-2).

If abandoned landfills are present within 1,000 feet of construction activities, the Health and Safety Plan will need to include provisions for assessing and monitoring air quality at all utility trenches, drainage structures, and similar underground construction (i.e., caissons) areas prior to and during intrusive activities to ensure worker safety.

REFERENCES

American Society for Testing and Materials. 2000. ASTM Standards on Environmental Site Assessments for Commercial Real Estate, E 1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

United States. Cong. Senate. *Residential Lead-Based Paint Hazard Reduction Act of 1992* – Title X. 102nd Cong., 2nd Session. S 3672. Washington: GPO, 1992. Available: <http://www.epa.gov/lead/pubs/titleten.html> Accessed August 2012.

FirstSearch Technology Corporation. April 30, 2012. Environmental Database Report

CDOT. 2006. Environmental Impact Statement (EIS) Valley Highway – Logan Road to 6th Avenue.

Felsburg Holt & Ullevig (FHU). 2005. Modified Environmental Site Assessment (MESA) for the Valley Highway Project. 2005 MESA.

Pinyon Environmental Engineering Resources, Inc. 2011. Initial Site Assessment. US 6 Bridge over the BNSF Bridge.

USEPA. Enforcement and Compliance History Online (ECHO). 2012.

Colorado Department of Labor and Employment/Division of Oil and Public Safety. Colorado Storage Information System. 2012.

Olsson Associates. February 2012. Limited Subsurface Investigation and Temporary Groundwater Monitoring Well Installation, U.S. Highway 6 Bridges and Federal, Denver, Colorado. Olsson Associates Project #011-2359.

Olsson Associates. August 2012. Limited Subsurface Investigation and Temporary Groundwater Monitoring Well Installation, U.S. Highway 6 Bridges and Federal, Denver, Colorado. Olsson Associates Project #A11-2359.

Olsson Associates. November 2012. Limited Subsurface Investigation and Temporary Groundwater Monitoring Well Installation, Former Austria Motors, Inc. 642 Federal Boulevard, Denver, Colorado. Olsson Associates Project #C11-2359.

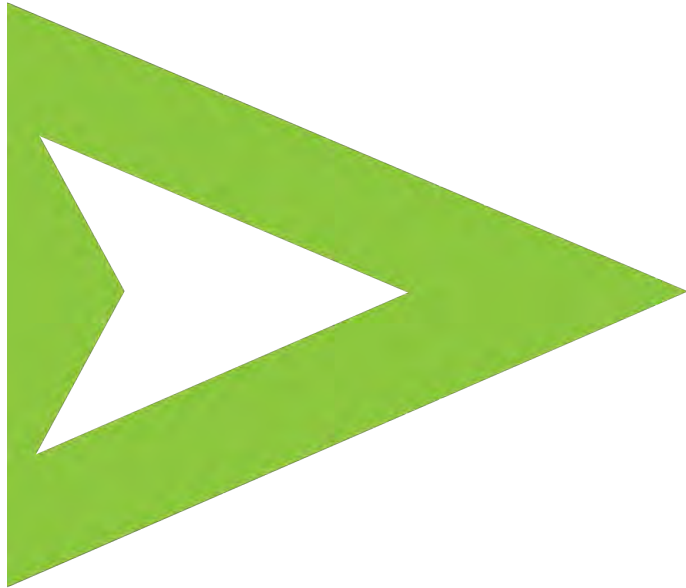
RMC Consultants. January 2013. Hazardous Material Site Investigation. U.S. Highway 6 Bridges at Interstate 25 and BNSF Railroad, Denver, Colorado. RMC Consultants Project E12-023-154.

APPENDIX A

2012 FirstSearch EDR



ENVIRONMENTAL FIRSTSEARCH REPORT



TARGET PROPERTY:

US 6

6TH AVE

DENVER, CO 80219

JOB NUMBER: US 6

PREPARED FOR:

April 30, 2012

Environmental FirstSearch Search Summary Report

Target Site: 6TH AVE
DENVER, CO 80219

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	02-01-12	1.00	0	0	0	4	4	0	8
NPL Delisted	Y	02-01-12	0.50	0	0	0	0	-	0	0
CERCLIS	Y	02-27-12	0.50	0	0	0	2	-	0	2
NFRAP	Y	02-27-12	0.50	0	0	1	0	-	0	1
RCRA COR ACT	Y	03-13-12	1.00	0	0	1	2	4	0	7
RCRA TSD	Y	03-13-12	0.50	0	0	1	2	-	0	3
RCRA GEN	Y	03-13-12	0.25	0	4	8	-	-	0	12
RCRA NLR	Y	03-13-12	0.25	0	7	10	-	-	0	17
Federal Brownfield	Y	02-01-12	0.50	0	0	0	0	-	0	0
ERNS	Y	04-13-12	0.12	0	4	-	-	-	29	33
Tribal Lands	Y	12-15-08	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	08-01-07	1.00	0	0	0	0	0	0	0
State Spills 90	Y	04-15-12	0.12	0	4	-	-	-	27	31
State Spills 80	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal SWL	Y	07-01-11	0.50	0	3	2	6	-	18	29
State/Tribal LUST	Y	04-24-12	0.50	0	16	18	39	-	6	79
State/Tribal UST/AST	Y	04-24-12	0.25	0	21	20	-	-	0	41
State/Tribal EC	Y	04-24-12	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	04-20-12	0.50	0	0	0	2	-	6	8
State/Tribal Brownfields	Y	08-01-07	0.50	0	0	0	0	-	0	0
Receptors	Y	01-01-05	0.50	0	0	0	0	-	0	0
NPDES	Y	03-05-12	0.25	0	0	0	-	-	3	3
FINDS	Y	05-29-09	0.25	0	32	38	-	-	4	74
TRIS	Y	01-04-12	0.25	0	1	5	-	-	0	6
HMIRS	Y	04-15-12	0.25	0	0	0	-	-	7	7
NCDB	Y	02-09-12	0.05	0	0	-	-	-	0	0
PADS	Y	10-21-11	0.25	0	0	1	-	-	0	1

Notice of Disclaimer

Due to the limitations, constraints, and inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

- Continued on next page -

Environmental FirstSearch Search Summary Report

Target Site: 6TH AVE
DENVER, CO 80219

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
AIRS	Y	01-18-12	0.05	0	1	-	-	-	1	2
DOCKET	Y	01-09-06	0.25	0	1	0	-	-	0	1
Nuclear Permits	Y	04-30-99	0.50	0	0	0	0	-	0	0
Releases	Y	04-13-12	0.25	0	0	1	-	-	0	1
Federal Other	Y	01-01-10	0.05	0	0	-	-	-	0	0
SETS PRP	Y	03-30-11	0.25	0	0	1	-	-	0	1
State Permits	Y	NA	0.25	0	0	0	-	-	0	0
State Other	Y	01-01-07	0.25	0	0	0	-	-	2	2
Federal IC/EC	Y	03-13-12	0.50	0	0	0	0	-	0	0
Dry Cleaners	Y	NA	0.25	0	0	0	-	-	0	0
Meth Labs	Y	12-02-11	0.12	0	0	-	-	-	2	2
HW Manifest	Y	NA	0.25	0	0	0	-	-	0	0
Vapor Intrusion	Y	03-06-08	0.25	0	0	0	-	-	0	0
-TOTALS-				0	94	107	57	8	106	372

Notice of Disclaimer

Due to the limitations, constraints, and inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

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Environmental FirstSearch Site Information Report

Request Date: 04-30-12
 Requestor Name: John Sell
 Standard: AAI

Search Type: LINEAR
 1.283 mile(s)
 Job Number: US 6
Filtered Report

Target Site: 6TH AVE
 DENVER, CO 80219

Demographics

Sites: 372	Non-Geocoded: 106	Population: NA
Radon: 1 - 8.8 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-105.020415	-105:1:13	Easting:	498250.385
Latitude:	39.725597	39:43:32	Northing:	4397092.602
Elevation:	5212		Zone:	13

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes:	Services:																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ZIP Code</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">ST</th> <th style="text-align: left;">Dist/Dir</th> <th style="text-align: left;">Sel</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="height: 100px;"> </td> </tr> </tbody> </table>	ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Requested?</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr><td>Fire Insurance Maps</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Aerial Photographs</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Historical Topos</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>City Directories</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Title Search</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Municipal Reports</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Liens</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Historic Map Works</td><td style="text-align: center;">No</td><td></td></tr> <tr><td>Online Topos</td><td style="text-align: center;">No</td><td></td></tr> </tbody> </table>		Requested?	Date	Fire Insurance Maps	No		Aerial Photographs	No		Historical Topos	No		City Directories	No		Title Search	No		Municipal Reports	No		Liens	No		Historic Map Works	No		Online Topos	No	
ZIP Code	City Name	ST	Dist/Dir	Sel																																					
	Requested?	Date																																							
Fire Insurance Maps	No																																								
Aerial Photographs	No																																								
Historical Topos	No																																								
City Directories	No																																								
Title Search	No																																								
Municipal Reports	No																																								
Liens	No																																								
Historic Map Works	No																																								
Online Topos	No																																								

**Environmental FirstSearch
Target Site Summary Report**

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
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No sites found for target address

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	SWL	KNOWN LANDFILL 124/HISTORIC	W BOUNDARIES APPROXIMATE: DENVER CO	0.02 NW	N/A	1
2	FINDS	ROBINSON DAIRY INC COD983797333/	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	2
2	FINDS	ROBINSON DAIRY LLC 110001727445/FRS	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	3
2	TRIS	ROBINSON DAIRY LLC 80204RBNSN241W6/	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	4
2	UST	ROBINSON DAIRY INC 11139/	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	5
2	LUST	ROBINSON DAIRY INC 2251/CLOSED	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	6
2	AIRS	ROBINSON DAIRY INC CO0948581/AIRS DATABASE	2401 W 6TH AVE DENVER CO 80204	0.03 NE	- 2	7
3	SPILLS	UNKNOWN CO97-471/	1701 W 6TH AVE DENVER CO	0.03 SE	- 5	8
3	UST	SEARS ROEBUCK & CO 3026/	1701 W 6TH AVE DENVER CO 80204	0.03 SE	- 5	9
3	LUST	7TH & OSAGE LTT-88/UNKNOWN	7TH & OSAGE DENVER CO	0.03 SE	- 5	10
3	LUST	SEARS ROEBUCK & CO 8481/LUST TRUST	1701 W 6TH AVE DENVER CO 80204	0.03 SE	- 5	11
4	SWL	KNOWN LANDFILL 128/HISTORIC	ON ATHLETIC FIELD, SEC 6TH DENVER CO	0.03 SW	N/A	12
5	ERNS	NRC-582019/FIXED	CORNER OF 6TH AND FEDERAL DENVER CO 80211	0.04 SW	+ 40	13
5	SPILLS	DAYS INN MOTEL 2001-424/	CORNER OF 6TH AND FEDERAL DENVER CO 80211	0.04 SW	+ 40	16
6	FINDS	FROG HOLLOW PARK TRAIL IMPROVEMENT 110043500020/FRS	I-25 & 6 AVE DENVER CO 80204	0.04 SE	N/A	17
7	SWL	KNOWN LANDFILL 129/HISTORIC	APPROX.: BETWEEN KNOX CT. DENVER CO	0.04 SW	N/A	18
8	RCRAGN	RYDER TRUCK RENTAL COD983800780/VGN	550 BRYANT DENVER CO 80204	0.06 SE	- 8	19
8	ERNS	INCIDENT 83-1963-CO/	550 BRYANT ST DENVER CO	0.06 SE	- 8	21
8	FINDS	RYDER TRUCK RENTAL 110002991987/FRS	550 BRYANT DENVER CO 80204	0.06 SE	- 8	22
8	FINDS	RYDER TRUCK RENTAL INC COD983800780/	550 BRYANT ST DENVER CO 80204	0.06 SE	- 8	23

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
8	UST	RYDER TRUCK RENTAL 0155 5605/	550 BRYANT ST DENVER CO 80204	0.06 SE	- 8	24
8	LUST	RYDER TRUCK RENTAL 7948/CLOSED	550 BRYANT ST DENVER CO 80204	0.06 SE	- 8	26
8	LUST	RYDER TRUCK RENTAL INC 1320/CLOSED	550 BRYANT ST DENVER CO 80204	0.06 SE	- 8	27
9	RCRANLR	FUJI PHOTO FILM USA INC COR000204263/NLR	501 RARITAN WAY DENVER CO 80204	0.06 SE	- 2	28
9	FINDS	FUJI PHOTO FILM USA INC 110015847547/FRS	501 RARITAN WAY DENVER CO 80204	0.06 SE	- 2	30
9	UST	ASSOCIATED STATIONER INC PROPERTY 15421/	501 RARITAN WAY DENVER CO 80204	0.06 SE	- 2	31
10	FINDS	DENVER WATER WEST SIDE COMPLEX FIB 110041250598/FRS	QUIVAS AND 6TH AVE DENVER CO 80204	0.06 SE	N/A	32
11	UST	CCOD FIRE STATION #20 8882/	510 KNOX CT DENVER CO 80204	0.06 SW	+ 119	33
11	UST	CCOD FIRE STATION #20 12053/UST	510 KNOX CT DENVER CO 80204	0.06 SW	+ 119	34
11	UST	HWS TECHNOLOGIES 11997/	504 KNOX CT DENVER CO 80204	0.06 SW	+ 119	35
11	UST	JOHN J HEGARTY 3557/	504 KNOX CT DENVER CO 80204	0.06 SW	+ 119	36
11	LUST	CCOD FIRE STATION #20 4945/CLOSED	510 KNOX CT DENVER CO 80204	0.06 SW	+ 119	37
11	LUST	HWS TECHNOLOGIES 3501/CLOSED	504 KNOX CT DENVER CO 80204	0.06 SW	+ 119	38
12	ERNS	IN THE BACK OF THE SHOP NRC-841082/FIXED	635 CANOSA CT DENVER CO 80204	0.07 NE	- 4	39
13	FINDS	SKYLINE BUSINESS FORMS INC 110001726785/FRS	550 RARITAN WAY DENVER CO 80204	0.07 SE	- 5	42
13	FINDS	SKYLINE BUSINESS FORMS INC CO0001986033/	550 RARITAN WAY DENVER CO 80204	0.07 SE	- 5	43
14	UST	AUSTRIA MOTORS INC 14223/	642 FEDERAL BLVD DENVER CO 80204	0.07 NW	+ 40	44
14	LUST	AUSTRIA MOTORS 6193/CLOSED	642 FEDERAL BLVD DENVER CO 80204	0.07 NW	+ 40	45
15	UST	CONRADS INC (CURRENTLY) 7836/	595 QUIVAS DENVER CO 80204	0.07 SE	- 4	46
15	UST	CONRADS WAREHOUSE 13770/	595 QUIVAS DENVER CO 80204	0.07 SE	- 4	47

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
15	LUST	CONRADS WAREHOUSE 5751/CLOSED	595 QUIVAS DENVER CO 80204	0.07 SE	- 4	48
16	FINDS	SKYLINE BUSINESS FORMS INC 110038610795/FRS	550 RARITAN WAY DENVER CO 80204	0.08 SE	N/A	49
17	RCRAGN	DENVER PUBLIC SCHOOL SERVICE BUILD COD980962252/SGN	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	50
17	FINDS	DENVER PUBLIC SCH SVC BUILDING COD980962252/	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	52
17	FINDS	DENVER PUBLIC SCHOOL SERVICE BUILD 110009560233/FRS	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	53
17	UST	DPS HILL TOP FUEL FAC 7513/	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	54
17	LUST	DPS HILL TOP FUEL FAC 10932/CLOSED	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	56
17	LUST	DPS SERVICE BLDG 3964/CLOSED	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	57
17	LUST	DPS SERVICE BLDG 6562/CLOSED	2800 W 7TH AVE DENVER CO 80204	0.09 NW	+ 41	58
18	RCRAGN	THE GLIDDEN CO COR000202747/VGN	637 OSAGE ST DENVER CO 80204	0.09 NE	+ 10	59
18	FINDS	THE GLIDDEN CO 110012236883/FRS	637 OSAGE ST DENVER CO 80204	0.09 NE	+ 10	61
19	FINDS	AGRICULTURAL INDUSTRIAL CHEMICALS 110018930317/FRS	510 BRYANT ST DENVER CO 80204	0.09 SE	- 7	62
19	UST	BRYANT CONVENIENCE 10653/	510 BRYANT ST DENVER CO 80204	0.09 SE	- 7	63
19	LUST	BRYANT CONVENIENCE 10429/CLOSED	510 BRYANT ST DENVER CO 80204	0.09 SE	- 7	64
19	LUST	BRYANT STREET PHILLIPS 10078/OPEN	510 BRYANT ST DENVER CO 80204	0.09 SE	- 7	65
20	FINDS	ROBINSON DAIRY INC CO0002416790/	646 BRYANT ST DENVER CO 80204	0.09 NE	- 5	66
20	FINDS	ROBINSON DAIRY INC 110010689139/FRS	646 BRYANT ST DENVER CO 80204	0.09 NE	- 5	67
20	DOCKET	ROBINSON DAIRY INC 08-1998-0105/ICIS	646 BRYANT ST DENVER CO 80204	0.09 NE	- 5	68
21	FINDS	EMPRESS CHINCHILLA BREEDERS CO COD980452874/	627 OSAGE ST DENVER CO 80204	0.09 NE	+ 10	69
21	FINDS	JOHN PHILLIPS PRINTING CO0000755454/	627 OSAGE ST DENVER CO 80204	0.09 NE	+ 10	70

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
21	FINDS	JOHN PHILLIPS PRINTING 110001724894/FRS	627 OSAGE ST DENVER CO 80204	0.09 NE	+ 10	71
22	RCRANLR	SQUARE D COMPANY COD007084155/NLR	677 ALCOTT DENVER CO 80204	0.10 NE	- 6	72
22	FINDS	SQUARE D CO COD007084155/	677 ALCOTT DENVER CO 80204	0.10 NE	- 6	74
22	FINDS	SQUARE D COMPANY 110002963641/FRS	677 ALCOTT DENVER CO 80204	0.10 NE	- 6	75
23	RCRANLR	DUPONT DE NEMOURS & CO COT090011297/NLR	555 QUIVAS ST DENVER CO 80217	0.10 SE	- 6	76
23	FINDS	DUPONT DE NEMOURS & CO COT090011297/	555 QUIVAS ST DENVER CO 80217	0.10 SE	- 6	78
23	FINDS	DUPONT DE NEMOURS & CO 110003004249/FRS	555 QUIVAS ST DENVER CO 80204	0.10 SE	- 6	79
24	ERNS	INCIDENT 88-18141-CO/	5TH & BRYANT DENVER CO	0.10 SE	- 6	80
25	SPILLS	DENVER SEWER DEPT/PUBLIC WORKS CO96-455/	5TH AND BRYANT STREETS DENVER CO	0.10 SE	- 6	81
26	UST	IVER J ESBENSON CO INC 10743/	666 BRYANT ST DENVER CO 80204	0.10 NE	- 6	82
27	UST	DEVOE PAINT 11260/	657 OSAGE ST DENVER CO 80204	0.10 NE	+ 9	83
28	RCRAGN	UNION PACIFIC RR CO BURNHAM SHOPS COD983790932/VGN	680 SEMINOLE RD DENVER CO 80023	0.11 NE	+ 12	84
28	FINDS	DENVER RIO GRANDE WESTERN RR COD983790932/	680 SEMINOLE RD DENVER CO 80023	0.11 NE	+ 12	86
28	FINDS	UNION PACIFIC RAILROAD CO. -BURNHA 110001427590/FRS	680 SEMINOLE RD DENVER CO 80204	0.11 NE	+ 12	87
28	UST	DENVER LOCOMOTIVE SHOP 2293/	680 SEMINOLE RD DENVER CO 80204	0.11 NE	+ 12	88
28	UST	SPTCO DENVER LOCOMOTIVE PLANT 7431/UST	680 SEMINOLE RD DENVER CO 80204	0.11 NE	+ 12	90
29	RCRANLR	MARCS AUTO CHECK COR000016618/NLR	690 FEDERAL BLVD DENVER CO 80204	0.11 NW	+ 40	91
29	FINDS	MARCS AUTO CHECK 110003002928/FRS	690 FEDERAL BLVD DENVER CO 80204	0.11 NW	+ 40	93
29	UST	MARC S AUTOCHECK 15126/	690 FEDERAL BLVD DENVER CO 80204	0.11 NW	+ 40	94
29	LUST	MARCS AUTOCHECK 8083/CLOSED	690 FEDERAL BLVD DENVER CO 80204	0.11 NW	+ 40	95

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
30	RCRANLR	SEARS ROEBUCK AND COMPANY COD114044506/NLR	701 OSAGE ST DENVER CO 80219	0.11 NE	- 6	96
30	FINDS	SEARS ROEBUCK & COMPANY COD114044506/	701 OSAGE ST DENVER CO 80219	0.11 NE	- 6	98
30	FINDS	SEARS ROEBUCK AND COMPANY 110002970651/FRS	701 OSAGE ST DENVER CO 80204	0.11 NE	- 6	99
30	UST	SEARS WAREHOUSE 16080/	701 OSAGE ST DENVER CO 80210	0.11 NE	- 6	100
31	SPILLS	UNKNOWN CO92-127/	5TH AND DECATUR DENVER CO	0.11 SW	+ 26	101
32	UST	ROBINSON DAIRY LLC 18490/	2400 W 7TH AVE DENVER CO 80204	0.11 NE	- 9	102
32	LUST	ROBINSON DAIRY LLC 10752/CLOSED	2400 W 7TH AVE DENVER CO 80204	0.11 NE	- 9	103
33	RCRANLR	ROCKY MOUNTAIN BANK NOTE COD980955199/NLR	2500 W 5TH AVE WHEAT RIDGE CO 80153	0.12 SE	- 9	104
33	FINDS	ROCKY MOUNTAIN BANK NOTE COD980955199/	2500 W 5TH AVE WHEAT RIDGE CO 80153	0.12 SE	- 9	106
33	FINDS	ROCKY MOUNTAIN BANK NOTE 110006488906/FRS	2500 W 5TH AVE WHEAT RIDGE CO 80033	0.12 SE	- 9	107
34	RCRANLR	PPG INDUSTRIES INC COD078343613/NLR	590 QUIVAS ST DENVER CO 80204	0.12 SE	0	108
34	FINDS	PPG INDS INC COD078343613/	590 QUIVAS ST DENVER CO 80204	0.12 SE	0	110
34	FINDS	PPG INDUSTRIES INC 110002968646/FRS	590 QUIVAS ST DENVER CO 80204	0.12 SE	0	111
34	UST	PPG INDUSTRIES INC 7592/	590 QUIVAS ST DENVER CO 80204	0.12 SE	0	112
35	NFRAP	DECATUR PCB CAPICITORS COD983794652/NFRAP-NFRAP-N	2750 W 5TH AVE DENVER CO 80204	0.13 SW	+ 16	113
35	RCRANLR	5TH DECATUR PCB CAPACITOR CLEANUP COD983794652/NLR	DEN CAR POUND YORK AT BRIG DENVER CO 80202	0.13 SW	+ 16	114
35	FINDS	5TH & DECATUR PCB CAPACITOR CLEANU COD983794652/	2750 W 5TH AVE DENVER CO 80202	0.13 SW	+ 16	116
35	FINDS	DECATUR PCB CAPACITORS 110009271082/FRS	2750 W 5TH AVE DENVER CO 80204	0.13 SW	+ 16	117
36	FINDS	SHELL S FINE PRINT 110038611124/FRS	2943 WEST 7TH AVE DENVER CO 80204	0.13 NW	N/A	118
37	RELEASES	UNKNOWN 187885/UNKNOWN (NRC)	7TH STREET & PLATTE RIVER/ DENVER CO	0.14 NE	- 12	119

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Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
38	FINDS	JOHN PHILLIPS PRINTING 110038610571/FRS	627 OSAGE ST DENVER CO 80204	0.14 NE	N/A	120
39	UST	ELMS INVESTMENT 2969/	730 UMATILLA ST DENVER CO 80204	0.14 NE	- 3	121
39	UST	ELMS INVESTMENT PROPERTY 13424/	730 UMATILLA ST DENVER CO 80204	0.14 NE	- 3	122
39	LUST	ELMS INVESTMENT PROPERTY 5434/CLOSED	730 UMATILLA ST DENVER CO 80204	0.14 NE	- 3	123
40	RCRANLR	BLAIR LABELING SYSTEMS INC COD982596694/NLR	425 FEDERAL BLVD DENVER CO 80204	0.15 SW	+ 41	124
40	FINDS	BLAIR LABELING SYSTEMS INC COD982596694/	425 FEDERAL BLVD DENVER CO 80204	0.15 SW	+ 41	126
40	FINDS	BLAIR LABELING SYSTEMS INC 110002980953/FRS	425 FEDERAL BLVD DENVER CO 80204	0.15 SW	+ 41	127
41	FINDS	SHELL CHEMICAL COMPANY 110002365253/FRS	2943 W 7TH AVE UNK CO 99999	0.15 NW	+ 38	128
42	SWL	KNOWN LANDFILL 130/HISTORIC	BOUNDARIES APPROXIMATE: BO DENVER CO	0.15 SE	N/A	129
43	RCRAGN	E N MURRAY CO INC COD983772815/VGN	707 UMATILLA ST DENVER CO 80204	0.16 NE	- 4	130
43	FINDS	E N MURRAY CO INC 110002984138/FRS	707 UMATILLA ST DENVER CO 80204	0.16 NE	- 4	132
43	FINDS	EN MURRAY CO INC COD983772815/	707 UMATILLA ST DENVER CO 80204	0.16 NE	- 4	133
44	RCRANLR	DENVER & RIO GRANDE WESTERN RAILRO COD000706770/NLR	8TH & OSAGE DENVER CO 80217	0.16 NE	+ 9	134
44	FINDS	UNION PACIFIC RAILROAD CO. 110024260235/FRS	800 SEMINOLE RD DENVER CO 80204	0.16 NE	+ 9	136
44	UST	BURNHAM SHOPS 974/	800 SEMINOLE RD DENVER CO 80204	0.16 NE	+ 9	137
44	LUST	SOUTHERN PACIFIC RAILWAY - BURNHAM 442/CLOSED	800 SEMINOLE RD DENVER CO 80201	0.16 NE	+ 9	140
44	LUST	SOUTHERN PACIFIC RAILWAY BURNHAM Y 447/CLOSED	800 SEMINOLE RD DENVER CO 80201	0.16 NE	+ 9	141
45	FINDS	K O K AUTO REPAIR & BODY SHOP CO0000714568/	450 FEDERAL DENVER CO 00000	0.17 SW	+ 48	142
45	FINDS	K O K AUTO REPAIR & BODY SHOP 110001428170/FRS	450 FEDERAL BLVD DENVER CO 80204	0.17 SW	+ 48	143
45	UST	CHARLES YAMAGUCHI 5393/	450 FEDERAL BLVD DENVER CO 80204	0.17 SW	+ 48	144

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Target Property: 6TH AVE
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TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
45	UST	YAMAGUCHI PROPERTY 13124/	450 FEDERAL BLVD DENVER CO 80204	0.17 SW	+ 48	145
45	LUST	YAMAGUCHI PROPERTY 5269/OPEN	450 FEDERAL BLVD DENVER CO 80204	0.17 SW	+ 48	146
46	UST	740 INVESTORS 12272/	740 UMATILLA ST DENVER CO 80204	0.17 NE	- 5	147
46	UST	WOLF JOHNSON & MCCORMICK 6273/	740 UMATILLA ST DENVER CO 80204	0.17 NE	- 5	148
46	LUST	740 INVESTORS 2871/CLOSED	740 UMATILLA ST DENVER CO 80204	0.17 NE	- 5	149
47	PRP	MAY D AND F 8272200/PRP	445 BRYANT ST DENVER CO 80223	0.17 SE	- 4	150
48	RCRAGN	HEPPTING LEATHER CLEANERS COD983793860/VGN	3469 W 4TH AVE DENVER CO 80219	0.18 SW	+ 107	151
48	RCRANLR	HEPPTING LEATHER CLEANERS COD983793860/NLR	3469 W 4TH AVE DENVER CO 80219	0.18 SW	+ 107	152
48	FINDS	HEPPTING LEATHER CLEANERS COD983793860/	3469 W 4TH AVE DENVER CO 80219	0.18 SW	+ 107	154
48	FINDS	HEPPTING LEATHER CLEANERS 110002989678/FRS	3469 W 4TH AVE DENVER CO 80219	0.18 SW	+ 107	155
49	RCRAGN	MAY D&F DISTRIBUTION CENTER COD983799776/SGN	445 BRYANT ST DENVER CO 80204	0.18 SE	- 2	156
49	RCRANLR	MAY D&F DISTRIBUTION CENTER COD983799776/NLR	445 BRYANT ST DENVER CO 80204	0.18 SE	- 2	157
49	FINDS	MAY D&F DIST CTR COD983799776/	445 BRYANT ST DENVER CO 80204	0.18 SE	- 2	159
49	FINDS	MAY D&F DISTRIBUTION CENTER 110002991415/FRS	445 BRYANT ST DENVER CO 80204	0.18 SE	- 2	160
50	RCRAGN	PSCO - 7TH AVE SVR CTR COD133896134/SGN	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	161
50	RCRANLR	PSCO - 7TH AVE SVC CTR COD133896134/NLR	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	162
50	FINDS	PUBLIC SERVICE COMPANY 7TH AVENUE 110001393965/FRS	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	164
50	FINDS	PUBLIC SVC CO COD133896134/	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	165
50	LUST	7TH AVENUE SERVICE CENTER 3684/CLOSED	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	166
50	PADS	SEVENTH AVE SERVICE CTR COD133896134/PCB ACTIVITY	2701 W 7TH AVE DENVER CO 80204	0.19 NW	- 3	167

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Target Property: 6TH AVE
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TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
51	FINDS	K O K AUTO REPAIR & BODY SHOP 110038609609/FRS	450 FEDERAL BLVD DENVER CO 80204	0.19 SW	N/A	168
52	UST	DANA KEPNER CO 6038/	700 ALCOTT ST DENVER CO 80204	0.19 NE	- 9	169
53	RCRATSD	LINCOLN PLATING COMPANY COD007073901/TSD	777 UMATILLA DENVER CO 80204	0.20 NE	- 6	170
53	RCRACOR	LINCOLN PLATING COMPANY COD007073901/CA	777 UMATILLA DENVER CO 80204	0.20 NE	- 6	171
53	RCRAGN	LINCOLN PLATING COMPANY COD007073901/LGN	777 UMATILLA DENVER CO 80204	0.20 NE	- 6	174
53	RCRANLR	LINCOLN PLATING COMPANY COD007073901/NLR	777 UMATILLA ST DENVER CO 80204	0.20 NE	- 6	175
53	FINDS	CAI TECHNOLOGIES COD007073901/	777 UMATILLA DENVER CO 80204	0.20 NE	- 6	178
53	FINDS	LINCOLN PLATING COMPANY DENVER CEN 110000466790/FRS	777 UMATILLA ST DENVER CO 80204	0.20 NE	- 6	179
53	TRIS	LINCOLN PLATING CO. COD007073901/OPEN	777 UMATILLA ST DENVER CO 80204	0.20 NE	- 6	180
53	TRIS	LINCOLN PLATING CO. - DENVER CENTR 80204CTCHN777UM/OPEN	777 UMATILLA ST DENVER CO 80204	0.20 NE	- 6	181
54	FINDS	COASTAL MART INC 1207 CO0000714873/	438 FEDERAL ST DENVER CO 80204	0.20 SW	+ 49	184
54	FINDS	PESTER MARKETING CO 110001437053/FRS	438 FEDERAL BLVD DENVER CO 80204	0.20 SW	+ 49	185
54	UST	TRIMER ENTERPRISES LLC 9517/	438 FEDERAL BLVD DENVER CO 80204	0.20 SW	+ 49	186
54	LUST	TRIMER ENTERPRISES LLC 11458/OPEN	438 FEDERAL BLVD DENVER CO 80204	0.20 SW	+ 49	187
55	FINDS	JACKSON ICE CREAM COMPANY COD983769274/	400 YUMA ST DENVER CO 80204	0.20 SE	- 9	188
55	FINDS	JACKSON ICE CREAM COMPANY (KROGER) 110000466807/FRS	400 YUMA ST DENVER CO 80204	0.20 SE	- 9	189
55	TRIS	JACKSON & CO. INC. COD983769274/OPEN	400 YUMA ST DENVER CO 80204	0.20 SE	- 9	190
55	TRIS	JACKSON ICE CREAM 80204JCKSN400YU/OPEN	400 YUMA ST DENVER CO 80204	0.20 SE	- 9	191
56	UST	MONFORT FOOD DISTRIBUTING CO 832/	415 YUMA ST DENVER CO 80204	0.20 SE	- 8	193
57	LUST	5TH & OSAGE LTT-86/UNKNOWN	5TH & OSAGE DENVER CO	0.20 SE	+ 9	194

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Target Property: 6TH AVE
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JOB: US 6

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
58	RCRAGN	VISION GRAPHICS INC COR000207530/VGN	750 CANOSA CT DENVER CO 80204	0.21 NE	- 6	195
58	RCRANLR	KEYLINE GRAPHICS COR000207530/NLR	750 CANOSA CT DENVER CO 80204	0.21 NE	- 6	198
58	FINDS	KEYLINE GRAPHICS INCORPORATED 110001397532/FRS	750 CANOSA CT DENVER CO 80204	0.21 NE	- 6	199
58	FINDS	KEYLINE GRAPHICS, INC CO0001240597/	750 CANOSA CT DENVER CO 80204	0.21 NE	- 6	200
59	FINDS	DENVER & RIO GRANDE WESTERN RAILRO COD000706770/	8TH & OSAGE DENVER CO 80217	0.21 NE	+ 10	201
60	FINDS	RIO GRANDE CO RESIDENTIAL PRODUCT CO0000756841/	500 OSAGE ST DENVER CO 80204	0.21 SE	+ 11	202
60	FINDS	RIO GRANDE CO RESIDENTIAL PRODCTS 110001397104/FRS	500 OSAGE ST DENVER CO 80204	0.21 SE	+ 11	203
60	UST	RIO GRANDE CO RESIDENTIAL PRODUCTS 7940/	500 OSAGE ST DENVER CO 80204	0.21 SE	+ 11	204
60	LUST	RIO GRANDE CO RESIDENTIAL PRODUCTS 9337/CLOSED	500 OSAGE ST DENVER CO 80204	0.21 SE	+ 11	205
61	UST	DELTA DRY WALL INC 5251/	2605 W 7TH AVE DENVER CO 80204	0.21 NE	- 7	206
61	LUST	DELTA DRY WALL INC 3722/CLOSED	2605 W 7TH AVE DENVER CO 80204	0.21 NE	- 7	207
62	SWL	KNOWN LANDFILL 131/HISTORIC	AT 4TH & VALLEJO ST DENVER CO	0.22 SE	N/A	208
63	UST	FEDERAL AUTO & WRECKING CO 12382/	750 FEDERAL BLVD DENVER CO 80204	0.22 NW	+ 25	209
63	LUST	FEDERAL AUTO & WRECKING CO 2446/CLOSED	750 FEDERAL BLVD DENVER CO 80204	0.22 NW	+ 25	210
63	LUST	FEDERAL AUTO & WRECKING CO 2450/CLOSED	750 FEDERAL BLVD DENVER CO 80204	0.22 NW	+ 25	211
64	FINDS	DECATUR CO0000310185/	400 DECATUR ST DENVER CO 80204	0.23 SW	+ 41	212
64	FINDS	DECATUR 110011677293/FRS	400 DECATUR ST DENVER CO 80204	0.23 SW	+ 41	213
65	FINDS	PARAGON REPRODUCTIONS INC 110038622005/FRS	2500 WEST 4TH AVE DENVER CO 80219	0.23 SE	N/A	214
66	UST	NEWSTROM-DAVIS CONSTRUCTION CO 10840/	2000 W 8TH AVE DENVER CO 80204	0.23 NE	- 7	215
66	LUST	NEWSTROM-DAVIS CONSTRUCTION CO 5137/CLOSED	2000 W 8TH AVE DENVER CO 80204	0.23 NE	- 7	216

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Target Property: 6TH AVE
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TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
67	UST	DENVER PUBLIC SCHOOL 14101/	2880 W 8TH AVE DENVER CO 80204	0.24 NW	+ 24	217
67	LUST	DENVER PUBLIC SCHOOL 8548/CLOSED	2880 W 8TH AVE DENVER CO 80204	0.24 NW	+ 24	218
67	LUST	DENVER PUBLIC SCHOOL / TRANSPORTAT 4422/OPEN	2880 W 8TH AVE DENVER CO 80204	0.24 NW	+ 24	219
68	RCRAGN	AB DICK COMPANY COR000204313/VGN	2500 W 8TH AVE DENVER CO 80204	0.25 NE	- 8	220
68	RCRAGN	MILWAUKEE ELECTRIC TOOL CORP COR000210161/VGN	2500 W 8TH AVE DENVER CO 80204	0.25 NE	- 8	222
68	RCRANLR	AB DICK COMPANY COR000204313/NLR	2500 W 8TH AVE DENVER CO 80204	0.25 NE	- 8	224
68	FINDS	AB DICK COMPANY 110022513537/FRS	2500 W 8TH AVE DENVER CO 80204	0.25 NE	- 8	225
68	FINDS	MILWAUKEE ELECTRIC TOOL CORP 110020745096/FRS	2500 W 8TH AVE DENVER CO 80204	0.25 NE	- 8	226
69	RCRANLR	FLINT INK CORP COD007068430/NLR	2600 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	227
69	FINDS	FLINT INK CORP COD007068430/	2600 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	229
69	FINDS	FLINT INK CORP 110001435448/FRS	2600 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	230
69	UST	FLINT INK CORP 10316/	2600 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	231
70	FINDS	CALIFORNIA EXPANDED METALS CO 110022448270/FRS	490 OSAGE ST DENVER CO 80204	0.25 SE	+ 11	232
70	TRIS	CALIFORNIA EXPANDED METALS CO 80204CLFRN49SAG/	490 OSAGE ST DENVER CO 80204	0.25 SE	+ 11	233
70	UST	CHAMPION FENCE CO 12817/	490 OSAGE ST DENVER CO 80204	0.25 SE	+ 11	234
70	UST	SOUTHWEST PROPERTIES 6064/	490 OSAGE ST DENVER CO 80216	0.25 SE	+ 11	235
70	LUST	CHAMPION FENCE CO 1739/CLOSED	490 OSAGE ST DENVER CO 80204	0.25 SE	+ 11	236
71	UST	L E RENNER SPORTS SURFACES 1553/	775 CANOSA CT DENVER CO 80204	0.25 NW	- 2	237
71	LUST	L E RENNER SPORTS SURFACES 10965/CLOSED	775 CANOSA CT DENVER CO 80204	0.25 NW	- 2	238
72	UST	HEB S SERVICE 8102/	2214 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	239

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Target Property: 6TH AVE
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TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
72	LUST	HEB S SERVICE 2403/CLOSED	2214 W 8TH AVE DENVER CO 80204	0.25 NE	- 5	240
73	LUST	8TH & FEDERAL LTT-90/UNKNOWN	8TH & FEDERAL DENVER CO	0.26 NW	+ 27	241
74	LUST	RTD 1058/CLOSED	655 MARIPOSA ST DENVER CO 80204	0.27 NE	+ 14	242
75	NPL	DENVER RADIUM SITE 94 COD980716955L/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.28 SE	N/A	243
76	VCP	BRYANT STREET QUAD 1000-76/	2390 W 4TH AVE DENVER CO 80223	0.28 SE	- 4	246
77	LUST	GAS-A-CAR #54 2457/CLOSED	301 KNOX CT DENVER CO 80219	0.28 SW	+ 81	247
78	LUST	MURRAY DISTRIBUTING CO INC 540/CLOSED	1505 W 3RD AVE DENVER CO 80223	0.29 SE	+ 10	248
79	LUST	CHEVRON USA INC 1434/CLOSED	2403 W 8TH AVE DENVER CO 80204	0.29 NE	- 22	249
80	LUST	WYLACO SUPPLY CO 1375/CLOSED	295 VALLEJO DENVER CO 80223	0.29 SE	- 8	250
81	LUST	BP INVESTMENT 3071/CLOSED	330 QUIVAS ST DENVER CO 80223	0.30 SE	+ 7	251
82	NPL	DENVER RADIUM SITE 95 COD980716955M/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.33 SE	N/A	252
82	SWL	KNOWN LANDFILL 132/HISTORIC	S BOUNDARIES APPROXIMATE: DENVER CO	0.31 SE	N/A	255
83	CERCLIS	DENVER RADIUM SITE 94 COD980716955L/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.33 SE	+ 15	256
84	LUST	BOYD DISTRIBUTING CO 140/CLOSED	350 OSAGE ST DENVER CO 80223	0.33 SE	+ 12	259
85	SWL	KNOWN LANDFILL 135/HISTORIC	APPROXIMATE: N: W. 3RD AVE DENVER CO	0.33 SE	N/A	260
86	LUST	HIGHLAND SALES CO INC 3225/CLOSED	236 WYANDOT DENVER CO 80223	0.33 SE	- 6	261
87	LUST	WASTEWATER MANAGEMENT FACILITY 3635/CLOSED	2000 W 3RD AVE DENVER CO 80223	0.35 SE	- 2	262
88	LUST	BOYD DISTRIBUTING 6994/CLOSED	340 NAVAJO ST DENVER CO 80202	0.35 SE	+ 14	263
89	CERCLIS	DENVER RADIUM SITE 95 COD980716955M/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.36 SE	+ 17	264
90	LUST	CGF SIGN INC DBA GORDON SIGN CO 2994/CLOSED	2930 W 9TH AVE DENVER CO 80204	0.36 NW	+ 14	267

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Target Property: 6TH AVE
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TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
91	SWL	KNOWN LANDFILL 136/HISTORIC	W BOUNDARIES APPROXIMATE: DENVER CO	0.36 SE	N/A	268
92	SWL	STAFAB 016-REC-001/	860 NAVAJO DENVER CO 80204	0.36 NE	+ 20	269
93	LUST	REID PROPERTY 4725/CLOSED	600 PERRY ST DENVER CO 80204	0.36 NW	+ 125	270
94	LUST	STOUT STREET FOUNDATION 3161/CLOSED	875 NAVAJO ST DENVER CO 80204	0.37 NE	+ 19	271
95	LUST	JEBCO HEATING & AIR CONDITIONING 8929/CLOSED	666 LIPAN ST DENVER CO 80209	0.37 NE	+ 18	272
96	LUST	MASTERS STUDIO 4740/CLOSED	1140 W 5TH AVE DENVER CO 80204	0.37 SE	+ 18	273
97	LUST	DENVER #2 9183/CLOSED	899 DECATUR ST DENVER CO 80204	0.38 NW	- 2	274
98	LUST	BOYS & GIRLS CLUB OF DENVER 1515/CLOSED	901 TEJON ST DENVER CO 80204	0.38 NE	- 9	275
99	LUST	BELCON MECHANICAL 3218/CLOSED	630 LIPAN DENVER CO 80204	0.38 NE	+ 18	276
100	NPL	DENVER RADIUM SITE COD980716955/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.39 NE	N/A	277
101	LUST	SLATTERY & CO 6078/CLOSED	181 VALLEJO ST DENVER CO 80223	0.39 SE	- 5	280
102	LUST	ALBERT WEDELL 555/CLOSED	168 FEDERAL BLVD DENVER CO 80219	0.39 SW	+ 47	281
103	LUST	NUCRISP 4172/CLOSED	601 PERRY ST DENVER CO 80204	0.39 NW	+ 131	282
104	LUST	CRAIG & ASSOC 4355/CLOSED	745 LIPAN ST DENVER CO 80204	0.39 NE	+ 25	283
105	LUST	NEUSTETER PROPERTY 1825/CLOSED	2450 W 2ND AVE DENVER CO 80223	0.40 SE	- 4	284
106	LUST	ALVIN KRUTSCH PROPERTY 2084/CLOSED	146 YUMA ST DENVER CO 80223	0.41 SE	- 4	285
107	VCP	10TH AND OSAGE PROPERTIES 080509-2/	944 OSAGE ST DENVER CO 80204	0.43 NE	+ 18	286
108	RCRATSD	KATZSON BROTHERS INC COD031992225/TSD	960 VALLEJO ST DENVER CO 80204	0.44 NE	- 10	287
108	RCRACOR	KATZSON BROTHERS INC COD031992225/CA	960 VALLEJO ST DENVER CO 80204	0.44 NE	- 10	288
108	LUST	KATZSON BROTHERS INC 2378/CLOSED	960 VALLEJO ST DENVER CO 80204	0.44 NE	- 10	290

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
109	LUST	KALAMATH ASSOCIATES PROPERTY 623/CLOSED	570 KALAMATH ST DENVER CO 80204	0.44 SE	+ 27	291
110	SWL	KNOWN LANDFILL 116/HISTORIC	N BOUNDARIES APPROXIMATE: DENVER CO	0.45 NW	N/A	292
111	LUST	KING SOOPERS GARAGE / FLEET MAINTENANCE 8703/CLOSED	95 TEJON ST DENVER CO 80223	0.45 SE	- 2	293
112	NPL	DENVER RADIUM SITE-OU 9A COD980716955H/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.46 NE	N/A	294
112	SWL	KNOWN LANDFILL 122/HISTORIC	BOUNDARIES APPROXIMATE: BE DENVER CO	0.46 NW	N/A	297
113	LUST	LOOMIS 10678/CLOSED	974 YUMA ST DENVER CO 80204	0.46 NE	- 12	298
114	LUST	ADCO GENERAL CORPORATION PROPERTY 7236/CLOSED	1021 W 8TH AVE DENVER CO 80218	0.46 NE	+ 30	299
115	RCRATSD	G&K SERVICE INCORPORATED COD983789447/TSD	999 VALLEJO ST DENVER CO 80204	0.47 NE	- 12	300
115	RCRACOR	G&K SERVICE INCORPORATED COD983789447/CA	999 VALLEJO ST DENVER CO 80204	0.47 NE	- 12	301
116	LUST	MIRAMAR PARTNERSHIP 5072/CLOSED	2490 W 2ND AVE DENVER CO 80223	0.48 SE	+ 15	303
117	LUST	MCCAFFREY FACILITY 9308/CLOSED	110 YUMA ST DENVER CO 80223	0.48 SE	- 2	304
118	LUST	DICK LESNICK 1616/CLOSED	866 LIPAN DENVER CO 80204	0.48 NE	+ 29	305
119	LUST	SIXTH & SANTA FE CAR WASH 6587/CLOSED	603 SANTA FE DR DENVER CO 80204	0.49 NE	+ 31	306
120	LUST	WASTE WATER MGMT 4990/CLOSED	3RD AVE & S PLATTE RIVER D DENVER CO 80223	0.49 SE	+ 18	307
121	LUST	7-ELEVEN #1825-23603 564/CLOSED	105 KNOX CT DENVER CO 80219	0.50 SW	+ 68	308
121	LUST	7-ELEVEN #23603 8108/	105 KNOX CT DENVER CO 80219	0.50 SW	+ 68	309
121	LUST	7-ELEVEN #23603 10870/OPEN	105 KNOX CT DENVER CO 80219	0.50 SW	+ 68	310
122	LUST	CONOCO SS 5808/CLOSED	571 SANTA FE DR DENVER CO 80204	0.50 SE	+ 31	311
123	RCRACOR	ALERT POLISHING AND PLATING COR000016204/CA	345 SANTA FE DR DENVER CO 80223	0.58 SE	+ 31	312
124	NPL	DENVER RADIUM SITE 97 COD980716955N/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.61 SE	N/A	314

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
124	NPL	DENVER RADIUM SITE-OU 10 COD980716955I/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.64 NE	N/A	317
124	NPL	DENVER RADIUM SITE-OU 7B COD980716955E/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.72 NE	N/A	320
124	NPL	DENVER RADIUM SITE-OU 7C COD980716955F/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	0.65 NE	N/A	323
125	RCRACOR	SAFETY-KLEEN SYSTEMS INC COD980954101/CA	1345 W BAYAUD AVE DENVER CO 80223	0.75 SE	- 2	326
126	RCRACOR	MALLOW PLATING WORKS INC COD007076813/CA	118 S PECOS ST DENVER CO 80223	0.79 SE	0	329
127	RCRACOR	PSCO - BARTERS LOT C COD982584526/CA	701 W BAYAUD AVE DENVER CO 80223	0.90 SE	+ 27	332

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	13TH AVENUE NEAR OSAGE STREET NRC-980176/RAILROAD NON-RELEASE	13 TH NEAR OSAGE ST DENVER CO	NON GC	N/A	N/A
	ERNS	1701 WEST 6TH AVE NRC-1001471/FIXED	1701 WEST 6TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	26900 EAST 75TH AVE. NRC-973327/MOBILE	26900 EAST 75TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	465 WEST 56TH AVENUE NRC-974257/FIXED	465 WEST 56TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	48TH AND KALAMATH NRC-986885/MOBILE	48TH AVE & KALAMATH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	56TH AVENUE VASQUEZ BLVD NRC-925954/PIPELINE	56TH BLVD VASQUEZ DENVER CO	NON GC	N/A	N/A
	ERNS	6885 EAST 48TH AVENUE NRC-881158/FIXED	6885 E 48TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	7TH AND SHERIDAN NRC-955227/FIXED	7TH & SHERIDAN DENVER CO	NON GC	N/A	N/A
	ERNS	901 W. 48TH STREET NRC-904115/FIXED	901 W 48TH ST DENVER CO	NON GC	N/A	N/A
	ERNS	BETWEEN 75TH AVE AND PENA BLVD AND NRC-988360/FIXED	75TH AVE & PENA BLVD DENVER CO	NON GC	N/A	N/A
	ERNS	BTWN PERRY & QUITMAN STS 343259-CO/	S SIDE OF 37TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	CONSOLIDATED FREIGHT WAYS 628769/HIGHWAY RELATED	I 25 MILE MARKER 231 DENVER CO	NON GC	N/A	N/A
	ERNS	CONTINENTAL ENTERPRISE DENVER 540747/MARINE VESSEL (EPA REGIONS)	N FRONTAGE AT 48TH DR DENVER CO	NON GC	N/A	N/A
	ERNS	GENERAL SERVICES ADMIN. 628735/FIXED FACILITY	BUILDING 53 DENVER FEDERAL DENVER CO	NON GC	N/A	N/A
	ERNS	GRAND AIR 538369/FIXED FACILITY	BOMBADIER GENERAL AVIATION DENVER CO	NON GC	N/A	N/A
	ERNS	HIGHWAY 285 MILE MARKER 240 NRC-993615/MOBILE	US HWY 285 MM 240 DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT 87-2195-CO/	65TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT #108564 108564-CO/	88TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT #269779 269779-CO/	W 46TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT #402511 402511-CO/	36TH STREET UP YARD DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	INCIDENT #415037 415037-CO/	36TH STREET YARD DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT #467028 467028-CO/	1570 W 58TH AVE DENVER CO	NON GC	N/A	N/A
	ERNS	INCIDENT #479080 479080-CO/	I 25 MILE MARKER 231 DENVER CO	NON GC	N/A	N/A
	ERNS	METRO WASTEWATER REC DISTRICT 597105/PIPELINE RELATED	IRVING AND SANDERSON GULCH DENVER CO	NON GC	N/A	N/A
	ERNS	N/A NRC-526763/RAILROAD NON-RELEASE	36TH ST DENVER CO	NON GC	N/A	N/A
	ERNS	RAIL YARD 901 WEST 48TH ST NRC-977296/RAILROAD	WEST RAIL YARD 901 48TH DENVER CO	NON GC	N/A	N/A
	ERNS	REPUBLIC PARKING 511156/HIGHWAY RELATED	S EMPLOYEE PARKING LOT DENVER CO	NON GC	N/A	N/A
	ERNS	UNION PACIFIC RAILROAD NRC-737791/RAILROAD	36TH ST RAIL YARD DENVER CO	NON GC	N/A	N/A
	ERNS	UNION PACIFIC YARD TRACK 179806-CO/	NO. 6 NERA 36TH DENVER CO	NON GC	N/A	N/A
	NPDES	WEIR GULCH AT HOOKER COG073602/MINOR	3 AVE & HOOKER DENVER CO 80219	NON GC	N/A	N/A
	NPDES	COG070317/	LOWELL BLVD & MANSFIELD AV DENVER CO 00000	NON GC	N/A	N/A
	NPDES	COG072896/	E. OF RIVERDALE RD & THORN THORNTON CO 00000	NON GC	N/A	N/A
	FINDS	14TH AND ALBION ST. NJH-E 110020882641/FRS	14TH AND ALBION NJH-E ST DENVER CO 80220	NON GC	N/A	N/A
	FINDS	FERRIL LAKE STORAGE FACILITY 110027363500/FRS	E 18TH AVE DENVER CO	NON GC	N/A	N/A
	FINDS	SH NO 88 - STU C0881-024 110043500137/FRS	WEST FEDERAL & BLVD DENVER CO 80219	NON GC	N/A	N/A
	FINDS	WEIR GULCH AT HOOKER 110043272106/FRS	3 & HOOKER AVE DENVER CO 80219	NON GC	N/A	N/A
	SPILLS	B & M METAL PRODUCTS CO93-296/	ALLEY BTWN KALAMATH&JASON& DENVER CO	NON GC	N/A	N/A
	SPILLS	CENTRAL PARKING GARAGE 2008-0510/	17TH & GLENARM DENVER CO	NON GC	N/A	N/A
	SPILLS	DENVER DEPT OF ENVIRONMENTAL HEALT 2011-0293/	ON WYNKOOP ST, BETWEEN 16T DENVER CO	NON GC	N/A	N/A
	SPILLS	DENVER WATER? 2011-0604/	5TH ST & RAMPART WAY DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	DJ S SNOW PLOWING & MAINTENANCE 2012-0048/	3401 WEST KNOX CT AND GIRA DENVER CO	NON GC	N/A	N/A
	SPILLS	EDIFICE CONSTRUCTION MANAGEMENT 2011-0501/	E 8TH AVE & N UINTA WAY & DENVER CO	NON GC	N/A	N/A
	SPILLS	EQUIPMENT SAVERS MOBIL 2011-0586/	48TH AVE & KALAMATH ST DENVER CO	NON GC	N/A	N/A
	SPILLS	GENERAL SERVICES ADMINISTRTRN CO99-124/	BUILDING 53, DENVER FEDERA DENVER CO	NON GC	N/A	N/A
	SPILLS	GOMCOM TRUCKING 2011-0518/	I 25 & BROADWAY ABOUT WHER DENVER CO	NON GC	N/A	N/A
	SPILLS	HERTZ RENTAL CAR CO97-291/	HERTZ RENTAL CAR FACILITY DENVER CO	NON GC	N/A	N/A
	SPILLS	INDIGO WATER GROUP 2011-0816/	I 25 & ALAMEDA AVE DENVER CO	NON GC	N/A	N/A
	SPILLS	J.R. SIMPLOT 2002-1130/	UPRR-36TH RAILROAD YARD ST DENVER CO	NON GC	N/A	N/A
	SPILLS	JIFFY LUBE OR QUICK LUBE 2010-0272/	8TH & SANTE FE DENVER CO	NON GC	N/A	N/A
	SPILLS	METRO WASTE WATER DISTRICT CO98-241/	IRVING AND SANDERSON GULCH DENVER CO	NON GC	N/A	N/A
	SPILLS	METRO WASTEWATER RECLAMATION DISTR 2010-0527/	7TH & SHERIDAN DENVER CO	NON GC	N/A	N/A
	SPILLS	PARAMOUNT CONSTRUCTION 2011-0275/	8TH AVE & WOLFF ST. DENVER CO	NON GC	N/A	N/A
	SPILLS	REYNOLDS, INC 2011-0519/	47TH AVE & HAVANA ST DENVER CO	NON GC	N/A	N/A
	SPILLS	UNION PACIFIC RAIL ROAD 2005-564/	38TH STREET, MOFFET TUNNEL DENVER CO	NON GC	N/A	N/A
	SPILLS	UNION PACIFIC RAILROAD 2001-460/	36TH ST. UNION PACIFIC RAI DENVER CO	NON GC	N/A	N/A
	SPILLS	UNION PACIFIC RAIROAD 2002-1070/	UPRR-36TH RAILYARD ST DENVER CO	NON GC	N/A	N/A
	SPILLS	UNKNOWN 2000-178/	W 62ND & 63RD; BETWEEN FED DENVER CO	NON GC	N/A	N/A
	SPILLS	UNKNOWN 2008-0664/	TOWER - BETWEEN 56TH AND A DENVER CO	NON GC	N/A	N/A
	SPILLS	UNKNOWN CO98-290/	BETWEEN 6TH AND 7TH DOWN A DENVER CO	NON GC	N/A	N/A
	SPILLS	UNKNOWN CO93-406/	26TH & MONAHAN & 58TH & MO DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	UPRR 2011-0200/	901 W 48TH ST DENVER CO 80221	NON GC	N/A	N/A
	SPILLS	UPRR 2012-0038/	901 WEST 48TH ST, DENVER R DENVER CO	NON GC	N/A	N/A
	SPILLS	WARNER ENTERPRISES CO91-006/	FRANKLIN & 26TH ST DENVER CO	NON GC	N/A	N/A
	SWL	ALLIED CHEMICALS DENVER, CO 12-0383/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	ASARCO 12-0385/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	COLORADO DEPT OF HEALTH 12-039/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	DENVER METHANE 12-0384/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	DENVER R 12-0386/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	DENVER RA 12-0387/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	DENVER RADIUM SITES 12-0388/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	E. COLO AVE & S. SYRACUSE ST. 12-0374/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	INSPIRATION POINT AREA 10-28/HISTORIC	N IMMEDIATELY OF THE INTER DENVER CO	NON GC	N/A	N/A
	SWL	INSPIRATION POINT AREA 10-31/HISTORIC	W ROUGHLY BORDERED BY FENT DENVER CO	NON GC	N/A	N/A
	SWL	NO NAME REPORTED 10-25/HISTORIC	W BORDERED BY W. 9TH AVE., DENVER CO	NON GC	N/A	N/A
	SWL	OLD DENVER CITY SWDS 12-0391/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	SWL	RIVERSIDE B. CHURCH AREA 10-27/HISTORIC	W FILLS EXIST FOR APPROXIM DENVER CO	NON GC	N/A	N/A
	SWL	RIVERSIDE BAPTIST CHURCH PROPERTY, 9-09/HISTORIC	THE RIVERSIDE BAPTIST CHUR DENVER CO	NON GC	N/A	N/A
	SWL	RIVERSIDE SITE B 9-06/HISTORIC	OF THE RIVERSIDE BAPTIST C DENVER CO	NON GC	N/A	N/A
	SWL	RIVERSIDE SITE C 9-08/HISTORIC	S SOUTHEAST OF SITE B IN T DENVER CO	NON GC	N/A	N/A
	SWL	RIVERSIDE SITE D 9-07/HISTORIC	SOUTHEAST OF RIVERSIDE C, DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TOTAL: 372 **GEOCODED:** 266 **NON GEOCODED:** 106 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SWL	SHELL CHEMICAL COMPANY 12-0375/HISTORIC	UNKNOWN DENVER CO	NON GC	N/A	N/A
	OTHER	NCLRCO-701/NCLR	1000 N FEDERAL BLVD DENVER CO	NON GC	N/A	N/A
	OTHER	NCLRCO-821/NCLR	732 N KNOX CT DENVER CO	NON GC	N/A	N/A
	LUST	ABANDONED TEXACO LTT-91/UNKNOWN	UNKNOWN DENVER CO	NON GC	N/A	N/A
	LUST	EAST COLFAX AUTO PARTS LTT-99/UNKNOWN	UNKNOWN DENVER CO	NON GC	N/A	N/A
	LUST	EASTSIDE PLANT LTT-100/UNKNOWN	UNKNOWN DENVER CO	NON GC	N/A	N/A
	LUST	HARRISON STREET LTT-106/UNKNOWN	HARRISON ST DENVER CO	NON GC	N/A	N/A
	LUST	SOUTH IRVING ST LTT-109/UNKNOWN	S IRVING ST DENVER CO	NON GC	N/A	N/A
	LUST	TRYND LTT-110/UNKNOWN	TRYND DENVER CO	NON GC	N/A	N/A
	HMIRS	BURLINGTON NORTHERN RR CO 1993120919/RAILWAY	8TH AVE DENVER CO	NON GC	N/A	N/A
	HMIRS	EQUIPMENT SAVERS INC I-2011090521/HIGHWAY	48TH AVE & KALAMETH ST DENVER CO	NON GC	N/A	N/A
	HMIRS	ESTES WEST E-2012020353/HIGHWAY	5375 EAST 56TH AVE DENVER CO	NON GC	N/A	N/A
	HMIRS	FEDEX GROUND PACKAGE SYSTEM INC. X-2012030161/HIGHWAY	1105 WEST 48TH AVE DENVER CO	NON GC	N/A	N/A
	HMIRS	GREENWOOD MOTOR LINES INC. E-2012020251/HIGHWAY	6050 EAST 56TH AVE DENVER CO	NON GC	N/A	N/A
	HMIRS	ROADWAY EXPRESS INC 1993110747/HIGHWAY (FOR HIRE)	11100 E 145TH DENVER CO	NON GC	N/A	N/A
	HMIRS	SOLAR TRANSPORT COMPANY I-2011040442/HIGHWAY	26900 EAST 75TH AVE DENVER CO	NON GC	N/A	N/A
	TRIBALLA	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-80219/	UNKNOWN CO 80219	NON GC	N/A	N/A
	VCP	1468 DELGANY STREET 120112-1/	1490 DELGANY & 1425 WEWATTA DENVER CO	NON GC	N/A	N/A
	VCP	FILING 32 PARCEL 2A II 111216-1/	MARTIN LUTHER KING JR BLVD DENVER CO	NON GC	N/A	N/A
	VCP	FILING 7 EMBANKMENT 100814-1/	STAPLETON FILING DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	VCP	INTERSTATE PATTERN 120404-1/	2050 SOUTH PECOS ST., UNIT DENVER CO	NON GC	N/A	N/A
	VCP	STAPLETON FLING #16, III 111107-1/	MARTIN LUTHER KING JR BLVD DENVER CO	NON GC	N/A	N/A
	VCP	XCEL ENERGY HARRISON ST. SUBSTATIO 120302-1/	1310 HARRISON ST DENVER CO	NON GC	N/A	N/A
	AIRS	ALL DEMOLITION EXCAV - PORT CRUSHE 0877703519/AIRS DATABASE	1601 SOUTH FEDERAL BLVD. WHEAT RIDGE CO 80033	NON GC	N/A	N/A
	METHLABS	NCLRCO-821/NCLR	732 N KNOX CT DENVER CO	NON GC	N/A	N/A
	METHLABS	NCLRCO-700/NCLR	300 N KNOX ST DENVER CO	NON GC	N/A	N/A

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 139 **DIST/DIR:** 0.02 NW **ELEVATION:** **MAP ID:** 1

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	W BOUNDARIES APPROXIMATE: W: FEDER DENVER CO DENVER	ID1:	124
CONTACT:		ID2:	00070-0000668
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 85 **DIST/DIR:** 0.03 NE **ELEVATION:** 5210 **MAP ID:** 2

NAME: ROBINSON DAIRY INC
ADDRESS: 2401 W 6TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983797333
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 86 **DIST/DIR:** 0.03 NE **ELEVATION:** 5210 **MAP ID:** 2

NAME:	ROBINSON DAIRY LLC	REV:	10/25/11
ADDRESS:	2401 W 6TH AVE	ID1:	110001727445
	DENVER CO 80204	ID2:	80204RBNSN241W6
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NEIPROGRAM ID:NEICO0311766
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:TRISPROGRAM ID:80204RBNSN241W6
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:AIRS/AFSPROGRAM ID:0803101766
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:EISPROGRAM ID:701011
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RMPPPROGRAM ID:100000203353
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 125 DIST/DIR: 0.03 NE ELEVATION: 5210 MAP ID: 2

NAME: ROBINSON DAIRY LLC
ADDRESS: 2401 W 6TH AVE
DENVER CO 80204
DENVER

REV: 1/4/12
ID1: 80204RBNSN241W6
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: EPA

SITE_INFORMATION

SIC INFORMATION

NA -

REPORTED INFORMATION

REPORTING YEAR:CONTACT PERSON:CONTACT PHONE:

2005CHARLIE WALLING3038252990

YEARCHEMICALONE TIME RELEASE QTY(LBS)

2005NITRIC ACID

2006NITRIC ACID

2007NITRIC ACID0

OFF SITE TREATMENT LOCATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 162 DIST/DIR: 0.03 NE ELEVATION: 5210 MAP ID: 2

NAME: ROBINSON DAIRY INC REV: 04/24/12
ADDRESS: 2401 W 6TH AVE ID1: 11139
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 4549
OWNER NAME: ROBINSON DAIRY INC;
OWNER ADDRESS: 646 BRYANT ST BOX 5774
DENVER CO 80217

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 30529
TANK TAG: 11139-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 30530
TANK TAG: 11139-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 30531
TANK TAG: 11139-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=11139

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 227 **DIST/DIR:** 0.03 NE **ELEVATION:** 5210 **MAP ID:** 2

NAME: ROBINSON DAIRY INC
ADDRESS: 2401 W 6TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 2251
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/4/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2251

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

AIRS

SEARCH ID: 264 **DIST/DIR:** 0.03 NE **ELEVATION:** 5210 **MAP ID:** 2

NAME: ROBINSON DAIRY INC
ADDRESS: 2401 W 6TH AVE
DENVER CO 80204
DENVER

REV: 1/18/12
ID1: CO0948581
ID2: 01766
STATUS: AIRS DATABASE
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

COMPLIANCE PLANT ID:01766
EPA PLANT ID:110001727445
DUN & BRADSTREET NUMBER:
AIR QUALITY REGION:036
PRIMARY SIC NUMBER:2026
NAIC:
DEFAULT COMPLIANCE STATUS:IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS 22//0/5/ WCQ
DEFAULT CLASSIFICATION CODE:POTENTIAL UNCONTROLLED EMISSIONS <100 TONS/YEAR
GOVERNMENT FACILITY:0
CMS CATEGORY:
HIGH PRIORITY VIOLATER FLAG:

OPERATING STATUS:O
YEAR MEASURED:96
PRINCIPAL PRODUCT:DAIRY PROCESSING/PACKAGIN
LAST UPDATED:5/7/2009
AMBIENT MONITORING:
SOURCE MONITORING EQUIP:
STATE IMPLIMENTED PROG:OZONE
PLANT DESC:DAIRY PROCESSING/PACKAGIN

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SPILLS

SEARCH ID: 134 **DIST/DIR:** 0.03 SE **ELEVATION:** 5207 **MAP ID:** 3

NAME: UNKNOWN **REV:**
ADDRESS: 1701 W 6TH AVE **ID1:** CO97-471
DENVER CO **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: CDPHE

PRP INFORMATION
PRP NAME: UNKNOWN
PRP CONTACT:
PRP ADDRESS:

SPILL INFORMATION
EVENT DATE: 10/7/1997
MATERIAL TYPE: OIL

MATERIAL1: OILS,DIESEL
QUANTITY1: 0 UNKNOWN
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: UNKNOWN
SOURCE TYPE: UNKNOWN
MEDIUM: LAND AND GROUND WATER
WATERWAY:
CAUSE: UNKNOWN
CAUSE INFO: UNKNOWN

ACTION:

RESPONSE COMMENTS: HE ALSO STATED THAT LAST YEAR THE DENVER WATER BOARD, WHICH IS ALOS NEXT TO UNION PACIFIC RR, HAD THE SAME PROBLEM.

COMMENTS: WHILE DIGGING A TRENCH, GROUNDWATER CAME IN AND DIESEL WAS FLOATING ON TOP. CALLER STATES THAT UNION PACIFIC RR IS NEXT DOOR & HAS HAD SEVERAL SPILLS IN THEPAST.

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 183 **DIST/DIR:** 0.03 SE **ELEVATION:** 5207 **MAP ID:** 3

NAME:	SEARS ROEBUCK & CO	REV:	04/24/12
ADDRESS:	1701 W 6TH AVE	ID1:	3026
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	
CONTACT:		PHONE:	
SOURCE:	COSTIS		

OWNER INFORMATION
OWNER ID NUMBER: 4762
OWNER NAME: SEARS ROEBUCK & CO;
OWNER ADDRESS: SEARS TOWER
CHICAGO IL 60684

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 6000
TANK ID: 8317
TANK TAG: 3026-1

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 4000
TANK ID: 8318
TANK TAG: 3026-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3026

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 235 **DIST/DIR:** 0.03 SE **ELEVATION:** 5207 **MAP ID:** 3

NAME: 7TH & OSAGE
ADDRESS: 7TH & OSAGE
DENVER CO
DENVER

CONTACT:
SOURCE: CDPHE

REV: 12/01/08
ID1: LTT-88
ID2:
STATUS: UNKNOWN
PHONE:

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS).

This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 238 **DIST/DIR:** 0.03 SE **ELEVATION:** 5207 **MAP ID:** 3

NAME: SEARS ROEBUCK & CO
ADDRESS: 1701 W 6TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 8481
ID2:
STATUS: LUST TRUST
PHONE:

LUST INFORMATION
STATUS: LUST Trust
LOG DATE: 3/20/2001

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8481

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 137 **DIST/DIR:** 0.03 SW **ELEVATION:** **MAP ID:** 4

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	ON ATHLETIC FIELD, SEC 6TH & FEDER	ID1:	128
	DENVER CO	ID2:	00070-0000672
	DENVER	STATUS:	HISTORIC
CONTACT:		PHONE:	
SOURCE:	CDPHE/COUNTY		

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

SETTLING PRESENT: NO
ACCORDING TO DHH DATABASE, NO VISIBLE TRASH, NO SETTLEMENT, NO METHANE FOUND
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 54 DIST/DIR: 0.04 SW ELEVATION: 5252 MAP ID: 5

NAME: CORNER OF 6TH AND FEDERAL
ADDRESS: DENVER CO 80211
DENVER
CONTACT: NRC
SOURCE: NRC
REV: 12/31/01
ID1: NRC-582019
ID2:
STATUS: FIXED
PHONE:

SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:10/5/2001 12:14:16 AM DATE COMPLETE:10/5/2001 12:20:02 AM
CALL TAKER:CALL TYPE:INC

RESPONSIBLE PARTY:

PHONE #1:
PHONE #2:
PHONE #3:

RESPONSIBLE COMPANY: DAYS INN MOTEL
ORGANIZATION TYPE: PRIVATE ENTERPRISE

ADDRESS:
DENVER CO 80211

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: THE MATERIAL IS BEING DUMPED IN THE SEWER THROUGH THE SUMP PUMP IN THE BASEMENT OF THE MOTEL. THIS IS RESTAURANT WASTE FROM THE RESTAURANT IN THE MOTEL.

INCIDENT TYPE: FIXED INCIDENT CAUSE: DUMPING
INCIDENT DATE: 10/4/2001 INCIDENT DATE DESC: DISCOVERED
DISTANCE FROM CITY: DISTANCE UNITS:
DIRECTION FROM CITY: LOCATION SECTION:
LOCATION TOWNSHIP: LOCATION RANGE:

AIRCRAFT TYPE: UNKNOWN AIRCRAFT MODEL:
AIRCRAFT ID: AIRCRAFT FUEL CAPACITY:
AIRCRAFT FUEL CAPACITY UNITS: AIRCRAFT FUEL ON BOARD:
AIRCRAFT FUEL ON BOARD UNITS: AIRCRAFT SPOT NUMBER:
AIRCRAFT HANGER: AIRCRAFT RUNWAY NUM:
ROAD MILE MARKER: BUILDING ID:
TYPE OF FIXED OBJECT: UNKNOWN POWER GEN FACILITY:
GENERATING CAPACITY: TYPE OF FUEL:
NPDES: NPDES COMPLIANCE:
PIPELINE TYPE: DOT REGULATED:
PIPELINE ABOVE GROUND: EXPOSED UNDERWATER:
PIPELINE COVERED: GRADE CROSSING:
LOCATION SUBDIVISION: RAILROAD MILEPOST:
TYPE VEHICLE INVOLVED: CROSSING DEVICE TYPE:
DEVICE OPERATIONAL:

DOT CROSSING NUMBER: BRAKE FAILURE:
TANK ABOVE GROUND: TRANSPORTABLE CONTAINER:
TANK REGULATED: TANK REGULATED BY:
TANK ID: CAPACITY OF TANK:
CAPACITY OF TANK UNITS: ACTUAL AMOUNT:
ACTUAL AMOUNT UNITS: PLATFORM RIG NAME:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 54 DIST/DIR: 0.04 SW ELEVATION: 5252 MAP ID: 5

NAME: REV: 12/31/01
ADDRESS: CORNER OF 6TH AND FEDERAL ID1: NRC-582019
DENVER CO 80211 ID2:
DENVER STATUS: FIXED
CONTACT: PHONE:
SOURCE: NRC

PLATFORM LETTER:LOCATION AREA ID:
LOCATION BLOCK ID:

DESCRIPTION OF TANK:

OCSG NUMBER:OCSF NUMBER:
STATE LEASE NUMBER:PIER DOCK NUMBER:
BERTH SLIP NUMBER:CONTIN RELEASE TYPE:
INITIAL CONT RELEASE NUM:CONT RELEASE PERMIT:
ALLISION:TYPE OF STRUCTURE:
STRUCTURE NAME:STRUCT OPERATIONAL:
AIRBAG DEPLOYED:DATE NORMAL SERVICE:
SERVICE DISRUPT TIME:SERVICE DISRUPT UNITS:
TRANSIT BUS FLAG:CR BEGIN DATE:
CR END DATE:CR CHANGE DATE:

FIRE INVOLVED:NOFIRE EXTINGUISHED:UNKNOWN
ANY EVACUATIONS:NONUMBER EVACUATED:
WHO EVACUATED:RADIUS OF EVACUATION:
ANY INJURIES:NONUMBER INJURED:
NUMBER HOSPITALIZED:ANY FATALITIES:NO
NUMBER FATALITIES:ANY DAMAGES:NO
DAMAGE AMOUNT:AIR CORRIDOR CLOSED:NO
AIR CORRIDOR DESC:AIR CLOSURE TIME:
WATERWAY CLOSED:NOWATERWAY DESC:
WATERWAY CLOSURE TIME:ROAD CLOSED:NO
ROAD DESC:ROAD CLOSURE TIME:
CLOSURE DIRECTION:MAJOR ARTERY:NO

TRACK CLOSED:NOTRACK DESC:
TRACK CLOSURE TIME:MEDIA INTEREST:NONE
MEDIUM DESC:WATERADDTL MEDIUM INFO:SEWER
BODY OF WATER:SEWERTRIBUTARY OF:
NEAREST RIVER MILE MARK:RELEASE SECURED:UNKNOWN
EST DUR OF RELEASE:RELEASE RATE:
TRACK CLOSE DIR:ST AGENCY ON SCENE:
ST AGENCY RPT NUM:OTHER AGENCY NOTIFIED:
WEATHER CONDITIONS:AIR TEMPERATURE:
WIND SPEED:WIND DIRECTION:
WATER SUPPLY CONTAM:NOSHEEN SIZE:
SHEEN COLOR:DIR OF SHEEN TRAVEL:
SHEEN ODOR DESCRIPTION:WAVE CONDITION:
CURRENT SPEED:CURRENT DIRECTION:
WATER TEMPERATURE:

DESC OF REMEDIAL ACTION:NONE

EMPL FATALITY:PASS FATALITY:
COMMUNITY IMPACT:NOWIND SPEED UNITS:
EMPLOYEE INJURIES:PASSENGER INJURIES:

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 54 **DIST/DIR:** 0.04 SW **ELEVATION:** 5252 **MAP ID:** 5

NAME:		REV:	12/31/01
ADDRESS:	CORNER OF 6TH AND FEDERAL DENVER CO 80211 DENVER	ID1:	NRC-582019
CONTACT:		ID2:	
SOURCE:	NRC	STATUS:	FIXED
		PHONE:	

OCCUPANT FATALITY:CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:STATE AGENCY NOTIFIED:
FED AGENCY NOTIFIED:NEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:SHEEN SIZE WIDTH UNITS:
OFFSHORE:NDURATION UNIT:
RELEASE RATE UNIT:RELEASE RATE RATE:

ADDITIONAL INFO:THE CALLER HAD NO OTHER INFORMATION.

MATERIAL INFORMATION

CHRIS CODE:NCCCASE NUMBER:000000-00-0
UN NUMBER:REACHED WATER:YES

NAME OF MATERIAL:RESTAURANT WASTE
AMOUNT OF MATERIAL:0 UNKNOWN AMOUNT
AMOUNT IN WATER:0 UNKNOWN AMOUNT

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SPILLS

SEARCH ID: 131 **DIST/DIR:** 0.04 SW **ELEVATION:** 5252 **MAP ID:** 5

NAME: DAYS INN MOTEL **REV:**
ADDRESS: CORNER OF 6TH AND FEDERAL **ID1:** 2001-424
DENVER CO 80211 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: CDPHE

PRP INFORMATION
PRP NAME: DAYS INN MOTEL
PRP CONTACT:
PRP ADDRESS: CORNER OF 6TH AND FEDERAL
DENVER CO 80211-

SPILL INFORMATION
EVENT DATE: 10/4/2001
MATERIAL TYPE: UNKNOWN

MATERIAL1: RESTAURANT WASTE
QUANTITY1: 0 UNKNOWN
WATER QUANTITY1: 0 UNKNOWN

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: FIXED FACILITY
SOURCE TYPE: RESTAURANT
MEDIUM: WATER
WATERWAY: SEWER
CAUSE: DUMPING
CAUSE INFO: THE MATERIAL IS BEING DUMPED IN THE SEWER THROUGH THE SUMP PUMP IN THE BASEMENT OF THE MOTEL. THIS IS RESTAURANT WASTE FROM THE RESTAURANT LOC

ACTION: NONE

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 98 **DIST/DIR:** 0.04 SE **ELEVATION:** **MAP ID:** 6

NAME:	FROG HOLLOW PARK TRAIL IMPROVEMENTS	REV:	10/25/11
ADDRESS:	I-25 & 6 AVE	ID1:	110043500020
	DENVER CO 80204	ID2:	COG073661
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NPDESPROGRAM ID:COG073661
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 143 **DIST/DIR:** 0.04 SW **ELEVATION:** **MAP ID:** 7

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	APPROX.: BETWEEN KNOX CT. AND JULI DENVER CO DENVER	ID1:	129
CONTACT:		ID2:	00070-0000673
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

METHANE PRESENT: YES
SETTLING PRESENT: NO
NO VISIBLE TRASH
NO SETTLEMENT, NO METHANE FOUND
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 28 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL **REV:** 1/10/12
ADDRESS: 550 BRYANT **ID1:** COD983800780
DENVER CO 80204 **ID2:**
DENVER **STATUS:** VGN
CONTACT: **PHONE:**
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: MAKI BRIAN
550 BRYANT
DENVER CO 80204

PHONE: 3036291105

OWNER NAME: RYDER TRUCK RENTAL
OWNER TYPE: P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: P.O. BOX 46515
DENVER, CO 80201

UNIVERSE INFORMATION:

RECEIVED DATE: 04/26/1993

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NOENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NOGW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: NREC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NOMIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NOTSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NOONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NOUNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NOUNIV WASTE DEST FAC: N
USED OIL TRANS: N - NOUSED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NOUSED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: NUSED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 28 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL
ADDRESS: 550 BRYANT
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 1/10/12
ID1: COD983800780
ID2:
STATUS: VGN
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste
D006 - Cadmium
D007 - Chromium
D008 - Lead
D018 - Benzene
D021 - Chlorobenzene
D027 - 1,4-Dichlorobenzene
D039 - Tetrachloroethylene

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 53 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: INCIDENT
ADDRESS: 550 BRYANT ST
DENVER CO
DENVER

CONTACT:
SOURCE: NRC

REV: 12/30/08
ID1: 83-1963-CO
ID2:
STATUS:
PHONE:

INCIDENT DESCRIPTION: 3/9/83 - STORAGE TANK UNDERGROUND/ UNK
MATERIAL: GASOLINE
AMOUNT: 3000 GAL
LINK: None Available

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 89 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL
ADDRESS: 550 BRYANT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002991987
ID2: COD983800780
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983800780
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 90 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL INC
ADDRESS: 550 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983800780
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 164 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL 0155 **REV:** 04/24/12
ADDRESS: 550 BRYANT ST **ID1:** 5605
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 21531
OWNER NAME:
OWNER ADDRESS: 16155 PARK ROW STE 140
HOUSTON TX 77084

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 15279
TANK TAG: 5605-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 5000
TANK ID: 15280
TANK TAG: 5605-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 3000
TANK ID: 15281
TANK TAG: 5605-3

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 12000
TANK ID: 15282
TANK TAG: 5605-4

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 12000
TANK ID: 15283
TANK TAG: 5605-5

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 560
TANK ID: 15284
TANK TAG: 5605-6

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 560

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 164 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL 0155 **REV:** 04/24/12
ADDRESS: 550 BRYANT ST **ID1:** 5605
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

TANK ID: 15285
TANK TAG: 5605-7

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 560
TANK ID: 15286
TANK TAG: 5605-8

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 12000
TANK ID: 15287
TANK TAG: 5605-9

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 10000
TANK ID: 15288
TANK TAG: 5605-10

TANK TYPE: UST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 4000
TANK ID: 15289
TANK TAG: 5605-11

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 2500
TANK ID: 15290
TANK TAG: 5605-12

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 20000
TANK ID: 15291
TANK TAG: 5605-13

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 229 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL
ADDRESS: 550 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 7948
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/2/1999

LINK: http://costis.cdle.state.co.us/event.asp?h_id=7948

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 230 **DIST/DIR:** 0.06 SE **ELEVATION:** 5204 **MAP ID:** 8

NAME: RYDER TRUCK RENTAL INC
ADDRESS: 550 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 1320
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 11/22/1989

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1320

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 46 DIST/DIR: 0.06 SE ELEVATION: 5210 MAP ID: 9

NAME: FUJI PHOTO FILM USA INC REV: 1/10/12
ADDRESS: 501 RARITAN WAY ID1: COR000204263
DENVER CO 80204 ID2:
DENVER STATUS: NLR
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: JOSEPHINE CARPENITO
555 TAXTER RD
ELMSFORD NY 10523

PHONE: 9147898359

OWNER NAME:FUJI PHOTO FILM USA INC
OWNER TYPE:P-PRIVATE
OPERATOR:FUJI PHOTO FILM U S A INC
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:555 TAXTER RD
ELMSFORD
UNIVERSE INFORMATION:

RECEIVED DATE:02/18/2003

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 46 **DIST/DIR:** 0.06 SE **ELEVATION:** 5210 **MAP ID:** 9

NAME: FUJI PHOTO FILM USA INC
ADDRESS: 501 RARITAN WAY
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000204263
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 102 DIST/DIR: 0.06 SE ELEVATION: 5210 MAP ID: 9

NAME: FUJI PHOTO FILM USA INC
ADDRESS: 501 RARITAN WAY
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110015847547
ID2: COR000204263
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COR000204263
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 173 **DIST/DIR:** 0.06 SE **ELEVATION:** 5210 **MAP ID:** 9

NAME: ASSOCIATED STATIONER INC PROPERTY
ADDRESS: 501 RARITAN WAY
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 15421
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 18540
OWNER NAME:
OWNER ADDRESS: 501 RARITAN WAY
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15421

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 106 **DIST/DIR:** 0.06 SE **ELEVATION:** **MAP ID:** 10

NAME:	DENVER WATER WEST SIDE COMPLEX FIBER OPTIC CABLE I	REV:	10/25/11
ADDRESS:	QUIVAS AND 6TH AVE	ID1:	110041250598
	DENVER CO 80204	ID2:	COG073362
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NPDESPROGRAM ID:COG073362
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 148 DIST/DIR: 0.06 SW ELEVATION: 5331 MAP ID: 11

NAME: CCOD FIRE STATION #20 REV: 04/24/12
ADDRESS: 510 KNOX CT ID1: 8882
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 1000
OWNER NAME:
OWNER ADDRESS: 200 W 14TH AVE STE 310
DENVER CO 80202

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 550
TANK ID: 23363
TANK TAG: 8882-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 550
TANK ID: 23364
TANK TAG: 8882-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8882

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 149 **DIST/DIR:** 0.06 SW **ELEVATION:** 5331 **MAP ID:** 11

NAME:	CCOD FIRE STATION #20	REV:	
ADDRESS:	510 KNOX CT	ID1:	12053
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	UST
CONTACT:		PHONE:	
SOURCE:	COSTIS		

OWNER INFORMATION
OWNER ID NUMBER: 1000
OWNER NAME: CITY AND COUNTY OF DENVER
OWNER ADDRESS: ENVIRONMENTAL SERVICES 1391 SPEER BLVD STE 700
DENVER CO 80204

TANK INFORMATION

TANK STATUS: Permanently Out of Use- UNDERGROUND STORAGE TANK
TANK INSTALLED DATE:
TANK CAPACITY: 550 GALLONS
TANK CONTENTS: Gasoline
TANK MATERIAL OF CONSTRUCTION: Asphalt Coated or Bare Steel
PIPE MATERIAL OF CONSTRUCTION: Bare Steel

TANK STATUS: Permanently Out of Use- UNDERGROUND STORAGE TANK
TANK INSTALLED DATE:
TANK CAPACITY: 550 GALLONS
TANK CONTENTS: Diesel
TANK MATERIAL OF CONSTRUCTION: Asphalt Coated or Bare Steel
PIPE MATERIAL OF CONSTRUCTION: Bare Steel

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 157 **DIST/DIR:** 0.06 SW **ELEVATION:** 5331 **MAP ID:** 11

NAME:	HWS TECHNOLOGIES	REV:	04/24/12
ADDRESS:	504 KNOX CT	ID1:	11997
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	
CONTACT:		PHONE:	
SOURCE:	COSTIS		

OWNER INFORMATION
OWNER ID NUMBER: 16212
OWNER NAME: HWS TECHNOLOGIES;
OWNER ADDRESS: 9101 E KENYON AVE
DENVER CO 80237

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=11997

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 159 **DIST/DIR:** 0.06 SW **ELEVATION:** 5331 **MAP ID:** 11

NAME:	JOHN J HEGARTY	REV:	04/24/12
ADDRESS:	504 KNOX CT DENVER CO 80204 DENVER	ID1:	3557
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 2114
OWNER NAME: HEGARTY, JOHN
OWNER ADDRESS: 10221 E 120TH
HENDERSON CO 80640

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 9957
TANK TAG: 3557-1

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 9958
TANK TAG: 3557-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3557

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 199 **DIST/DIR:** 0.06 SW **ELEVATION:** 5331 **MAP ID:** 11

NAME: CCOD FIRE STATION #20
ADDRESS: 510 KNOX CT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 4945
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/8/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4945

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 215 **DIST/DIR:** 0.06 SW **ELEVATION:** 5331 **MAP ID:** 11

NAME: HWS TECHNOLOGIES
ADDRESS: 504 KNOX CT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3501
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 6/8/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3501

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 51 DIST/DIR: 0.07 NE ELEVATION: 5208 MAP ID: 12

NAME: IN THE BACK OF THE SHOP
ADDRESS: 635 CANOSA CT
DENVER CO 80204
DENVER
CONTACT:
SOURCE: NRC
REV: 12/31/07
ID1: NRC-841082
ID2:
STATUS: FIXED
PHONE:

SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:7/5/2007 4:28:04 PMDATE COMPLETE:7/5/2007 4:42:41 PM
CALL TAKER:CALL TYPE:INC

RESPONSIBLE PARTY:

PHONE #1:
PHONE #2:
PHONE #3:

RESPONSIBLE COMPANY:COMFORT MECHANICAL WORK // KYLE SYSTEM
ORGANIZATION TYPE:PRIVATE ENTERPRISE

ADDRESS:
DENVER CO 80204

SOURCE:TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: CALLER IS REPORTING THE DUMPING OF REFRIGERANT GASES INTO THE AIR BY THE OWNER OF A HEATING AND AIR
CONDITIONING COMPANY. CALLER STATES THAT HE DID NOT TURN IN FIVE 50 POUND BOTTLES OF REFRIGERANT GASSES TO THE RECYCLING COMPANY.
CALLER STATES HE IS DOING

INCIDENT TYPE:FIXEDINCIDENT CAUSE:DUMPING
INCIDENT DATE:6/4/2007 8:30:00 AMINCIDENT DATE DESC:DISCOVERED
DISTANCE FROM CITY:DISTANCE UNITS:
DIRECTION FROM CITY:LOCATION SECTION:
LOCATION TOWNSHIP:LOCATION RANGE:

AIRCRAFT TYPE:AIRCRAFT MODEL:
AIRCRAFT ID:AIRCRAFT FUEL CAPACITY:
AIRCRAFT FUEL CAPACITY UNITS:AIRCRAFT FUEL ON BOARD:
AIRCRAFT FUEL ON BOARD UNITS:AIRCRAFT SPOT NUMBER:
AIRCRAFT HANGER:AIRCRAFT RUNWAY NUM:
ROAD MILE MARKER:BUILDING ID:
TYPE OF FIXED OBJECT:OTHERPOWER GEN FACILITY:NO
GENERATING CAPACITY:TYPE OF FUEL:
NPDES:NPDES COMPLIANCE:UNKNOWN
PIPELINE TYPE:DOT REGULATED:UNKNOWN
PIPELINE ABOVE GROUND:ABOVEEXPOSED UNDERWATER:NO
PIPELINE COVERED:UNKNOWNGRADE CROSSING:UNKNOWN
LOCATION SUBDIVISION:RAILROAD MILEPOST:
TYPE VEHICLE INVOLVED:CROSSING DEVICE TYPE:
DEVICE OPERATIONAL:YES

DOT CROSSING NUMBER:BRAKE FAILURE:UNKNOWN
TANK ABOVE GROUND:ABOVETRANSPORTABLE CONTAINER:UNKNOWN
TANK REGULATED:UNKNOWNTANK REGULATED BY:
TANK ID:CAPACITY OF TANK:
CAPACITY OF TANK UNITS:ACTUAL AMOUNT:
ACTUAL AMOUNT UNITS:PLATFORM RIG NAME:

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 51 **DIST/DIR:** 0.07 NE **ELEVATION:** 5208 **MAP ID:** 12

NAME: IN THE BACK OF THE SHOP **REV:** 12/31/07
ADDRESS: 635 CANOSA CT **ID1:** NRC-841082
DENVER CO 80204 **ID2:**
DENVER **STATUS:** FIXED
CONTACT: **PHONE:**
SOURCE: NRC

PLATFORM LETTER:LOCATION AREA ID:
LOCATION BLOCK ID:

DESCRIPTION OF TANK:

OCSG NUMBER:OCSF NUMBER:
STATE LEASE NUMBER:PIER DOCK NUMBER:
BERTH SLIP NUMBER:CONTIN RELEASE TYPE:
INITIAL CONT RELEASE NUM:CONT RELEASE PERMIT:
ALLISION:UNKNOWN TYPE OF STRUCTURE:
STRUCTURE NAME:STRUCT OPERATIONAL:UNKNOWN
AIRBAG DEPLOYED:UNKNOWN DATE NORMAL SERVICE:
SERVICE DISRUPT TIME:SERVICE DISRUPT UNITS:
TRANSIT BUS FLAG:CR BEGIN DATE:
CR END DATE:CR CHANGE DATE:

FIRE INVOLVED:NO FIRE EXTINGUISHED:UNKNOWN
ANY EVACUATIONS:NONUMBER EVACUATED:
WHO EVACUATED:RADIUS OF EVACUATION:
ANY INJURIES:NONUMBER INJURED:
NUMBER HOSPITALIZED:ANY FATALITIES:NO
NUMBER FATALITIES:ANY DAMAGES:NO
DAMAGE AMOUNT:AIR CORRIDOR CLOSED:NO
AIR CORRIDOR DESC:AIR CLOSURE TIME:
WATERWAY CLOSED:NO WATERWAY DESC:
WATERWAY CLOSURE TIME:ROAD CLOSED:NO
ROAD DESC:ROAD CLOSURE TIME:
CLOSURE DIRECTION:MAJOR ARTERY:NO

TRACK CLOSED:NOTRACK DESC:
TRACK CLOSURE TIME:MEDIA INTEREST:NONE
MEDIUM DESC:AIRADDTL MEDIUM INFO:ATMOSPHERE
BODY OF WATER:TRIBUTARY OF:
NEAREST RIVER MILE MARK:RELEASE SECURED:UNKNOWN
EST DUR OF RELEASE:RELEASE RATE:
TRACK CLOSE DIR:ST AGENCY ON SCENE:NONE
ST AGENCY RPT NUM:NONE OTHER AGENCY NOTIFIED:
WEATHER CONDITIONS:SUNNY AIR TEMPERATURE:98
WIND SPEED:WIND DIRECTION:
WATER SUPPLY CONTAM:UNKNOWN SHEEN SIZE:
SHEEN COLOR:DIR OF SHEEN TRAVEL:
SHEEN ODOR DESCRIPTION:WAVE CONDITION:
CURRENT SPEED:CURRENT DIRECTION:
WATER TEMPERATURE:

DESC OF REMEDIAL ACTION:NONE

EMPL FATALITY:PASS FATALITY:
COMMUNITY IMPACT:WIND SPEED UNITS:
EMPLOYEE INJURIES:PASSENGER INJURIES:

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 51 **DIST/DIR:** 0.07 NE **ELEVATION:** 5208 **MAP ID:** 12

NAME: IN THE BACK OF THE SHOP
ADDRESS: 635 CANOSA CT
DENVER CO 80204
DENVER

CONTACT:

SOURCE: NRC

REV: 12/31/07
ID1: NRC-841082
ID2:
STATUS: FIXED
PHONE:

OCCUPANT FATALITY:CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:STATE AGENCY NOTIFIED:NONE
FED AGENCY NOTIFIED:NONENEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:SHEEN SIZE WIDTH UNITS:
OFFSHORE:NDURATION UNIT:
RELEASE RATE UNIT:RELEASE RATE RATE:

ADDITIONAL INFO:CALLER HAS NO ADDITIONAL INFORMATION.

MATERIAL INFORMATION

CHRIS CODE:RFGCASE NUMBER:000000-00-0
UN NUMBER:REACHED WATER:NO

NAME OF MATERIAL:REFRIGERANT GASES
AMOUNT OF MATERIAL:250 POUND(S)
AMOUNT IN WATER:

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 120 **DIST/DIR:** 0.07 SE **ELEVATION:** 5207 **MAP ID:** 13

NAME:	SKYLINE BUSINESS FORMS INC	REV:	11/1/06
ADDRESS:	550 RARITAN WAY	ID1:	110001726785
	DENVER CO 80204	ID2:	0803101723
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:			

FACILITY REGISTRATION INFORMATION:

PROGRAM:FRS
PROGRAM ID:110001726785PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:FRSLAST REPORTED:
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:FACILITY -

PROGRAM:AIRS/AFS
PROGRAM ID:0803101723PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:AIRS/AFSLAST REPORTED:12/24/2001
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:AIR MINOR - A FACILITY IS CLASSIFIED AS A CLEAN AIR ACT STATIONARY SOURCE MINOR DISCHARGER OF AIR POLLUTANTS IF: (A) POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR; OR (B) MAJOR SOURCE THRESHOLDS ARE NOT DEFINED, OR CLASSIFICATION IS UNKNOWN.

SITE TYPE:STATIONARY
INTEREST STATUS:ACTIVE
DATA QUALITY:V
LOCATION DESC:
ADDRESS TYPE:REGULAR URBAN
LAST REPORTED:
POSTED TO DATABASE:3/1/2000
DATA UPDATED:2/4/2006 8:46:49 AM
ENTERED PERSON/METHOD:REFRESH
PARENT REG ID:
CONFIDENCE IN ADDR:MEDIUM
ENFORCEMENT SENSITIVE:
REQ MANUAL REVIEW:
REASON MAN REVIEW:
SMALL BUS POLICY:
ENFORCEMENT ACTION:
DATA PUB ACCESS:YES
INTERNAL SYS ID:

FEDERAL FACILITY:NO
FEDERAL AGENCY:
TRIBAL LAND:
TRIBAL LAND NAME:
CONGRESSIONAL DIST:01
LEGISLATIVE DIST:
HYDROLOGICAL UNTIS:10190002
EPA REGION:08
AIRSHED:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 121 **DIST/DIR:** 0.07 SE **ELEVATION:** 5207 **MAP ID:** 13

NAME: SKYLINE BUSINESS FORMS INC
ADDRESS: 550 RARITAN WAY
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0001986033
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 146 **DIST/DIR:** 0.07 NW **ELEVATION:** 5252 **MAP ID:** 14

NAME: AUSTRIA MOTORS INC **REV:** 04/24/12
ADDRESS: 642 FEDERAL BLVD **ID1:** 14223
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 17662
OWNER NAME: SPARER, HELMUT
OWNER ADDRESS: 642 FEDERAL BLVD
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 3000
TANK ID: 31744
TANK TAG: 14223-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 3000
TANK ID: 31745
TANK TAG: 14223-2

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 3000
TANK ID: 31746
TANK TAG: 14223-3

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 550
TANK ID: 31747
TANK TAG: 14223-4

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=14223

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 195 **DIST/DIR:** 0.07 NW **ELEVATION:** 5252 **MAP ID:** 14

NAME: AUSTRIA MOTORS
ADDRESS: 642 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 6193
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/13/1998

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6193

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 177 **DIST/DIR:** 0.07 SE **ELEVATION:** 5208 **MAP ID:** 15

NAME:	CONRADS INC (CURRENTLY)	REV:	04/24/12
ADDRESS:	595 QUIVAS DENVER CO 80204 DENVER	ID1:	7836
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 17701
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 2000
TANK ID: 20587
TANK TAG: 7836-1

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 20588
TANK TAG: 7836-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7836

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 178 DIST/DIR: 0.07 SE ELEVATION: 5208 MAP ID: 15

NAME: CONRADS WAREHOUSE REV: 04/24/12
ADDRESS: 595 QUIVAS ID1: 13770
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 17474
OWNER NAME: CHESLIN; HUGH
OWNER ADDRESS: 785 VALLEJO ST
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13770

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 237 **DIST/DIR:** 0.07 SE **ELEVATION:** 5208 **MAP ID:** 15

NAME: CONRADS WAREHOUSE
ADDRESS: 595 QUIVAS
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 5751
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 10/18/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5751

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 119 **DIST/DIR:** 0.08 SE **ELEVATION:** **MAP ID:** 16

NAME: SKYLINE BUSINESS FORMS INC
ADDRESS: 550 RARITAN WAY
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110038610795
ID2: 0803101723
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101723
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 23 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DENVER PUBLIC SCHOOL SERVICE BUILDING **REV:** 1/10/12
ADDRESS: 2800 W 7TH AVE **ID1:** COD980962252
DENVER CO 80204 **ID2:**
DENVER **STATUS:** SGN
CONTACT: **PHONE:**
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: JONI RIX
E 33RD AVE
DENVER CO 80205

PHONE: 7204245454

OWNER NAME: DENVER PUBLIC SCHOOLS
OWNER TYPE: D-DISTRICT
OPERATOR: DENVER PUBLIC SCHOOLS SERVICE BUILDING
OPERATOR_TYPE: D-DISTRICT
MAILING ADDRESS: 1350 E 33RD AVE
UNIVERSE INFORMATION:

RECEIVED DATE: 10/15/2009

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NOENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NOGW CONTROLS: N- NO
LAND TYPE: D-DISTRICT SHORT TERM GEN: N
TRANS FACILITY: NREC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NOMIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NOTSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NOONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NOUNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NOUNIV WASTE DEST FAC: N
USED OIL TRANS: N - NOUSED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NOUSED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: NUSED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

61111 - ELEMENTARY AND SECONDARY SCHOOLS
61171 - EDUCATIONAL SUPPORT SERVICES

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 23 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME:	DENVER PUBLIC SCHOOL SERVICE BUILDING	REV:	1/10/12
ADDRESS:	2800 W 7TH AVE	ID1:	COD980962252
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	SGN
CONTACT:		PHONE:	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

VIOLATION NUMBER: 1 RESPONSIBLE: S - STATE
DETERMINED: 11/25/2011 DETERMINED BY: S - STATE
CITATION: RESOLVED: 11/25/2011
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 2 RESPONSIBLE: S - STATE
DETERMINED: 11/25/2011 DETERMINED BY: S - STATE
CITATION: RESOLVED: 11/25/2011
TYPE: USED OIL - GENERATORS

VIOLATION NUMBER: 3 RESPONSIBLE: S - STATE
DETERMINED: 11/25/2011 DETERMINED BY: S - STATE
CITATION: RESOLVED: 11/25/2011
TYPE: UNIVERSAL WASTE - GENERAL

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste
D003 - Reactive waste
D005 - Barium
D007 - Chromium
D008 - Lead
D039 - Tetrachloroethylene
F001 - The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
P075 - Nicotine, & salts (OR) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts
U006 - Acetyl chloride (C,R,T)
U056 - Benzene, hexahydro- (l) (OR) Cyclohexane (l)
U122 - Formaldehyde
U165 - Naphthalene
U188 - Phenol

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 64 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DENVER PUBLIC SCH SVC BUILDING
ADDRESS: 2800 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD980962252
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 65 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME:	DENVER PUBLIC SCHOOL SERVICE BUILDING	REV:	10/25/11
ADDRESS:	2800 W 7TH AVE	ID1:	110009560233
	DENVER CO 80204	ID2:	COD980962252
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:EISPROGRAM ID:1552811
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEICO1645
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RCRAINFOPROGRAM ID:COD980962252
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:AIRS/AFSPROGRAM ID:0803101645
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ECOMAPPROGRAM ID:COM000000717
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 154 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DPS HILL TOP FUEL FAC **REV:** 04/24/12
ADDRESS: 2800 W 7TH AVE **ID1:** 7513
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 1770
OWNER NAME:
OWNER ADDRESS: 2800 W 7TH AVE
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 20000
TANK ID: 19775
TANK TAG: 7513-1

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 10000
TANK ID: 19776
TANK TAG: 7513-2

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 19777
TANK TAG: 7513-3

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 19778
TANK TAG: 7513-4

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 250
TANK ID: 19779
TANK TAG: 7513-5

TANK TYPE: UST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 8000
TANK ID: 19780
TANK TAG: 7513-6

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 2000

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 154 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DPS HILL TOP FUEL FAC **REV:** 04/24/12
ADDRESS: 2800 W 7TH AVE **ID1:** 7513
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

TANK ID: 19781
TANK TAG: 7513-7

TANK TYPE: UST
TANK CONTENTS: Transmission Fluid
TANK CAPACITY: 6000
TANK ID: 19782
TANK TAG: 7513-8

TANK TYPE: UST
TANK CONTENTS: Ethyleneglycol/Anti Freeze
TANK CAPACITY: 6000
TANK ID: 19783
TANK TAG: 7513-9

TANK TYPE: UST
TANK CONTENTS: Z Hazardous Substance
TANK CAPACITY: 1000
TANK ID: 19784
TANK TAG: 7513-10

TANK TYPE: LPG
TANK CONTENTS: LPG
TANK CAPACITY: 1999
TANK ID: 36197
TANK TAG: 7513-11

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 206 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME:	DPS HILL TOP FUEL FAC	REV:	04/24/12
ADDRESS:	2800 W 7TH AVE	ID1:	10932
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/11/2009 6:50:32 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10932

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 207 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DPS SERVICE BLDG
ADDRESS: 2800 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3964
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/25/1989

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3964

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 208 **DIST/DIR:** 0.09 NW **ELEVATION:** 5253 **MAP ID:** 17

NAME: DPS SERVICE BLDG
ADDRESS: 2800 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV:
ID1: 6562
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/15/98

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 32 DIST/DIR: 0.09 NE ELEVATION: 5222 MAP ID: 18

NAME: THE GLIDDEN CO REV: 1/10/12
ADDRESS: 637 OSAGE ST ID1: COR000202747
DENVER CO 80204 ID2:
DENVER STATUS: VGN
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: RHONDA CROSS
925 EUCLID AVE
CLEVELAND OH 44120

PHONE: 2163448431

OWNER NAME:THE GLIDDEN CO
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:925 EUCLID AVE
CLEVELAND, OH 44115

UNIVERSE INFORMATION:

RECEIVED DATE:09/16/2002

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 32 **DIST/DIR:** 0.09 NE **ELEVATION:** 5222 **MAP ID:** 18

NAME: THE GLIDDEN CO
ADDRESS: 637 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000202747
ID2:
STATUS: VGN
PHONE:

- PAINT AND WALLPAPER STORES

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 122 **DIST/DIR:** 0.09 NE **ELEVATION:** 5222 **MAP ID:** 18

NAME: THE GLIDDEN CO
ADDRESS: 637 OSAGE ST
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110012236883
ID2: COR000202747
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COR000202747
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:BRPROGRAM ID:COR000202747
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 57 **DIST/DIR:** 0.09 SE **ELEVATION:** 5205 **MAP ID:** 19

NAME:	AGRICULTURAL INDUSTRIAL CHEMICALS AKA HORTICULTURA	REV:	10/25/11
ADDRESS:	510 BRYANT ST	ID1:	110018930317
	DENVER CO 80204	ID2:	6680882
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NCDBPROGRAM ID:I08#2004051213582 1
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ICISPROGRAM ID:6680882
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 147 **DIST/DIR:** 0.09 SE **ELEVATION:** 5205 **MAP ID:** 19

NAME: BRYANT CONVENIENCE **REV:** 04/24/12
ADDRESS: 510 BRYANT ST **ID1:** 10653
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 20961
OWNER NAME:
OWNER ADDRESS: 510 BRYANT ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 29008
TANK TAG: 10653-1

TANK TYPE: UST
TANK CONTENTS: 3 - Unleaded Premium (PUL)
TANK CAPACITY: 3000
TANK ID: 29009
TANK TAG: 10653-2

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 3000
TANK ID: 29010
TANK TAG: 10653-3

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 300
TANK ID: 29011
TANK TAG: 10653-4

TANK TYPE: LPG
TANK CONTENTS: LPG
TANK CAPACITY: 1000
TANK ID: 36100
TANK TAG: 10653-5

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10653

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 197 **DIST/DIR:** 0.09 SE **ELEVATION:** 5205 **MAP ID:** 19

NAME: BRYANT CONVENIENCE
ADDRESS: 510 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 10429
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/6/2007 3:10:26 PM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10429

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 198 **DIST/DIR:** 0.09 SE **ELEVATION:** 5205 **MAP ID:** 19

NAME:	BRYANT STREET PHILLIPS	REV:	04/24/12
ADDRESS:	510 BRYANT ST	ID1:	10078
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	OPEN
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Open
LOG DATE: 5/12/2006 1:56:35 PM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10078

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 83 **DIST/DIR:** 0.09 NE **ELEVATION:** 5207 **MAP ID:** 20

NAME: ROBINSON DAIRY INC
ADDRESS: 646 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0002416790
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 84 **DIST/DIR:** 0.09 NE **ELEVATION:** 5207 **MAP ID:** 20

NAME: ROBINSON DAIRY INC
ADDRESS: 646 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110010689139
ID2: 25812
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:ICISPROGRAM ID:25812
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

DOCKET

SEARCH ID: 265 **DIST/DIR:** 0.09 NE **ELEVATION:** 5207 **MAP ID:** 20

NAME:	ROBINSON DAIRY INC	REV:	1/30/07
ADDRESS:	646 BRYANT ST	ID1:	08-1998-0105
	DENVER CO 80204	ID2:	08-1998-0105
	DENVER	STATUS:	ICIS
CONTACT:		PHONE:	
SOURCE:	EPA		

SITE INFORMATION

ICIS = INTEGRATED COMPLIANCE INFORMATION SYSTEM

ENFORCEMENT NUMBER:08-1998-0105
ACTION TYPE:ADMINISTRATIVE - FORMAL
ACTIVITY STATUS:CLOSED
COURT DOCKET NUM:EPCRA-VIII-98-02
HQ DIVISION:TOX
ENFORCEMENT OUTCOME:FINAL ORDER WITH PENALTY
BRANCH:
VOL SELF DISCLOSURE:

ENFORCEMENT TYPE:EPCRA 325 AO FOR COMPLIANCE AND/OR PENALTY
VIOLATION TYPE:
REFIEF REQUESTED:

DEFENDANT NAME:ROBINSON DAIRY, INC.
NAMED IN COMPLAINT:YES
NAMED IN SETTLEMENT:YES

CONCLUSION ID:36353
CONCLUSION NAME:ROBINSON DAIRY, INC.
SETTLE LODGE DATE:06/25/1998
SETTLE ENTERED DATE:06/25/1998
PENALTY SOUGHT AMT:\$1,295
FED PENALTY ACCESSED AMT:\$1,295
LOCAL PENALTY AMT:
TOTAL SEP AMT(DERIVED):\$5,000
COMP ACTION AMT:
COST REC AWARDED AMT:

CASE SUMMARY:

ADMINISTRATIVE ORDER ISSUED TO ROBINSON DAIRY, INC. FOR FAILURE TO SUBMIT A COMPLETED EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY FORM FOR ANHYDROUS AMMONIA AND DIESEL FUEL ON OR BEFORE MARCH 1, 1997, AND FOR STORAGE OF HAZARDOUS CHEMICALS AT THE FACILITY WHICH EXCEEDED THE AMOUNT EQUAL TO OR GREATER THAN THE THRESHOLDS ESTABLISHED IN 40 CFR PART 370. PROPOSED PENALTY IS \$7,970.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 109 **DIST/DIR:** 0.09 NE **ELEVATION:** 5222 **MAP ID:** 21

NAME: EMPRESS CHINCHILLA BREEDERS CO
ADDRESS: 627 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD980452874
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 110 **DIST/DIR:** 0.09 NE **ELEVATION:** 5222 **MAP ID:** 21

NAME: JOHN PHILLIPS PRINTING
ADDRESS: 627 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0000755454
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 112 **DIST/DIR:** 0.09 NE **ELEVATION:** 5222 **MAP ID:** 21

NAME: JOHN PHILLIPS PRINTING **REV:** 11/1/06
ADDRESS: 627 OSAGE ST **ID1:** 110001724894
DENVER CO 80204 **ID2:** 0803101356
DENVER **STATUS:** FRS
CONTACT: **PHONE:**
SOURCE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFS
PROGRAM ID:0803101356PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:AIRS/AFSLAST REPORTED:11/1/2001
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:AIR MINOR - A FACILITY IS CLASSIFIED AS A CLEAN AIR ACT STATIONARY SOURCE MINOR DISCHARGER OF AIR POLLUTANTS IF: (A) POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR; OR (B) MAJOR SOURCE THRESHOLDS ARE NOT DEFINED, OR CLASSIFICATION IS UNKNOWN.

PROGRAM:FRS
PROGRAM ID:110001724894PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:FRSLAST REPORTED:
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:FACILITY -

SITE TYPE:STATIONARY
INTEREST STATUS:ACTIVE
DATA QUALITY:V
LOCATION DESC:
ADDRESS TYPE:REGULAR URBAN
LAST REPORTED:
POSTED TO DATABASE:3/1/2000
DATA UPDATED:2/4/2006 8:50:47 AM
ENTERED PERSON/METHOD:REFRESH
PARENT REG ID:
CONFIDENCE IN ADDR:MEDIUM
ENFORCEMENT SENSITIVE:
REQ MANUAL REVIEW:
REASON MAN REVIEW:
SMALL BUS POLICY:
ENFORCEMENT ACTION:
DATA PUB ACCESS:YES
INTERNAL SYS ID:

FEDERAL FACILITY:NO
FEDERAL AGENCY:
TRIBAL LAND:
TRIBAL LAND NAME:
CONGRESSIONAL DIST:01
LEGISLATIVE DIST:
HYDROLOGICAL UNTIS:10190002
EPA REGION:08
AIRSHED:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 44 DIST/DIR: 0.10 NE ELEVATION: 5206 MAP ID: 22

NAME: SQUARE D COMPANY REV: 1/10/12
ADDRESS: 677 ALCOTT ID1: COD007084155
DENVER CO 80204 ID2:
DENVER STATUS: NLR
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: E.S. GUNDERMAN
677 ALCOTT STREET
DENVER CO 80204

PHONE: 3035348281

OWNER NAME:SQUARE D COMPANY
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:677 ALCOTT STREET
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:11/30/1995

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 44 **DIST/DIR:** 0.10 NE **ELEVATION:** 5206 **MAP ID:** 22

NAME: SQUARE D COMPANY
ADDRESS: 677 ALCOTT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD007084155
ID2:
STATUS: NLR
PHONE:

- SWITCHGEAR AND SWITCHBOARD APPARATUS MANUFACTURING

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 93 **DIST/DIR:** 0.10 NE **ELEVATION:** 5206 **MAP ID:** 22

NAME: SQUARE D CO
ADDRESS: 677 ALCOTT
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD007084155
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 94 **DIST/DIR:** 0.10 NE **ELEVATION:** 5206 **MAP ID:** 22

NAME: SQUARE D COMPANY
ADDRESS: 677 ALCOTT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002963641
ID2: COD007084155
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD007084155
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 48 DIST/DIR: 0.10 SE ELEVATION: 5206 MAP ID: 23

NAME: DUPONT DE NEMOURS & CO REV: 1/10/12
ADDRESS: 555 QUIVAS ST ID1: COT090011297
DENVER CO 80217 ID2:
DENVER STATUS: NLR
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: T E FOURACRE
P O BOX 17236
DENVER CO 80217

PHONE: 3035711928

OWNER NAME:FAIRVIEW LTD C/O JOHN H TIPPET
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: P O BOX 17236
DENVER, CO 80217

UNIVERSE INFORMATION:

RECEIVED DATE:03/03/1981

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 48 **DIST/DIR:** 0.10 SE **ELEVATION:** 5206 **MAP ID:** 23

NAME: DUPONT DE NEMOURS & CO
ADDRESS: 555 QUIVAS ST
DENVER CO 80217
DENVER

REV: 1/10/12
ID1: COT090011297
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D002 - Corrosive waste

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 107 **DIST/DIR:** 0.10 SE **ELEVATION:** 5206 **MAP ID:** 23

NAME: DUPONT DE NEMOURS & CO
ADDRESS: 555 QUIVAS ST
DENVER CO 80217
DENVER

CONTACT:
SOURCE:

REV:
ID1: COT090011297
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 108 **DIST/DIR:** 0.10 SE **ELEVATION:** 5206 **MAP ID:** 23

NAME: DUPONT DE NEMOURS & CO
ADDRESS: 555 QUIVAS ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110003004249
ID2: COT090011297
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COT090011297
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

ERNS

SEARCH ID: 52 **DIST/DIR:** 0.10 SE **ELEVATION:** 5206 **MAP ID:** 24

NAME: INCIDENT
ADDRESS: 5TH & BRYANT
DENVER CO
DENVER

REV: 12/30/08
ID1: 88-18141-CO
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: NRC

INCIDENT DESCRIPTION: 9/30/88 - TRUCK RENTAL FACILITY UNKNOWN
MATERIAL: OILS: DIESEL
AMOUNT: 140 GAL
LINK: None Available

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SPILLS

SEARCH ID: 132 **DIST/DIR:** 0.10 SE **ELEVATION:** 5206 **MAP ID:** 25

NAME: DENVER SEWER DEPT/PUBLIC WORKS
ADDRESS: 5TH AND BRYANT STREETS
DENVER CO
DENVER

REV:
ID1: CO96-455
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: CDPHE

PRP INFORMATION
PRP NAME: DENVER SEWER DEPT/PUBLIC WORKS
PRP CONTACT:
PRP ADDRESS: 2000 W THIRD AVENUE
DENVER CO 80223-

SPILL INFORMATION
EVENT DATE: 7/17/1996
MATERIAL TYPE: OIL

MATERIAL1: OILS,DIESEL
QUANTITY1: 40 GALLONS
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: HIGHWAY
SOURCE TYPE: TRUCK
MEDIUM: WATER AND LAND
WATERWAY: RIVER
CAUSE: OTHER
CAUSE INFO: OBSTRUCTION TORE OPEN TRUCK FUEL TANK

ACTION: SPILL CONTAINED, BOOMS USED ON RIVER, SURFACE CLEANED & WILL BE DISPOSED.

RESPONSE COMMENTS:

COMMENTS: PRP SECURED LEAK, PLACED BOOMS ON RIVER, SURFACE CLEANED & WILL BE DISPOSED. CONTAINED, SPILL ON ASPHALT PAVEMENT TO DRAIN TO CONCRETE PIPE TO RIVER. BOOMON RIVER, SURFACE CLEANED & WILL BE DISPOSED.

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 158 **DIST/DIR:** 0.10 NE **ELEVATION:** 5206 **MAP ID:** 26

NAME: IVER J ESBENSON CO INC
ADDRESS: 666 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 10743
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 5199
OWNER NAME: IVER J ESBENSON CO;
OWNER ADDRESS: 666 BRYANT ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 500
TANK ID: 29300
TANK TAG: 10743-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10743

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 180 **DIST/DIR:** 0.10 NE **ELEVATION:** 5221 **MAP ID:** 27

NAME:	DEVOE PAINT	REV:	04/24/12
ADDRESS:	657 OSAGE ST DENVER CO 80204 DENVER	ID1:	11260
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 1816
OWNER NAME: DEVOE & REYNOLDS CO;
OWNER ADDRESS: 400 DUPONT CIR
LOUISVILLE KY 40207

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Hazardous Substance
TANK CAPACITY: 1000
TANK ID: 30904
TANK TAG: 11260-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=11260

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 33 DIST/DIR: 0.11 NE ELEVATION: 5224 MAP ID: 28

NAME: UNION PACIFIC RR CO BURNHAM SHOPS REV: 1/10/12
ADDRESS: 680 SEMINOLE RD ID1: COD983790932
DENVER CO 80023 ID2:
DENVER STATUS: VGN
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: MARK ROSS
1416 DODGE ST, RM 930
OMAHA NE 68179

PHONE: 3039644457

OWNER NAME:DENVER RIO GRANDE WRR SP LINES
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:800 SEMINOL ROAD
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:11/03/2000

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 33 **DIST/DIR:** 0.11 NE **ELEVATION:** 5224 **MAP ID:** 28

NAME: UNION PACIFIC RR CO BURNHAM SHOPS
ADDRESS: 680 SEMINOLE RD
DENVER CO 80023
DENVER

REV: 1/10/12
ID1: COD983790932
ID2:
STATUS: VGN
PHONE:

CONTACT:
SOURCE: EPA

- LINE-HAUL RAILROADS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste
D007 - Chromium

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 105 **DIST/DIR:** 0.11 NE **ELEVATION:** 5224 **MAP ID:** 28

NAME: DENVER RIO GRANDE WESTERN RR
ADDRESS: 680 SEMINOLE RD
DENVER CO 80023
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983790932
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 124 **DIST/DIR:** 0.11 NE **ELEVATION:** 5224 **MAP ID:** 28

NAME: UNION PACIFIC RAILROAD CO. -BURNHAM SHOP
ADDRESS: 680 SEMINOLE RD
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110001427590
ID2: 0803100015
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983790932
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEICO0310015
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:AIRS/AFSPROGRAM ID:0803100015
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 179 **DIST/DIR:** 0.11 NE **ELEVATION:** 5224 **MAP ID:** 28

NAME: DENVER LOCOMOTIVE SHOP **REV:** 04/24/12
ADDRESS: 680 SEMINOLE RD **ID1:** 2293
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 5458
OWNER NAME:
OWNER ADDRESS: 280 SOUTH 400 WEST
SALT LAKE CITY UT 84101

TANK INFORMATION

TANK TYPE: AST
TANK CONTENTS: Z Other
TANK CAPACITY: 14000
TANK ID: 6442
TANK TAG: 2293-1

TANK TYPE: AST
TANK CONTENTS: Z Other
TANK CAPACITY: 14000
TANK ID: 6443
TANK TAG: 2293-2

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 35000
TANK ID: 6444
TANK TAG: 2293-3

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 15000
TANK ID: 6445
TANK TAG: 2293-4

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 8400
TANK ID: 6446
TANK TAG: 2293-5

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 35000
TANK ID: 6447
TANK TAG: 2293-6

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 35000

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 179 **DIST/DIR:** 0.11 NE **ELEVATION:** 5224 **MAP ID:** 28

NAME: DENVER LOCOMOTIVE SHOP
ADDRESS: 680 SEMINOLE RD
DENVER CO 80204
DENVER

REV: 04/24/12
ID1: 2293
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

TANK ID: 6448
TANK TAG: 2293-7

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 10000
TANK ID: 6449
TANK TAG: 2293-8

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 2000
TANK ID: 6450
TANK TAG: 2293-9

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 186 DIST/DIR: 0.11 NE ELEVATION: 5224 MAP ID: 28

NAME: SPTCO DENVER LOCOMOTIVE PLANT
ADDRESS: 680 SEMINOLE RD
DENVER CO 80204
DENVER
CONTACT:
SOURCE: COSTIS
REV: 7431
ID1:
ID2:
STATUS: UST
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 5458
OWNER NAME: UNION PACIFIC RAILROAD
OWNER ADDRESS: ATTN CRAIG DENNY 1416 DODGE ST ROOM 930
OMAHA CO 68149

TANK INFORMATION

TANK STATUS: Permanently Out of Use- UNDERGROUND STORAGE TANK
TANK INSTALLED DATE:
TANK CAPACITY: 2000 GALLONS
TANK CONTENTS: Used Oil
TANK MATERIAL OF CONSTRUCTION: Asphalt Coated or Bare Steel
PIPE MATERIAL OF CONSTRUCTION: Bare Steel

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 40 DIST/DIR: 0.11 NW ELEVATION: 5252 MAP ID: 29

NAME: MARCS AUTO CHECK REV: 1/10/12
ADDRESS: 690 FEDERAL BLVD ID1: COR000016618
DENVER CO 80204 ID2:
DENVER STATUS: NLR
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: BILL MORE
690 FEDERAL BLVD
DENVER CO 80204

PHONE: 3037610874

OWNER NAME: BILL MOORE
OWNER TYPE: P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: 690 FEDERAL BLVD
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE: 07/17/2000

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: N

INSTITUTIONAL CONTROL: N-NOENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NOGW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: NREC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NOMIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NOTSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NOONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NOUNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NOUNIV WASTE DEST FAC: N
USED OIL TRANS: N - NOUSED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NOUSED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: NUSED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 40 **DIST/DIR:** 0.11 NW **ELEVATION:** 5252 **MAP ID:** 29

NAME: MARCS AUTO CHECK
ADDRESS: 690 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000016618
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 75 **DIST/DIR:** 0.11 NW **ELEVATION:** 5252 **MAP ID:** 29

NAME: MARCS AUTO CHECK
ADDRESS: 690 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110003002928
ID2: COR000016618
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COR000016618
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 161 **DIST/DIR:** 0.11 NW **ELEVATION:** 5252 **MAP ID:** 29

NAME:	MARC S AUTOCHECK	REV:	04/24/12
ADDRESS:	690 FEDERAL BLVD DENVER CO 80204 DENVER	ID1:	15126
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 18325
OWNER NAME: MARC S AUTOCHECK;
OWNER ADDRESS: 690 FEDERAL BLVD
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 550
TANK ID: 33164
TANK TAG: 15126-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15126

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 220 **DIST/DIR:** 0.11 NW **ELEVATION:** 5252 **MAP ID:** 29

NAME: MARCS AUTOCHECK
ADDRESS: 690 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 8083
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/16/2000

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8083

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 50 **DIST/DIR:** 0.11 NE **ELEVATION:** 5206 **MAP ID:** 30

NAME: SEARS ROEBUCK AND COMPANY
ADDRESS: 701 OSAGE ST
DENVER CO 80219
DENVER

REV: 1/10/12
ID1: COD114044506
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: KEVIN KELLY
701 OSAGE ST
DENVER CO 80219

PHONE: 3038928693

OWNER NAME:SEARS ROEBUCK AND CO
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:701 OSAGE ST
DENVER, CO 80219

UNIVERSE INFORMATION:

RECEIVED DATE:06/30/1993

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 50 **DIST/DIR:** 0.11 NE **ELEVATION:** 5206 **MAP ID:** 30

NAME: SEARS ROEBUCK AND COMPANY
ADDRESS: 701 OSAGE ST
DENVER CO 80219
DENVER

REV: 1/10/12
ID1: COD114044506
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D002 - Corrosive waste

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 117 **DIST/DIR:** 0.11 NE **ELEVATION:** 5206 **MAP ID:** 30

NAME: SEARS ROEBUCK & COMPANY
ADDRESS: 701 OSAGE ST
DENVER CO 80219
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD114044506
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 118 **DIST/DIR:** 0.11 NE **ELEVATION:** 5206 **MAP ID:** 30

NAME: SEARS ROEBUCK AND COMPANY
ADDRESS: 701 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110002970651
ID2: COD114044506
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD114044506
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 184 **DIST/DIR:** 0.11 NE **ELEVATION:** 5206 **MAP ID:** 30

NAME: SEARS WAREHOUSE
ADDRESS: 701 OSAGE ST
DENVER CO 80210
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 16080
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 17683
OWNER NAME: CCOD PARKWAY CENTER;
OWNER ADDRESS: 1391 SPEER BLVD 7TH FLOOR
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16080

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SPILLS

SEARCH ID: 133 **DIST/DIR:** 0.11 SW **ELEVATION:** 5238 **MAP ID:** 31

NAME: UNKNOWN
ADDRESS: 5TH AND DECATUR
DENVER CO
DENVER

REV:
ID1: CO92-127
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: CDPHE

PRP INFORMATION
PRP NAME: UNKNOWN
PRP CONTACT:
PRP ADDRESS:

SPILL INFORMATION
EVENT DATE: 8/5/1992
MATERIAL TYPE: HAZARDOUS

MATERIAL1: POLYCHLORINATED BIPHENYLS
QUANTITY1: 0 UNKNOWN
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: UNKNOWN
SOURCE TYPE: UNKNOWN
MEDIUM: LAND
WATERWAY: NONE
CAUSE: DUMPING
CAUSE INFO: PCB CONTAINING TRANSFORMERS DUMPED IN ALLEY

ACTION: EPA REMOVAL

RESPONSE COMMENTS: DRUMS WILL BE DISPOSED OF AT APPROPRIATE FACILITY. INVESTIGATION OF RP IS PENDING.

COMMENTS: ABANDONMENT OF 16 LARGE GE PYRANOL CAPACITORS AND FOUR BOXES OF SMALLER HAD-SIZED CAPACITORS IN AN ALLEY BEHIND AN AUTO PARTS WHOLESALE. NO LEAKAGE OCCURRED. CAPACITORS WERE PLACED IN OVERPACK DRUMS AND HAULED OFF SITE PROPER DISPOSED.

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 163 **DIST/DIR:** 0.11 NE **ELEVATION:** 5203 **MAP ID:** 32

NAME:	ROBINSON DAIRY LLC	REV:	04/24/12
ADDRESS:	2400 W 7TH AVE DENVER CO 80204 DENVER	ID1:	18490
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 21171
OWNER NAME:
OWNER ADDRESS: 2515 MCKINNEY AVE
DALLAS TX 75201

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 500
TANK ID: 41157
TANK TAG: 18490-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18490

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 228 **DIST/DIR:** 0.11 NE **ELEVATION:** 5203 **MAP ID:** 32

NAME: ROBINSON DAIRY LLC
ADDRESS: 2400 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 10752
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 11/25/2008 12:40:23 PM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10752

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 43 DIST/DIR: 0.12 SE ELEVATION: 5203 MAP ID: 33

NAME: ROCKY MOUNTAIN BANK NOTE
ADDRESS: 2500 W 5TH AVE
WHEAT RIDGE CO 80153
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD980955199
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

OWNER NAME:
OWNER TYPE:
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:
,

UNIVERSE INFORMATION:

RECEIVED DATE:11/08/2002

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 88/01/1988
TYPE: WRITTEN INFORMAL

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 43 **DIST/DIR:** 0.12 SE **ELEVATION:** 5203 **MAP ID:** 33

NAME: ROCKY MOUNTAIN BANK NOTE
ADDRESS: 2500 W 5TH AVE
WHEAT RIDGE CO 80153
DENVER

REV: 1/10/12
ID1: COD980955199
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

VIOLATION INFORMATION:

VIOLATION NUMBER: 1 RESPONSIBLE: S - STATE
DETERMINED: 88/09/1988 DETERMINED BY: S - STATE
CITATION: RESOLVED: 88/19/1988
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 2 RESPONSIBLE: S - STATE
DETERMINED: 88/09/1988 DETERMINED BY: S - STATE
CITATION: RESOLVED: 88/19/1988

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 87 **DIST/DIR:** 0.12 SE **ELEVATION:** 5203 **MAP ID:** 33

NAME: ROCKY MOUNTAIN BANK NOTE
ADDRESS: 2500 W 5TH AVE
WHEAT RIDGE CO 80153
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD980955199
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 88 **DIST/DIR:** 0.12 SE **ELEVATION:** 5203 **MAP ID:** 33

NAME: ROCKY MOUNTAIN BANK NOTE
ADDRESS: 2500 W 5TH AVE
WHEAT RIDGE CO 80033
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110006488906
ID2: COD980955199
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD980955199
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 49 **DIST/DIR:** 0.12 SE **ELEVATION:** 5212 **MAP ID:** 34

NAME: PPG INDUSTRIES INC	REV: 1/10/12
ADDRESS: 590 QUIVAS ST	ID1: COD078343613
DENVER CO 80204	ID2:
DENVER	STATUS: NLR
CONTACT:	PHONE:
SOURCE: EPA	

SITE INFORMATION

CONTACT INFORMATION: BRETT LINENFELSER
7535 E HAMPDEN AVE #403
DENVER CO 802314838

PHONE: 3037435442

OWNER NAME:PPG INDUSTRIES,INC.
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:590 QUIVAS ST
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:02/14/1997

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATESHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 49 **DIST/DIR:** 0.12 SE **ELEVATION:** 5212 **MAP ID:** 34

NAME: PPG INDUSTRIES INC
ADDRESS: 590 QUIVAS ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD078343613
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 113 **DIST/DIR:** 0.12 SE **ELEVATION:** 5212 **MAP ID:** 34

NAME: PPG INDS INC
ADDRESS: 590 QUIVAS ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD078343613
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 114 **DIST/DIR:** 0.12 SE **ELEVATION:** 5212 **MAP ID:** 34

NAME: PPG INDUSTRIES INC
ADDRESS: 590 QUIVAS ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002968646
ID2: COD078343613
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD078343613
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 181 **DIST/DIR:** 0.12 SE **ELEVATION:** 5212 **MAP ID:** 34

NAME:	PPG INDUSTRIES INC	REV:	04/24/12
ADDRESS:	590 QUIVAS ST DENVER CO 80204 DENVER	ID1:	7592
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 4266
OWNER NAME: PPG INDUSTRIES INC;
OWNER ADDRESS: 590 QUIVAS ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 19972
TANK TAG: 7592-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7592

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NFRAP

SEARCH ID: 11 **DIST/DIR:** 0.13 SW **ELEVATION:** 5228 **MAP ID:** 35

NAME: DECATUR PCB CAPICITORS
ADDRESS: 2750 W 5TH AVE
DENVER CO 80204
DENVER

REV: 2/27/12
ID1: COD983794652
ID2: 0801268
STATUS: NFRAP-NFRAP-N
PHONE:

CONTACT:
SOURCE: EPA

DESCRIPTION:
ABANDONED CAPICITORS IN ALLEY. NO ID ON OWNER. PCB CONTAMINATION.
ACTION/QUALITY AGENCY/RPS START/RAA END
ARCHIVE SITEEPA In-House3/14/2006

ADMINISTRATIVE RECORDSEPA Fund-Financed19-92-8/5/1/7/1993
ADMIN RECORD COMPILED FOR A REMOVAL EVENTPrimary

REMOVALEPA Fund-Financed19-92-8/5/11/19/1992
CLEANED UPPrimary

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 34 DIST/DIR: 0.13 SW ELEVATION: 5228 MAP ID: 35

NAME: 5TH DECATUR PCB CAPACITOR CLEANUP
ADDRESS: DEN CAR POUND YORK AT BRIGHTON
DENVER CO 80202
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD983794652
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

CONTACT INFORMATION: PETER STEVENSON
US EPA 999 18TH ST SUITE 500
DENVER CO 80202

PHONE: 3032931723

OWNER NAME:CITY & COUNTY OF DENVER
OWNER TYPE:C-COUNTY
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: US EPA 999 18TH ST SUITE 500
DENVER, CO 80202

UNIVERSE INFORMATION:

RECEIVED DATE:08/13/1992

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:C-COUNTYSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 34 **DIST/DIR:** 0.13 SW **ELEVATION:** 5228 **MAP ID:** 35

NAME: 5TH DECATUR PCB CAPACITOR CLEANUP
ADDRESS: DEN CAR POUND YORK AT BRIGHTON
DENVER CO 80202
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD983794652
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 55 **DIST/DIR:** 0.13 SW **ELEVATION:** 5228 **MAP ID:** 35

NAME: 5TH & DECATUR PCB CAPACITOR CLEANUP
ADDRESS: 2750 W 5TH AVE
DENVER CO 80202
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983794652
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 63 **DIST/DIR:** 0.13 SW **ELEVATION:** 5228 **MAP ID:** 35

NAME: DECATUR PCB CAPACITORS
ADDRESS: 2750 W 5TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110009271082
ID2: COD983794652
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983794652
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 92 **DIST/DIR:** 0.13 NW **ELEVATION:** **MAP ID:** 36

NAME:	SHELL S FINE PRINT	REV:	10/25/11
ADDRESS:	2943 WEST 7TH AVE	ID1:	110038611124
	DENVER CO 80204	ID2:	0803100308
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803100308
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RELEASES

SEARCH ID: 260 **DIST/DIR:** 0.14 NE **ELEVATION:** 5200 **MAP ID:** 37

NAME: UNKNOWN
ADDRESS: 7TH STREET & PLATTE RIVER/NEAR SPE
DENVER CO
DENVER

CONTACT:
SOURCE:

REV: 11/13/90 0
ID1: 187885
ID2:
STATUS: UNKNOWN (NRC)
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 111 **DIST/DIR:** 0.14 NE **ELEVATION:** **MAP ID:** 38

NAME:	JOHN PHILLIPS PRINTING	REV:	10/25/11
ADDRESS:	627 OSAGE ST	ID1:	110038610571
	DENVER CO 80204	ID2:	0803101356
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101356
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 168 **DIST/DIR:** 0.14 NE **ELEVATION:** 5209 **MAP ID:** 39

NAME:	ELMS INVESTMENT	REV:	04/24/12
ADDRESS:	730 UMATILLA ST DENVER CO 80204 DENVER	ID1:	2969
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 411
OWNER NAME: ELMS INVESTMENT;
OWNER ADDRESS: 6825 E TENNESSEE BLDG 1 STE 235
DENVER CO 80224

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 8144
TANK TAG: 2969-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 8145
TANK TAG: 2969-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2969

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 169 **DIST/DIR:** 0.14 NE **ELEVATION:** 5209 **MAP ID:** 39

NAME: ELMS INVESTMENT PROPERTY
ADDRESS: 730 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 13424
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 17352
OWNER NAME: ELMS INVESTMENT CO;
OWNER ADDRESS: 370 17TH ST 26TH FLOOR
DENVER CO 80202

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13424

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 209 **DIST/DIR:** 0.14 NE **ELEVATION:** 5209 **MAP ID:** 39

NAME: ELMS INVESTMENT PROPERTY
ADDRESS: 730 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 5434
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/31/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5434

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 36 **DIST/DIR:** 0.15 SW **ELEVATION:** 5253 **MAP ID:** 40

NAME: BLAIR LABELING SYSTEMS INC	REV: 1/10/12
ADDRESS: 425 FEDERAL BLVD	ID1: COD982596694
DENVER CO 80204	ID2:
DENVER	STATUS: NLR
CONTACT:	PHONE:
SOURCE: EPA	

SITE INFORMATION

CONTACT INFORMATION: GEORGE BLAIR
425 FEDERAL BLVD
DENVER CO 80204

PHONE: 3039354254

OWNER NAME:BLAIR GEORGE F.
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:425 FEDERAL BLVD
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:02/23/1995

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 36 DIST/DIR: 0.15 SW ELEVATION: 5253 MAP ID: 40

NAME: BLAIR LABELING SYSTEMS INC
ADDRESS: 425 FEDERAL BLVD
DENVER CO 80204
DENVER

REV: 1/10/12
ID1: COD982596694
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

F001 - The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 58 **DIST/DIR:** 0.15 SW **ELEVATION:** 5253 **MAP ID:** 40

NAME: BLAIR LABELING SYSTEMS INC
ADDRESS: 425 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD982596694
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 59 **DIST/DIR:** 0.15 SW **ELEVATION:** 5253 **MAP ID:** 40

NAME: BLAIR LABELING SYSTEMS INC
ADDRESS: 425 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002980953
ID2: COD982596694
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD982596694
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 91 **DIST/DIR:** 0.15 NW **ELEVATION:** 5250 **MAP ID:** 41

NAME: SHELL CHEMICAL COMPANY
ADDRESS: 2943 W 7TH AVE
UNK CO 99999
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002365253
ID2: NEICOLF8326
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:NEIPROGRAM ID:NEICOLF8326
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 138 **DIST/DIR:** 0.15 SE **ELEVATION:** **MAP ID:** 42

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	BOUNDARIES APPROXIMATE: BOUNDED BY DENVER CO DENVER	ID1:	130
CONTACT:		ID2:	00070-0000674
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

METHANE PRESENT: NO
NO METHANE FOUND
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
NO VISIBLE TRASH
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 30 DIST/DIR: 0.16 NE ELEVATION: 5208 MAP ID: 43

NAME: E N MURRAY CO INC
ADDRESS: 707 UMATILLA ST
DENVER CO 80204
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD983772815
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: RONALD COWLTHORPE
707 UMATILLA ST
DENVER CO 80204

PHONE: 3038921106

OWNER NAME:E N MURRAY
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:707 UMATILLA ST
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:11/09/2000

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 30 **DIST/DIR:** 0.16 NE **ELEVATION:** 5208 **MAP ID:** 43

NAME: E N MURRAY CO INC
ADDRESS: 707 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD983772815
ID2:
STATUS: VGN
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 96 **DIST/DIR:** 0.16 NE **ELEVATION:** 5208 **MAP ID:** 43

NAME: E N MURRAY CO INC
ADDRESS: 707 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002984138
ID2: COD983772815
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983772815
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 97 **DIST/DIR:** 0.16 NE **ELEVATION:** 5208 **MAP ID:** 43

NAME: EN MURRAY CO INC
ADDRESS: 707 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983772815
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 47 DIST/DIR: 0.16 NE ELEVATION: 5221 MAP ID: 44

NAME: DENVER & RIO GRANDE WESTERN RAILROAD
ADDRESS: 8TH & OSAGE
DENVER CO 80217
DENVER
CONTACT:
SOURCE: EPA
REV: 1/10/12
ID1: COD000706770
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

CONTACT INFORMATION: ADOLPH NANCE
PO BOX 5482
DENVER CO 80217

PHONE: 3036295533

OWNER NAME:RIO GRANDE INDUSTRIES
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: PO BOX 5482
DENVER, CO 80217

UNIVERSE INFORMATION:

RECEIVED DATE:08/13/1980

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 47 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: DENVER & RIO GRANDE WESTERN RAILROAD
ADDRESS: 8TH & OSAGE
DENVER CO 80217
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD000706770
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 123 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: UNION PACIFIC RAILROAD CO.
ADDRESS: 800 SEMINOLE RD
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110024260235
ID2: COR100747
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:PCSPROGRAM ID:COR100747
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:EISPROGRAM ID:1699911
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ICISPROGRAM ID:7731975
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 175 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: BURNHAM SHOPS **REV:** 04/24/12
ADDRESS: 800 SEMINOLE RD **ID1:** 974
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 5458
OWNER NAME:
OWNER ADDRESS: 280 SOUTH 400 WEST
SALT LAKE CITY UT 84101

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 20000
TANK ID: 2830
TANK TAG: 974-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 2831
TANK TAG: 974-2

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 1000
TANK ID: 2832
TANK TAG: 974-3

TANK TYPE: AST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 2833
TANK TAG: 974-4

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 5000
TANK ID: 2834
TANK TAG: 974-5

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 10000
TANK ID: 2835
TANK TAG: 974-6

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 10000

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 175 DIST/DIR: 0.16 NE ELEVATION: 5221 MAP ID: 44

NAME: BURNHAM SHOPS REV: 04/24/12
ADDRESS: 800 SEMINOLE RD ID1: 974
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

TANK ID: 2836
TANK TAG: 974-7

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2837
TANK TAG: 974-8

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2838
TANK TAG: 974-9

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2839
TANK TAG: 974-10

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2840
TANK TAG: 974-11

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2841
TANK TAG: 974-12

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2842
TANK TAG: 974-13

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 35000
TANK ID: 2843
TANK TAG: 974-14

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 16800

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 175 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: BURNHAM SHOPS
ADDRESS: 800 SEMINOLE RD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 974
ID2:
STATUS:
PHONE:

TANK ID: 35503
TANK TAG: 974-15

TANK TYPE: AST
TANK CONTENTS: Diesel #2
TANK CAPACITY: 20000
TANK ID: 41469
TANK TAG: 974-17

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 245 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: SOUTHERN PACIFIC RAILWAY - BURNHAM YARD
ADDRESS: 800 SEMINOLE RD
DENVER CO 80201
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 442
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/4/1995

LINK: http://costis.cdle.state.co.us/event.asp?h_id=442

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 246 **DIST/DIR:** 0.16 NE **ELEVATION:** 5221 **MAP ID:** 44

NAME: SOUTHERN PACIFIC RAILWAY BURNHAM YARD
ADDRESS: 800 SEMINOLE RD
DENVER CO 80201
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 447
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/9/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=447

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 71 **DIST/DIR:** 0.17 SW **ELEVATION:** 5260 **MAP ID:** 45

NAME: K O K AUTO REPAIR & BODY SHOP
ADDRESS: 450 FEDERAL
DENVER CO 00000
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0000714568
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 72 **DIST/DIR:** 0.17 SW **ELEVATION:** 5260 **MAP ID:** 45

NAME: K O K AUTO REPAIR & BODY SHOP
ADDRESS: 450 FEDERAL BLVD
DENVER CO 80204
DENVER

REV: 11/1/06
ID1: 110001428170
ID2: 0803100859
STATUS: FRS
PHONE:

CONTACT:
SOURCE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFS
PROGRAM ID:0803100859PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:AIRS/AFSLAST REPORTED:11/1/2001
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:AIR MINOR - A FACILITY IS CLASSIFIED AS A CLEAN AIR ACT STATIONARY SOURCE MINOR DISCHARGER OF AIR POLLUTANTS IF: (A) POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR; OR (B) MAJOR SOURCE THRESHOLDS ARE NOT DEFINED, OR CLASSIFICATION IS UNKNOWN.

PROGRAM:FRS
PROGRAM ID:110001428170PROVIDED BY:FEDERAL AGENCY
AGENCY INTERESTED:AGENCY INT QUAL:
INTEREST ENDED:INT END QUAL:
SOURCE OF DATA:FRSLAST REPORTED:
LAST EXTRACTED:ENFORCEMENT ACT:
REG PROGRAM:FACILITY -

SITE TYPE:STATIONARY
INTEREST STATUS:ACTIVE
DATA QUALITY:V
LOCATION DESC:
ADDRESS TYPE:REGULAR URBAN
LAST REPORTED:
POSTED TO DATABASE:3/1/2000
DATA UPDATED:2/4/2006 10:42:15 AM
ENTERED PERSON/METHOD:REFRESH
PARENT REG ID:
CONFIDENCE IN ADDR:
ENFORCEMENT SENSITIVE:
REQ MANUAL REVIEW:
REASON MAN REVIEW:
SMALL BUS POLICY:
ENFORCEMENT ACTION:
DATA PUB ACCESS:YES
INTERNAL SYS ID:

FEDERAL FACILITY:NO
FEDERAL AGENCY:
TRIBAL LAND:
TRIBAL LAND NAME:
CONGRESSIONAL DIST:01
LEGISLATIVE DIST:
HYDROLOGICAL UNTIS:10190002
EPA REGION:08
AIRSHED:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 150 **DIST/DIR:** 0.17 SW **ELEVATION:** 5260 **MAP ID:** 45

NAME:	CHARLES YAMAGUCHI	REV:	04/24/12
ADDRESS:	450 FEDERAL BLVD DENVER CO 80204 DENVER	ID1:	5393
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 5131
OWNER NAME: YAMAGUCHI; CHARLES
OWNER ADDRESS: 450 FEDERAL BLVD
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 14818
TANK TAG: 5393-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5393

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 166 **DIST/DIR:** 0.17 SW **ELEVATION:** 5260 **MAP ID:** 45

NAME: YAMAGUCHI PROPERTY
ADDRESS: 450 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 13124
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 16232
OWNER NAME: YAMAGUCHI, CHARLES
OWNER ADDRESS: 11530 W 39TH PL
WHEAT RIDGE CO 80033

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13124

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 234 **DIST/DIR:** 0.17 SW **ELEVATION:** 5260 **MAP ID:** 45

NAME: YAMAGUCHI PROPERTY
ADDRESS: 450 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 5269
ID2:
STATUS: OPEN
PHONE:

LUST INFORMATION
STATUS: Open
LOG DATE: 5/25/1994

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5269

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 167 **DIST/DIR:** 0.17 NE **ELEVATION:** 5207 **MAP ID:** 46

NAME:	740 INVESTORS	REV:	04/24/12
ADDRESS:	740 UMATILLA ST DENVER CO 80204 DENVER	ID1:	12272
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 16706
OWNER NAME: 740 INVESTORS WOLFE JOHNSON MC;
OWNER ADDRESS: 740 UMATILLA ST
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12272

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 172 **DIST/DIR:** 0.17 NE **ELEVATION:** 5207 **MAP ID:** 46

NAME: WOLF JOHNSON & MCCORMICK
ADDRESS: 740 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 6273
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 9999
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6273

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 190 **DIST/DIR:** 0.17 NE **ELEVATION:** 5207 **MAP ID:** 46

NAME:	740 INVESTORS	REV:	04/24/12
ADDRESS:	740 UMATILLA ST	ID1:	2871
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 3/16/1993

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2871

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

PRP

SEARCH ID: 266 **DIST/DIR:** 0.17 SE **ELEVATION:** 5208 **MAP ID:** 47

NAME: MAY D AND F
ADDRESS: 445 BRYANT ST
DENVER CO 80223

REV: 3/30/11
ID1: 8272200
ID2: COD980807374
STATUS: PRP
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

SITE EPA ID:COD980807374
SITE ID:0800265
SITE NAME:ROCKY FLATS INDUSTRIAL PARK (THORO - AERRCO - GWI)
NPL STATUS:NOT ON THE NPL
NON NPL STATUS:
ACTION DATE:
SETTLEMENT NAME:
COMPLETION DATE:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 24 **DIST/DIR:** 0.18 SW **ELEVATION:** 5319 **MAP ID:** 48

NAME: HEPPTING LEATHER CLEANERS
ADDRESS: 3469 W 4TH AVE
DENVER CO 80219
DENVER
CONTACT: JOHN HEPPTING
SOURCE: EPA

REV: 6/6/06
ID1: COD983793860
ID2:
STATUS: VGN
PHONE: 3037332831

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:N - NO
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoro

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 38 DIST/DIR: 0.18 SW ELEVATION: 5319 MAP ID: 48

NAME: HEPPTING LEATHER CLEANERS
ADDRESS: 3469 W 4TH AVE
DENVER CO 80219
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD983793860
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

CONTACT INFORMATION: JOHN HEPPTING
3469 W 4TH AVE
DENVER CO 80219

PHONE: 3037332831

OWNER NAME:JOHN HEPPTING
OWNER TYPE:P-PRIVATE
OPERATOR:JOHN HEPPTING
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:450 S HIGH ST
DENVER, CO 80209

UNIVERSE INFORMATION:

RECEIVED DATE:12/11/2006

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATESHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 38 **DIST/DIR:** 0.18 SW **ELEVATION:** 5319 **MAP ID:** 48

NAME: HEPPTING LEATHER CLEANERS
ADDRESS: 3469 W 4TH AVE
DENVER CO 80219
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD983793860
ID2:
STATUS: NLR
PHONE:

- DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 68 **DIST/DIR:** 0.18 SW **ELEVATION:** 5319 **MAP ID:** 48

NAME: HEPPTING LEATHER CLEANERS
ADDRESS: 3469 W 4TH AVE
DENVER CO 80219
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983793860
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 69 **DIST/DIR:** 0.18 SW **ELEVATION:** 5319 **MAP ID:** 48

NAME: HEPPTING LEATHER CLEANERS
ADDRESS: 3469 W 4TH AVE
DENVER CO 80219
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110002989678
ID2: COD983793860
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983793860
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 25 **DIST/DIR:** 0.18 SE **ELEVATION:** 5210 **MAP ID:** 49

NAME: MAY D&F DISTRIBUTION CENTER
ADDRESS: 445 BRYANT ST
DENVER CO 80204
DENVER

REV: 12/9/02
ID1: COD983799776
ID2:
STATUS: SGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE TYPE:

SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 41 DIST/DIR: 0.18 SE ELEVATION: 5210 MAP ID: 49

NAME: MAY D&F DISTRIBUTION CENTER
ADDRESS: 445 BRYANT ST
DENVER CO 80204
DENVER
CONTACT: REV: 1/10/12
SOURCE: EPA ID1: COD983799776
STATUS: NLR
PHONE:

SITE INFORMATION

CONTACT INFORMATION: BOB DICINO
445 BRYANT ST
DENVER CO 80204

PHONE: 3036207545

OWNER NAME:MAY D&F
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:445 BRYANT ST
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:05/01/2003

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 41 DIST/DIR: 0.18 SE ELEVATION: 5210 MAP ID: 49

NAME: MAY D&F DISTRIBUTION CENTER
ADDRESS: 445 BRYANT ST
DENVER CO 80204
DENVER

REV: 1/10/12
ID1: COD983799776
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

U155 - 1,2-Ethanediamine, N,N-dimethyl-N-(2-pyridinyl-N-(2-thienylmethyl))- (OR) Methapyrilene

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 76 **DIST/DIR:** 0.18 SE **ELEVATION:** 5210 **MAP ID:** 49

NAME: MAY D&F DIST CTR
ADDRESS: 445 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983799776
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 77 **DIST/DIR:** 0.18 SE **ELEVATION:** 5210 **MAP ID:** 49

NAME: MAY D&F DISTRIBUTION CENTER
ADDRESS: 445 BRYANT ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110002991415
ID2: COM000001166
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COD983799776
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ECOMAPPROGRAM ID:COM000001166
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 27 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

NAME:	PSCO - 7TH AVE SVR CTR	REV:	9/9/03
ADDRESS:	2701 W 7TH AVE	ID1:	COD133896134
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	SGN
CONTACT:	TERRY STALEY	PHONE:	7204972107
SOURCE:	EPA		

SITE INFORMATION

UNIVERSE TYPE:

SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 42 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

<p>NAME: PSCO - 7TH AVE SVC CTR ADDRESS: 2701 W 7TH AVE DENVER CO 80204 DENVER CONTACT: SOURCE: EPA</p>	<p>REV: 1/10/12 ID1: COD133896134 ID2: STATUS: NLR PHONE:</p>
---	--

SITE INFORMATION

CONTACT INFORMATION: TERRY STALEY
4653 TABLE MOUNTAIN DR
GOLDEN CO 80403

PHONE: 7204972107

OWNER NAME:PUBLIC SERVICE COMPANY OF COLORADO
OWNER TYPE:P-PRIVATE
OPERATOR:PSCO-7TH AVE SVC CTR
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:4653 TABLE MOUNTAIN DR
UNIVERSE INFORMATION:

RECEIVED DATE:09/30/2003

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATESHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

2212 - NATURAL GAS DISTRIBUTION
2211 - ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 42 DIST/DIR: 0.19 NW ELEVATION: 5209 MAP ID: 50

NAME:	PSCO - 7TH AVE SVC CTR	REV:	1/10/12
ADDRESS:	2701 W 7TH AVE	ID1:	COD133896134
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	NLR
CONTACT:		PHONE:	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste
F001 - The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 81 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

NAME:	PUBLIC SERVICE COMPANY 7TH AVENUE SERVICE CENTER	REV:	10/25/11
ADDRESS:	2701 W 7TH AVE	ID1:	110001393965
	DENVER CO 80204	ID2:	I08#19930331CO004 1
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NCDBPROGRAM ID:I08#19930331CO004 1
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:EISPROGRAM ID:4442611
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ECOMAPPROGRAM ID:COM000000581
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RCRAINFOPROGRAM ID:COD133896134
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:AIRS/AFSPROGRAM ID:0803101549
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEICO0311549
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 82 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

NAME: PUBLIC SVC CO
ADDRESS: 2701 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD133896134
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 191 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

NAME: 7TH AVENUE SERVICE CENTER
ADDRESS: 2701 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3684
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/6/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3684

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

PADS

SEARCH ID: 261 **DIST/DIR:** 0.19 NW **ELEVATION:** 5209 **MAP ID:** 50

NAME:	SEVENTH AVE SERVICE CTR	REV:	10/21/11
ADDRESS:	2701 W 7TH AVE	ID1:	COD133896134
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	PCB ACTIVITY
CONTACT:	BAAL A F	PHONE:	(303)571-3512
SOURCE:	EPA		

SITE INFORMATION

EPA ID:COD133896134
RECEIVE DATE:18-APR-90

TYPE OF PCB ACTIVITY:

GENERATOR:YSTORER:
TRANSPORTER:DISPOSER:
RESEARCH:SMELTER:

INSTALLATION CONTACT:BAAL A F
(303)571-3512

OWNER NAME:PUBLIC SERVICE CO OF COLORADO

MAILING ADDRESS:PO BOX 840
DEMVER CO 80201

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 70 **DIST/DIR:** 0.19 SW **ELEVATION:** **MAP ID:** 51

NAME: K O K AUTO REPAIR & BODY SHOP
ADDRESS: 450 FEDERAL BLVD
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110038609609
ID2: 0803100859
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803100859
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 151 **DIST/DIR:** 0.19 NE **ELEVATION:** 5203 **MAP ID:** 52

NAME:	DANA KEPNER CO	REV:	04/24/12
ADDRESS:	700 ALCOTT ST DENVER CO 80204 DENVER	ID1:	6038
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 1669
OWNER NAME: DANA KEPNER CO;
OWNER ADDRESS: 700 ALCOTT
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 16360
TANK TAG: 6038-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6038

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRATSD

SEARCH ID: 14 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME:	LINCOLN PLATING COMPANY	REV:	6/8/02
ADDRESS:	777 UMATILLA DENVER CO 80204 DENVER	ID1:	COD007073901
CONTACT:	DOUG BALL	ID2:	
SOURCE:	EPA	STATUS:	TSD
		PHONE:	4024753671

SITE INFORMATION

CONTACT INFORMATION: DOUG BALL
ENV COMPL MGR
777 UMATILLA
DENVER CO 80204

PHONE: 4024753671

UNIVERSE NAME:

DF: LAND DISPOSAL FACILITY
INCINERATOR
TSDS SUBJECT TO CORRECTIVE ACT
SUBJECT TO CEI
ST: STORAGE AND TREATMENT
SUBJECT TO CORRECTIVE ACTION

SIC INFORMATION:

ENFORCEMENT INFORMATION:

AGENCY: S - STATEDATE: 29-JUN-87
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001RESPONSIBLE: S - STATE
DETERMINED: 13-MAR-87DETERMINED BY: S - STATE
CITATION: RESOLVED: 06/29/1987
TYPE: GER - GENERATOR ALL REQUIREMENTS

VIOLATION NUMBER: 0002RESPONSIBLE: S - STATE
DETERMINED: 25-JUL-00DETERMINED BY: S - STATE
CITATION: 262.34,265.195,265.174RESOLVED: 10/02/2000
TYPE: GGR - GENERATOR GENERAL REQUIREMENTS

VIOLATION NUMBER: 0003RESPONSIBLE: S - STATE
DETERMINED: 25-JUL-00DETERMINED BY: S - STATE
CITATION: 262.20RESOLVED: 10/02/2000
TYPE: GMR - GENERATOR MANIFEST REQUIREMENTS

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 17 DIST/DIR: 0.20 NE ELEVATION: 5206 MAP ID: 53

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA
DENVER CO 80204
DENVER
CONTACT:
SOURCE: EPA
REV: 1/10/12
ID1: COD007073901
ID2:
STATUS: CA
PHONE:

SITE INFORMATION

CONTACT INFORMATION: RICK DICKEY
600 WEST E ST
LINCOLN NE 68522

PHONE: 4024753671

OWNER NAME:CAI TECHNOLOGIES
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:600 WEST E ST
LINCOLN, NE 68522

UNIVERSE INFORMATION:

RECEIVED DATE:08/30/2002

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:-GW CONTROLS:-
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 17 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

<p>NAME: LINCOLN PLATING COMPANY ADDRESS: 777 UMATILLA DENVER CO 80204 DENVER</p> <p>CONTACT: SOURCE: EPA</p>	<p>REV: 1/10/12 ID1: COD007073901 ID2: STATUS: CA PHONE:</p>
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- ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 00/25/2000
TYPE: V3 Conversion Compliance Advisory

VIOLATION INFORMATION:

VIOLATION NUMBER: 2RESPONSIBLE: S - STATE
DETERMINED: 00/25/2000DETERMINED BY: S - STATE
CITATION: RESOLVED: 00/02/2000
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 3RESPONSIBLE: S - STATE
DETERMINED: 00/25/2000DETERMINED BY: S - STATE
CITATION: RESOLVED: 00/02/2000
TYPE: GENERATORS - MANIFEST

CORRECTIVE ACTION INFORMATION

- CA EVENT:97/28/1997 CA225YE - STABILIZATION MEASURES EVALUATION - FACILITY IS AMENABLE TO STABILIZATION ACTIVITY
- CA EVENT:97/30/1997 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY
- CA EVENT:97/26/1997 CA814AS
- CA EVENT:97/28/1997 CA725NO - CURRENT HUMAN EXPOSURES UNDER CONTROL - NOT UNDER CONTROL
- CA EVENT:97/28/1997 CA110 - RFI WORKPLAN RECEIVED
- CA EVENT:97/28/1997 CA100 - RFI IMPOSITION
- CA EVENT:97/15/1997 CA070YE - DETERMINATION OF NEED FOR AN RFI - RFI IS NECESSARY
- CA EVENT:97/12/1997 CA811AS
- CA EVENT:97/15/1997 CA075ME - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A MEDIUM CORRECTIVE ACTION PRIORITY
- CA EVENT:97/15/1997 CA077M
- CA EVENT:97/28/1997 CA075LO - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A LOW CORRECTIVE ACTION PRIORITY
- CA EVENT:97/15/1997 CA060 - NOTICE OF CONTAMINATION
- CA EVENT:97/15/1997 CA006AC
- CA EVENT:97/28/1997 CA750NO - GROUNDWATER RELEASES CONTROLLED DETERMINATION - UNACCEPTABLE MIGRATION OF GW IS OBSERVED OR EXPECTED

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 17 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME:	LINCOLN PLATING COMPANY	REV:	1/10/12
ADDRESS:	777 UMATILLA DENVER CO 80204 DENVER	ID1:	COD007073901
CONTACT:		ID2:	
SOURCE:	EPA	STATUS:	CA
		PHONE:	

CA EVENT:98/01/1998 CA600 - STABILIZATION MEASURES IMPLEMENTED
CA EVENT:98/15/1998 CA650 - STABILIZATION CONSTRUCTION COMPLETED
CA EVENT:98/29/1998 CA150 - RFI WORKPLAN APPROVED
CA EVENT:98/08/1998 CA155 - RFI SUPPLEMENTAL INFORMATION REQUESTED BY AGENCY
CA EVENT:98/22/1998 CA190 - RFI REPORT RECEIVED
CA EVENT:98/20/1998 CA260 - CMS WORKPLAN RECEIVED
CA EVENT:98/31/1998 CA270 - CMS WORKPLAN MODIFICATION REQUESTED BY AGENCY
CA EVENT:98/04/1998 CA814AS
CA EVENT:99/26/1999 CA816
CA EVENT:00/29/2000 CA155 - RFI SUPPLEMENTAL INFORMATION REQUESTED BY AGENCY
CA EVENT:00/19/2000 CA160 - RFI SUPPLEMENTAL INFORMATION RECEIVED
CA EVENT:02/14/2002 CA100 - RFI IMPOSITION
CA EVENT:02/15/2002 CA450 - CORRECTIVE MEASURES DESIGN APPROVED
CA EVENT:02/15/2002 CA300 - CMS WORKPLAN APPROVED
CA EVENT:02/04/2002 CA260 - CMS WORKPLAN RECEIVED
CA EVENT:02/15/2002 CA400 - CA400-REMEDY DECISION
CA EVENT:06/26/2006 CA831OM
CA EVENT:06/12/2006 CA834OM
CA EVENT:07/15/2007 CA834OM
CA EVENT:07/09/2007 CA831OM
CA EVENT:07/15/2007 CA999RM - CORRECTIVE ACTION PROCESS TERMINATED - REMEDIAL ACTIVITIES COMPLETED

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D002 - Corrosive waste
D007 - Chromium

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 31 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA
DENVER CO 80204
DENVER
CONTACT: RICK DICKEY
SOURCE: EPA

REV: 10/8/02
ID1: COD007073901
ID2:
STATUS: LGN
PHONE: 4024753671

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 45 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER

REV: 12/11/09
ID1: COD007073901
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: RICK DICKEY
600 WEST E ST
LINCOLN NE 68522

PHONE: 4024753671

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N
HUMAN EXPOSURE:
GW CONTROLS:
LAND TYPE:P

NAIC INFORMATION

332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 00/25/2000
TYPE: V3 Conversion Compliance Advisory

VIOLATION INFORMATION:

VIOLATION NUMBER: 2RESPONSIBLE: S - STATE
DETERMINED: 00/25/2000DETERMINED BY: S - STATE
CITATION: RESOLVED: 00/02/2000
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 3RESPONSIBLE: S - STATE
DETERMINED: 00/25/2000DETERMINED BY: S - STATE
CITATION: RESOLVED: 00/02/2000

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 45 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER

REV: 12/11/09
ID1: COD007073901
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

TYPE: GENERATORS - MANIFEST

CORRECTIVE ACTION INFORMATION

CA EVENT:97/15/1997 CA006AC

CA EVENT:97/30/1997 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY

CA EVENT:97/28/1997 CA750NO - GROUNDWATER RELEASES CONTROLLED DETERMINATION - UNACCEPTABLE MIGRATION OF GW IS OBSERVED OR EXPECTED

CA EVENT:97/28/1997 CA725NO - CURRENT HUMAN EXPOSURES UNDER CONTROL - NOT UNDER CONTROL

CA EVENT:97/28/1997 CA225YE - STABILIZATION MEASURES EVALUATION - FACILITY IS AMENABLE TO STABILIZATION ACTIVITY

CA EVENT:97/28/1997 CA110 - RFI WORKPLAN RECEIVED

CA EVENT:97/28/1997 CA100 - RFI IMPOSITION

CA EVENT:97/28/1997 CA075LO - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A LOW CORRECTIVE ACTION PRIORITY

CA EVENT:97/26/1997 CA814AS

CA EVENT:97/15/1997 CA077M

CA EVENT:97/15/1997 CA075ME - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A MEDIUM CORRECTIVE ACTION PRIORITY

CA EVENT:97/15/1997 CA060 - NOTICE OF CONTAMINATION

CA EVENT:97/12/1997 CA811AS

CA EVENT:97/15/1997 CA070YE - DETERMINATION OF NEED FOR AN RFI - RFI IS NECESSARY

CA EVENT:98/31/1998 CA270 - CMS WORKPLAN MODIFICATION REQUESTED BY AGENCY

CA EVENT:98/29/1998 CA150 - RFI WORKPLAN APPROVED

CA EVENT:98/22/1998 CA190 - RFI REPORT RECEIVED

CA EVENT:98/20/1998 CA260 - CMS WORKPLAN RECEIVED

CA EVENT:98/01/1998 CA600 - STABILIZATION MEASURES IMPLEMENTED

CA EVENT:98/15/1998 CA650 - STABILIZATION CONSTRUCTION COMPLETED

CA EVENT:98/08/1998 CA155 - RFI SUPPLEMENTAL INFORMATION REQUESTED BY AGENCY

CA EVENT:98/04/1998 CA814AS

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 45 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME:	LINCOLN PLATING COMPANY	REV:	12/11/09
ADDRESS:	777 UMATILLA ST	ID1:	COD007073901
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	NLR
CONTACT:		PHONE:	
SOURCE:	EPA		

- CA EVENT:99/26/1999 CA816
- CA EVENT:00/19/2000 CA160 - RFI SUPPLEMENTAL INFORMATION RECEIVED
- CA EVENT:00/29/2000 CA155 - RFI SUPPLEMENTAL INFORMATION REQUESTED BY AGENCY
- CA EVENT:02/04/2002 CA260 - CMS WORKPLAN RECEIVED
- CA EVENT:02/14/2002 CA100 - RFI IMPOSITION
- CA EVENT:02/15/2002 CA300 - CMS WORKPLAN APPROVED
- CA EVENT:02/15/2002 CA400 - CA400-REMEDY DECISION
- CA EVENT:02/15/2002 CA450 - CORRECTIVE MEASURES DESIGN APPROVED
- CA EVENT:06/26/2006 CA831OM
- CA EVENT:06/12/2006 CA834OM
- CA EVENT:07/15/2007 CA999RM - CORRECTIVE ACTION PROCESS TERMINATED - REMEDIAL ACTIVITIES COMPLETED
- CA EVENT:07/09/2007 CA831OM
- CA EVENT:07/15/2007 CA834OM

HAZARDOUS WASTE INFORMATION:

- D001 - Ignitable waste
- D002 - Corrosive waste
- D007 - Chromium
- D008 - Lead
- F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F006 - Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 95 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: CAI TECHNOLOGIES
ADDRESS: 777 UMATILLA
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD007073901
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 101 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING COMPANY DENVER CENTRAL
ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110000466790
ID2: NEI2863
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803100096
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ICISPROGRAM ID:50971
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEI2863
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NCDBPROGRAM ID:I08#19950322N8006 1
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RCRAINFOPROGRAM ID:COD007073901
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:TRISPROGRAM ID:80204CTCHN777UM
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ECOMAPPROGRAM ID:COM000000223
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:BRPROGRAM ID:COD007073901
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 128 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING CO.

ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER

CONTACT: BRAD DAVID

SOURCE:

REV:

ID1: COD007073901
ID2: 80204CTCHN777UM

STATUS: OPEN

PHONE: 3035348161

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 129 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING CO. - DENVER CENTRAL
ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER
CONTACT: ROB JOHNSTON
SOURCE: EPA

REV: 2/25/10
ID1: 80204CTCHN777UM
ID2:
STATUS: OPEN
PHONE: 3035348161

SITE_INFORMATION

SIC INFORMATION

3462
NA -
3479
3441
3471

REPORTED INFORMATION

REPORTING YEAR:CONTACT PERSON:CONTACT PHONE:

1987BRAD DAVID3035348161
1989BRAD DAVID3035348161
1990BRAD DAVID3035348161
1991BRAD DAVID3035348161
1992BRAD DAVID3035348161
1993BRAD DAVID3035348161
1994BRAD DAVID3035348161
1995BRAD DAVID3035348161
1996RUSSEL ROHL3035348161
1997JOE TYNAN4024723671
1997JOE TYNAN4024753671
1998RON BIRELY4025348161
1998RON BIRELY3035348161
1999RON BIRELY3035348161
1999RON BIRELY4025348161
2000ROB JOHNSTON3035348161
2001ROB JOHNSTON3035348161

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 129 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING CO. - DENVER CENTRAL
ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER
CONTACT: ROB JOHNSTON
SOURCE: EPA

REV: 2/25/10
ID1: 80204CTCHN777UM
ID2:
STATUS: OPEN
PHONE: 3035348161

YEARCHEMICALONE TIME RELEASE QTY(LBS)

1987METHYL ETHYL KETONE

1987SODIUM HYDROXIDE (SOLUTION)

1989NITRIC ACID

1990NITRIC ACID

1991NITRIC ACID0

1992NITRIC ACID0

1993NITRIC ACID0

1994NITRIC ACID0

1994SULFURIC ACID (1994 AND AFTER ACID AEROSOLS ONLY)0

1995NITRATE COMPOUNDS0

1995NITRIC ACID0

1996NITRIC ACID0

1996NITRATE COMPOUNDS0

1996CHROMIUM0

1996PHOSPHORIC ACID0

1997CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)1

1997NITRATE COMPOUNDS0

1997NITRIC ACID0

1997PHOSPHORIC ACID0

1998NITRATE COMPOUNDS0

1998NITRIC ACID0

1998CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)60

1999NITRATE COMPOUNDS0

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 129 **DIST/DIR:** 0.20 NE **ELEVATION:** 5206 **MAP ID:** 53

NAME: LINCOLN PLATING CO. - DENVER CENTRAL

REV: 2/25/10

ADDRESS: 777 UMATILLA ST
DENVER CO 80204
DENVER

ID1: 80204CTCHN777UM

ID2:

CONTACT: ROB JOHNSTON

STATUS: OPEN

SOURCE: EPA

PHONE: 3035348161

NITRIC ACID0

1999CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)0

2000CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)0

2000NITRATE COMPOUNDS0

2000NITRIC ACID0

2001NITRATE COMPOUNDS0

2001NITRIC ACID0

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 60 **DIST/DIR:** 0.20 SW **ELEVATION:** 5261 **MAP ID:** 54

NAME: COASTAL MART INC 1207
ADDRESS: 438 FEDERAL ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0000714873
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 80 **DIST/DIR:** 0.20 SW **ELEVATION:** 5261 **MAP ID:** 54

NAME:	PESTER MARKETING CO	REV:	10/25/11
ADDRESS:	438 FEDERAL BLVD	ID1:	110001437053
	DENVER CO 80204	ID2:	2182111
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:EISPROGRAM ID:2182111
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:AIRS/AFSPROGRAM ID:0803101228
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEI1419
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 165 **DIST/DIR:** 0.20 SW **ELEVATION:** 5261 **MAP ID:** 54

NAME:	TRIMER ENTERPRISES LLC	REV:	04/24/12
ADDRESS:	438 FEDERAL BLVD DENVER CO 80204 DENVER	ID1:	9517
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	
		PHONE:	

OWNER INFORMATION
OWNER ID NUMBER: 20423
OWNER NAME:
OWNER ADDRESS: 412 FEDERAL BLVD
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 25303
TANK TAG: 9517-1

TANK TYPE: UST
TANK CONTENTS: 3 - Unleaded Premium (PUL)
TANK CAPACITY: 8000
TANK ID: 25304
TANK TAG: 9517-2

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 6000
TANK ID: 25305
TANK TAG: 9517-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=9517

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 232 **DIST/DIR:** 0.20 SW **ELEVATION:** 5261 **MAP ID:** 54

NAME: TRIMER ENTERPRISES LLC
ADDRESS: 438 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 11458
ID2:
STATUS: OPEN
PHONE:

LUST INFORMATION
STATUS: Open
LOG DATE: 7/8/2011 7:41:41 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=11458

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 99 **DIST/DIR:** 0.20 SE **ELEVATION:** 5203 **MAP ID:** 55

NAME: JACKSON ICE CREAM COMPANY
ADDRESS: 400 YUMA ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD983769274
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 100 **DIST/DIR:** 0.20 SE **ELEVATION:** 5203 **MAP ID:** 55

NAME: JACKSON ICE CREAM COMPANY (KROGER)
ADDRESS: 400 YUMA ST
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110000466807
ID2: 80204JCKSN400YU
STATUS: FRS
PHONE:

CONTACT:

SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101690
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:TRISPROGRAM ID:80204JCKSN400YU
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ICISPROGRAM ID:600022010
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RMPPPROGRAM ID:100000131911
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 126 **DIST/DIR:** 0.20 SE **ELEVATION:** 5203 **MAP ID:** 55

NAME: JACKSON & CO. INC.
ADDRESS: 400 YUMA ST
DENVER CO 80204
DENVER
CONTACT: GARY R. GREAVES
SOURCE:

REV:
ID1: COD983769274
ID2: 80204JCKSN400YU
STATUS: OPEN
PHONE: 3035341922

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 127 **DIST/DIR:** 0.20 SE **ELEVATION:** 5203 **MAP ID:** 55

NAME: JACKSON ICE CREAM
ADDRESS: 400 YUMA ST
DENVER CO 80204
DENVER
CONTACT: MARK DAY
SOURCE: EPA

REV: 2/25/10
ID1: 80204JCKSN400YU
ID2:
STATUS: OPEN
PHONE: 3035341922

SITE_INFORMATION

SIC INFORMATION

2024

REPORTED INFORMATION

REPORTING YEAR:CONTACT PERSON:CONTACT PHONE:

1988PAUL BROADHEAD3035341922

1989HEIDI STEGEMAN3035341922

1990GARY R. GREAVES3035341922

1991GARY R. GREAVES3035341922

1992GARY R. GREAVES3035341922

1993GARY R. GREAVES3035341922

1994MARK DAY3035341922

1995MARK DAY3035341922

1996MARK DAY3035341922

1997MARK DAY3035341922

1998MARK DAY3035341922

1999MARK DAY3035341922

2003MARK DAY3035341922

YEARCHEMICALONE TIME RELEASE QTY(LBS)

1988AMMONIA

1989AMMONIA

1990AMMONIA

1991AMMONIA0

1992AMMONIA0

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 127 **DIST/DIR:** 0.20 SE **ELEVATION:** 5203 **MAP ID:** 55

NAME: JACKSON ICE CREAM
ADDRESS: 400 YUMA ST
DENVER CO 80204
DENVER
CONTACT: MARK DAY
SOURCE: EPA

REV: 2/25/10
ID1: 80204JCKSN400YU
ID2:
STATUS: OPEN
PHONE: 3035341922

AMMONIA0
1994AMMONIA0
1995AMMONIA0
1996AMMONIA0
1997AMMONIA0
1998AMMONIA0
1999AMMONIA0
2003AMMONIA8700

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 171 **DIST/DIR:** 0.20 SE **ELEVATION:** 5204 **MAP ID:** 56

NAME: MONFORT FOOD DISTRIBUTING CO
ADDRESS: 415 YUMA ST
DENVER CO 80204
DENVER

REV: 04/24/12
ID1: 832
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 3744
OWNER NAME: MONFORT FOOD DIST;
OWNER ADDRESS: 415 YUMA
DENVER CO 80205

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 2475
TANK TAG: 832-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 2476
TANK TAG: 832-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=832

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 240 **DIST/DIR:** 0.20 SE **ELEVATION:** 5221 **MAP ID:** 57

NAME: 5TH & OSAGE
ADDRESS: 5TH & OSAGE
DENVER CO
DENVER

CONTACT:
SOURCE: CDPHE

REV: 12/01/08
ID1: LTT-86
ID2:
STATUS: UNKNOWN
PHONE:

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS).

This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 29 DIST/DIR: 0.21 NE ELEVATION: 5206 MAP ID: 58

NAME: VISION GRAPHICS INC
ADDRESS: 750 CANOSA CT
DENVER CO 80204
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COR000207530
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: PETER CARRANZA
BOEING DR
LOVELAND CO 80538

PHONE: 9706799118

OWNER NAME:KEYLINE INVESTMENT CO
OWNER TYPE:P-PRIVATE
OPERATOR:KEYLINE GRAPHICS INC
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:5610 BOEING DR
LOVELAND, CO
UNIVERSE INFORMATION:

RECEIVED DATE:09/29/2009

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

32311 - PRINTING

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 29 **DIST/DIR:** 0.21 NE **ELEVATION:** 5206 **MAP ID:** 58

NAME:	VISION GRAPHICS INC	REV:	1/10/12
ADDRESS:	750 CANOSA CT	ID1:	COR000207530
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	VGN
CONTACT:		PHONE:	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 03/18/2003
TYPE: V3 Conversion Compliance Advisory

AGENCY: STATEDATE: 07/01/2007
TYPE: COMPLIANCE ADVISORY

VIOLATION INFORMATION:

VIOLATION NUMBER: 1RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 2RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 3RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - MANIFEST

VIOLATION NUMBER: 4RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 5RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 6RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 7RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE
CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 8RESPONSIBLE: S - STATE
DETERMINED: 03/18/2003DETERMINED BY: S - STATE

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 29 **DIST/DIR:** 0.21 NE **ELEVATION:** 5206 **MAP ID:** 58

NAME: VISION GRAPHICS INC
ADDRESS: 750 CANOSA CT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000207530
ID2:
STATUS: VGN
PHONE:

CITATION: RESOLVED: 04/02/2004
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 9RESPONSIBLE: S - STATE
DETERMINED: 07/01/2007DETERMINED BY: S - STATE
CITATION: RESOLVED: 07/01/2007
TYPE: GENERATORS - PRE-TRANSPORT

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 39 **DIST/DIR:** 0.21 NE **ELEVATION:** 5206 **MAP ID:** 58

NAME: KEYLINE GRAPHICS
ADDRESS: 750 CANOSA CT
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 2/9/04
ID1: COR000207530
ID2:
STATUS: NLR
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 73 **DIST/DIR:** 0.21 NE **ELEVATION:** 5206 **MAP ID:** 58

NAME: KEYLINE GRAPHICS INCORPORATED
ADDRESS: 750 CANOSA CT
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110001397532
ID2: 0803101537
STATUS: FRS
PHONE:

CONTACT:
SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101537
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:EISPROGRAM ID:4442011
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ICISPROGRAM ID:50648
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEI4469
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RCRAINFOPROGRAM ID:COR000207530
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

811490
336612 - BOAT BUILDING
812320
3732 - BOAT BUILDING AND REPAIRING
2752 - COMMERCIAL PRINTING, LITHOGRAPHIC
5541 - GASOLINE SERVICE STATIONS
7212 - GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 74 **DIST/DIR:** 0.21 NE **ELEVATION:** 5206 **MAP ID:** 58

NAME: KEYLINE GRAPHICS, INC
ADDRESS: 750 CANOSA CT
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0001240597
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 104 **DIST/DIR:** 0.21 NE **ELEVATION:** 5222 **MAP ID:** 59

NAME: DENVER & RIO GRANDE WESTERN RAILROAD
ADDRESS: 8TH & OSAGE
DENVER CO 80217
DENVER

REV:
ID1: COD000706770
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 115 **DIST/DIR:** 0.21 SE **ELEVATION:** 5223 **MAP ID:** 60

NAME: RIO GRANDE CO RESIDENTIAL PRODUCTS DIV
ADDRESS: 500 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0000756841
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 116 **DIST/DIR:** 0.21 SE **ELEVATION:** 5223 **MAP ID:** 60

NAME:	RIO GRANDE CO RESIDENTIAL PRODCTS DIV	REV:	10/25/11
ADDRESS:	500 OSAGE ST	ID1:	110001397104
	DENVER CO 80204	ID2:	4442311
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101540
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:EISPROGRAM ID:4442311
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:NEIPROGRAM ID:NEI3714
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 182 **DIST/DIR:** 0.21 SE **ELEVATION:** 5223 **MAP ID:** 60

NAME: RIO GRANDE CO RESIDENTIAL PRODUCTS DIV **REV:** 04/24/12
ADDRESS: 500 OSAGE ST **ID1:** 7940
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 4492
OWNER NAME:
OWNER ADDRESS: 201 SANTA FE DR
DENVER CO 80223

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 20790
TANK TAG: 7940-1

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 20791
TANK TAG: 7940-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7940

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 244 **DIST/DIR:** 0.21 SE **ELEVATION:** 5223 **MAP ID:** 60

NAME: RIO GRANDE CO RESIDENTIAL PRODUCTS DIV
ADDRESS: 500 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 9337
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/15/2003 9:17:25 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=9337

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 152 **DIST/DIR:** 0.21 NE **ELEVATION:** 5205 **MAP ID:** 61

NAME:	DELTA DRY WALL INC	REV:	04/24/12
ADDRESS:	2605 W 7TH AVE	ID1:	5251
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	
CONTACT:		PHONE:	
SOURCE:	COSTIS		

OWNER INFORMATION
OWNER ID NUMBER: 1737
OWNER NAME: DELTA DRY WALL INC;
OWNER ADDRESS: 2605 W 7TH AVE
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 14472
TANK TAG: 5251-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5251

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 202 **DIST/DIR:** 0.21 NE **ELEVATION:** 5205 **MAP ID:** 61

NAME: DELTA DRY WALL INC
ADDRESS: 2605 W 7TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3722
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 3/13/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3722

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 142 **DIST/DIR:** 0.22 SE **ELEVATION:** **MAP ID:** 62

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	AT 4TH & VALLEJO ST DENVER CO DENVER	ID1:	131
CONTACT:		ID2:	00070-0000675
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

TEMPORARILY CLOSED IN 1960
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: YES
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: NO
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 155 **DIST/DIR:** 0.22 NW **ELEVATION:** 5237 **MAP ID:** 63

NAME: FEDERAL AUTO & WRECKING CO
ADDRESS: 750 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 12382
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 16527
OWNER NAME: GREENSPOON; MERLE
OWNER ADDRESS: 750 FEDERAL BLVD
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12382

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 210 **DIST/DIR:** 0.22 NW **ELEVATION:** 5237 **MAP ID:** 63

NAME: FEDERAL AUTO & WRECKING CO
ADDRESS: 750 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 2446
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 7/15/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2446

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 211 **DIST/DIR:** 0.22 NW **ELEVATION:** 5237 **MAP ID:** 63

NAME: FEDERAL AUTO & WRECKING CO
ADDRESS: 750 FEDERAL BLVD
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 2450
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 11/24/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2450

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 61 **DIST/DIR:** 0.23 SW **ELEVATION:** 5253 **MAP ID:** 64

NAME: DECATUR
ADDRESS: 400 DECATUR ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: CO0000310185
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 62 **DIST/DIR:** 0.23 SW **ELEVATION:** 5253 **MAP ID:** 64

NAME:	DECATUR	REV:	10/25/11
ADDRESS:	400 DECATUR ST	ID1:	110011677293
	DENVER CO 80204	ID2:	I08#19920803CO004 1
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:NCDBPROGRAM ID:I08#19920803CO004 1
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 79 **DIST/DIR:** 0.23 SE **ELEVATION:** **MAP ID:** 65

NAME: PARAGON REPRODUCTIONS INC
ADDRESS: 2500 WEST 4TH AVE
DENVER CO 80219
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110038622005
ID2: 0803100406
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803100406
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 174 DIST/DIR: 0.23 NE ELEVATION: 5205 MAP ID: 66

NAME: NEWSTROM-DAVIS CONSTRUCTION CO REV: 04/24/12
ADDRESS: 2000 W 8TH AVE ID1: 10840
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 3911
OWNER NAME: NEWSTROM DAVIS CONSTRUCTION;
OWNER ADDRESS: 2000 W 8TH AVE
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 500
TANK ID: 29562
TANK TAG: 10840-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10840

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 224 **DIST/DIR:** 0.23 NE **ELEVATION:** 5205 **MAP ID:** 66

NAME: NEWSTROM-DAVIS CONSTRUCTION CO
ADDRESS: 2000 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 5137
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/8/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5137

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 153 **DIST/DIR:** 0.24 NW **ELEVATION:** 5236 **MAP ID:** 67

NAME: DENVER PUBLIC SCHOOL
ADDRESS: 2880 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV:
ID1: 14101
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 16913
OWNER NAME: DENVER PUBLIC SCHOOL
OWNER ADDRESS: 2880 W 8TH AVE TRANSPORTATION YARD
DENVER CO 80204

TANK INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 204 **DIST/DIR:** 0.24 NW **ELEVATION:** 5236 **MAP ID:** 67

NAME:	DENVER PUBLIC SCHOOL	REV:	04/24/12
ADDRESS:	2880 W 8TH AVE	ID1:	8548
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/25/2001

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8548

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 205 **DIST/DIR:** 0.24 NW **ELEVATION:** 5236 **MAP ID:** 67

NAME: DENVER PUBLIC SCHOOL / TRANSPORTATION YARD
ADDRESS: 2880 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 4422
ID2:
STATUS: OPEN
PHONE:

LUST INFORMATION
STATUS: Open
LOG DATE: 8/31/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4422

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 22 DIST/DIR: 0.25 NE ELEVATION: 5204 MAP ID: 68

NAME: AB DICK COMPANY REV: 1/10/12
ADDRESS: 2500 W 8TH AVE ID1: COR000204313
DENVER CO 80204 ID2:
DENVER STATUS: VGN
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: CARLA GORMAN
W 8TH AVE STE B
DENVER CO 80204

PHONE: 3035344848

OWNER NAME: AB DICK COMPANY
OWNER TYPE: P-PRIVATE
OPERATOR: AB DICK COMPANY
OPERATOR_TYPE: P-PRIVATE
MAILING ADDRESS: 2500 W 8TH AVE STE B
DENVER, CO 80204
UNIVERSE INFORMATION:

RECEIVED DATE: 09/03/2004

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NOENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NOGW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: NREC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NOMIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NOTSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NOONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NOUNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NOUNIV WASTE DEST FAC: N
USED OIL TRANS: N - NOUSED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NOUSED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: NUSED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

42384 - INDUSTRIAL SUPPLIES MERCHANT WHOLESALERS

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 22 **DIST/DIR:** 0.25 NE **ELEVATION:** 5204 **MAP ID:** 68

NAME: AB DICK COMPANY
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000204313
ID2:
STATUS: VGN
PHONE:

- GENERAL WAREHOUSING AND STORAGE

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 26 DIST/DIR: 0.25 NE ELEVATION: 5204 MAP ID: 68

NAME: MILWAUKEE ELECTRIC TOOL CORP
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COR000210161
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: JERRY JORDAN
W 8TH AVE UNIT E
DENVER CO 80204

PHONE: 3039221165

OWNER NAME:CHASE GROUP
OWNER TYPE:P-PRIVATE
OPERATOR:MILWAUKEE ELECTRIC TOOL CORP
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:2500 W 8TH AVE UNIT E
DENVER, C
UNIVERSE INFORMATION:

RECEIVED DATE:09/29/2008

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

333991 - POWER-DRIVEN HANDTOOL MANUFACTURING

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRAGN

SEARCH ID: 26 **DIST/DIR:** 0.25 NE **ELEVATION:** 5204 **MAP ID:** 68

NAME: MILWAUKEE ELECTRIC TOOL CORP
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COR000210161
ID2:
STATUS: VGN
PHONE:

- GENERAL AUTOMOTIVE REPAIR

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 35 **DIST/DIR:** 0.25 NE **ELEVATION:** 5204 **MAP ID:** 68

NAME: AB DICK COMPANY
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER
CONTACT: CARLA GORMAN
SOURCE: EPA

REV: 10/8/02
ID1: COR000204313
ID2:
STATUS: NLR
PHONE: 3035344848

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 56 **DIST/DIR:** 0.25 NE **ELEVATION:** 5204 **MAP ID:** 68

NAME: AB DICK COMPANY
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 10/25/11
ID1: 110022513537
ID2: COM000001554
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COR000204313
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:ECOMAPPROGRAM ID:COM000001554
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 78 **DIST/DIR:** 0.25 NE **ELEVATION:** 5204 **MAP ID:** 68

NAME: MILWAUKEE ELECTRIC TOOL CORP
ADDRESS: 2500 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: EPA

REV: 10/25/11
ID1: 110020745096
ID2: COR000210161
STATUS: FRS
PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM:RCRAINFOPROGRAM ID:COR000210161
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 37 DIST/DIR: 0.25 NE ELEVATION: 5207 MAP ID: 69

NAME: FLINT INK CORP REV: 1/10/12
ADDRESS: 2600 W 8TH AVE ID1: COD007068430
DENVER CO 80204 ID2:
DENVER STATUS: NLR
CONTACT: PHONE:
SOURCE: EPA

SITE INFORMATION

CONTACT INFORMATION: STEVE BARKER
2600 W 8TH AVE
DENVER CO 80204

PHONE: 3134587500

OWNER NAME: EDGAR B FLINT PRESIDENT
OWNER TYPE: P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: 2600 W 8TH AVE
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE: 04/13/2005

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: N

INSTITUTIONAL CONTROL: N-NOENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NOGW CONTROLS: N- NO
LAND TYPE: O-OTHERSHORT TERM GEN: N
TRANS FACILITY: NREC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NOMIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NOTSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NOONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NOUNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NOUNIV WASTE DEST FAC: N
USED OIL TRANS: N - NOUSED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NOUSED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: NUSED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRANLR

SEARCH ID: 37 **DIST/DIR:** 0.25 NE **ELEVATION:** 5207 **MAP ID:** 69

NAME: FLINT INK CORP
ADDRESS: 2600 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: COD007068430
ID2:
STATUS: NLR
PHONE:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 66 **DIST/DIR:** 0.25 NE **ELEVATION:** 5207 **MAP ID:** 69

NAME: FLINT INK CORP
ADDRESS: 2600 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE:

REV:
ID1: COD007068430
ID2:
STATUS:
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 67 **DIST/DIR:** 0.25 NE **ELEVATION:** 5207 **MAP ID:** 69

NAME:	FLINT INK CORP	REV:	10/25/11
ADDRESS:	2600 W 8TH AVE	ID1:	110001435448
	DENVER CO 80204	ID2:	0803100505
	DENVER	STATUS:	FRS
CONTACT:		PHONE:	
SOURCE:	EPA		

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803100505
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:RCRAINFOPROGRAM ID:COD007068430
FEDERAL FACILITY:
TRIBAL LAND:

SIC INFORMATION

NIAC INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 156 DIST/DIR: 0.25 NE ELEVATION: 5207 MAP ID: 69

NAME: FLINT INK CORP REV: 04/24/12
ADDRESS: 2600 W 8TH AVE ID1: 10316
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 2305
OWNER NAME: FLINT INK CORP;
OWNER ADDRESS: 25111 GLENDALE AVE
REDFORD MI 48239

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 10000
TANK ID: 27932
TANK TAG: 10316-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 10000
TANK ID: 27933
TANK TAG: 10316-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10316

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

FINDS

SEARCH ID: 103 **DIST/DIR:** 0.25 SE **ELEVATION:** 5223 **MAP ID:** 70

NAME: CALIFORNIA EXPANDED METALS CO
ADDRESS: 490 OSAGE ST
DENVER CO 80204
DENVER

REV: 10/25/11
ID1: 110022448270
ID2: 80204CLFRN49SAG
STATUS: FRS
PHONE:

CONTACT:

SOURCE: EPA

FACILITY REGISTRATION INFORMATION:

PROGRAM:AIRS/AFSPROGRAM ID:0803101941
FEDERAL FACILITY:
TRIBAL LAND:

PROGRAM:TRISPROGRAM ID:80204CLFRN49SAG
FEDERAL FACILITY:
TRIBAL LAND:

NIAC INFORMATION

SIC INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

TRIS

SEARCH ID: 130 **DIST/DIR:** 0.25 SE **ELEVATION:** 5223 **MAP ID:** 70

NAME: CALIFORNIA EXPANDED METALS CO
ADDRESS: 490 OSAGE ST
DENVER CO 80204
DENVER

REV: 1/4/12
ID1: 80204CLFRN49SAG
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: EPA

SITE_INFORMATION

SIC INFORMATION

NA -
3499

REPORTED INFORMATION

REPORTING YEAR:CONTACT PERSON:CONTACT PHONE:

2004TIM DEVOS8007752362

2005TIM DEVOS8007752362

YEARCHEMICALONE TIME RELEASE QTY(LBS)

2004LEAD

2005LEAD

OFF SITE TREATMENT LOCATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 176 **DIST/DIR:** 0.25 SE **ELEVATION:** 5223 **MAP ID:** 70

NAME:	CHAMPION FENCE CO	REV:	04/24/12
ADDRESS:	490 OSAGE ST	ID1:	12817
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	
CONTACT:		PHONE:	
SOURCE:	COSTIS		

OWNER INFORMATION
OWNER ID NUMBER: 17701
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12817

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 185 **DIST/DIR:** 0.25 SE **ELEVATION:** 5223 **MAP ID:** 70

NAME: SOUTHWEST PROPERTIES
ADDRESS: 490 OSAGE ST
DENVER CO 80216
DENVER

CONTACT:

SOURCE: COSTIS

REV:
ID1: 6064
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 9999
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 242 **DIST/DIR:** 0.25 SE **ELEVATION:** 5223 **MAP ID:** 70

NAME: CHAMPION FENCE CO
ADDRESS: 490 OSAGE ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 1739
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 10/25/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1739

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 160 DIST/DIR: 0.25 NW ELEVATION: 5210 MAP ID: 71

NAME: L E RENNER SPORTS SURFACES REV: 04/24/12
ADDRESS: 775 CANOSA CT ID1: 1553
DENVER CO 80204 ID2:
DENVER STATUS:
CONTACT: PHONE:
SOURCE: COSTIS

OWNER INFORMATION
OWNER ID NUMBER: 19070
OWNER NAME:
OWNER ADDRESS: 775 CANOSA CT
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 10000
TANK ID: 4304
TANK TAG: 1553-1

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 4305
TANK TAG: 1553-2

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 12000
TANK ID: 4306
TANK TAG: 1553-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=1553

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 218 **DIST/DIR:** 0.25 NW **ELEVATION:** 5210 **MAP ID:** 71

NAME: L E RENNER SPORTS SURFACES
ADDRESS: 775 CANOSA CT
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 10965
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 10/7/2009 1:10:42 PM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10965

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

UST

SEARCH ID: 170 DIST/DIR: 0.25 NE ELEVATION: 5207 MAP ID: 72

NAME: HEB S SERVICE
ADDRESS: 2214 W 8TH AVE
DENVER CO 80204
DENVER
CONTACT:
SOURCE: COSTIS
REV: 04/24/12
ID1: 8102
ID2:
STATUS:
PHONE:

OWNER INFORMATION
OWNER ID NUMBER: 1941
OWNER NAME: PASTOR; DUANE
OWNER ADDRESS: 2943 S VRAIN ST
DENVER CO 80236

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 550
TANK ID: 21159
TANK TAG: 8102-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 550
TANK ID: 21160
TANK TAG: 8102-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 21161
TANK TAG: 8102-3

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 21162
TANK TAG: 8102-4

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8102

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 213 **DIST/DIR:** 0.25 NE **ELEVATION:** 5207 **MAP ID:** 72

NAME: HEB S SERVICE
ADDRESS: 2214 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 2403
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/2/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2403

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 192 **DIST/DIR:** 0.26 NW **ELEVATION:** 5239 **MAP ID:** 73

NAME: 8TH & FEDERAL
ADDRESS: 8TH & FEDERAL
DENVER CO
DENVER

CONTACT:

SOURCE: CDPHE

REV: 12/01/08
ID1: LTT-90
ID2:
STATUS: UNKNOWN
PHONE:

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS).

This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 255 **DIST/DIR:** 0.27 NE **ELEVATION:** 5226 **MAP ID:** 74

NAME:	RTD	REV:	04/24/12
ADDRESS:	655 MARIPOSA ST DENVER CO 80204 DENVER	ID1:	1058
CONTACT:		ID2:	
SOURCE:	COSTIS	STATUS:	CLOSED
		PHONE:	

LUST INFORMATION
STATUS: Closed
LOG DATE: 3/14/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1058

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 2 **DIST/DIR:** 0.28 SE **ELEVATION:** **MAP ID:** 75

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955L
	DENVER CO 80204	ID2:	0800247L
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed04-15-200809-30-2008
- risk/health assessmentEPA Fund-Financed04-12-200510-13-2005
- prospective purchaser agreement assessmentFederal Enforcement11-26-200206-03-2005
- forward planning activity/management assistanceEPA Fund-Financed09-15-200009-27-2000
- preparation of cost document packageFederal Enforcement09-02-200010-19-2001
- remedial design/remedial action negotiationsFederal Enforcement06-15-200010-10-2001
- issue request letters (104e)Federal Enforcement03-28-200003-28-2000
- national priorities list responsible party searchFederal Enforcement03-02-200003-28-2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 2 **DIST/DIR:** 0.28 SE **ELEVATION:** **MAP ID:** 75

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955L
	DENVER CO 80204	ID2:	0800247L
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

combined remedial investigation/feasibility studyEPA Fund-Financed11-15-199906-16-2000

five-year reviewEPA Fund-Financed06-10-199912-21-1999
Primary

preparation of cost document packageFederal Enforcement10-21-199812-15-1998

five-year reviewEPA Fund-Financed01-15-199809-30-2003
Primary

national priorities list responsible party searchFederal Enforcement03-08-199503-30-1995
Primary

preparation of cost document packageFederal Enforcement02-26-199407-11-1994
Primary

preparation of cost document packageFederal Enforcement12-31-199302-25-1994
Primary

potentially responsible party removalResponsible Party06-29-199308-27-1993
Cleaned upPrimary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed04-05-199309-12-1994
Primary

potentially responsible party remedial actionResponsible Party03-31-199306-16-2000
PrimaryOther Completion Anomaly

potentially responsible party remedial actionResponsible Party10-26-199206-29-1994
Higher priority for further assessmentPrimary

potentially responsible party remedial designResponsible Party06-07-199203-31-1993
Alternate

potentially responsible party remedial designResponsible Party06-07-199206-27-1996
Primary

remedial design/remedial action negotiationsFederal Enforcement01-28-199208-21-1992
Primary

preparation of cost document packageFederal Enforcement12-30-199102-11-1994
Primary

state support agency cooperative agreementState, Fund Financed07-25-199109-25-2000
Primary

national priorities list responsible party searchFederal Enforcement06-26-199107-17-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-26-199109-09-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-11-199108-08-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement05-24-199105-24-1991

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 2 **DIST/DIR:** 0.28 SE **ELEVATION:** **MAP ID:** 75

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955L
	DENVER CO 80204	ID2:	0800247L
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

Primary

- national priorities list responsible party searchFederal Enforcement01-09-199106-21-1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-09-199105-29-1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement08-06-199009-29-1992
Primary
- national priorities list responsible party searchFederal Enforcement07-01-198809-12-1988
Search Complete, Viable PRPs
- state support agency cooperative agreementState, Fund Financed02-12-198807-20-1989
Primary
- potentially responsible party remedial designResponsible Party12-11-198703-01-1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement08-03-198703-31-1988
Alternate
- national priorities list responsible party searchFederal Enforcement07-22-198708-25-1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement04-30-198706-29-1987
Primary
- national priorities list responsible party searchFederal Enforcement03-24-198706-02-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement09-12-198603-01-1990
Primary
- national priorities list responsible party searchFederal Enforcement05-08-198601-16-1987
- state support agency cooperative agreementState, Fund Financed04-10-198604-11-1991
Primary
- national priorities list responsible party searchFederal Enforcement01-16-198505-08-1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-16-198501-16-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11-26-198401-16-1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed01-03-198401-03-1984
Primary
- state support agency cooperative agreementState, Fund Financed08-19-198311-14-2000
Primary
- remedial investigation/feasibility study workplan approval by hqState, Fund Financed12-31-198112-31-1981
Primary
- notice letters issuedFederal Enforcement08-10-1982
- notice letters issuedEPA Fund-Financed08-10-1982
- hazard ranking system packageEPA Fund-Financed12-01-1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

VCP

SEARCH ID: 262 **DIST/DIR:** 0.28 SE **ELEVATION:** 5208 **MAP ID:** 76

NAME:	BRYANT STREET QUAD	REV:	04/20/12
ADDRESS:	2390 W 4TH AVE	ID1:	1000-76
	DENVER CO 80223	ID2:	990720-1
	DENVER	STATUS:	
CONTACT:		PHONE:	
SOURCE:	CDPHE		

COLORADO VOLUNTARY CLEANUP AND REDEVELOPMENT ACT:

APPLICATION TYPE: BRYANT STREET QUAD
APPLICATION NUMBER: VA-00184
APPLICATION TYPE: NAD
FILE NUMBER: 990720-1
PARENT PROGRAM:
PARENT ID:
PARENT TYPE:
PROJECT MANAGER: MARK WALKER
DATE RECEIVED: 7/20/1999
EXTENSION: Y
LENGTH OF EXTENSION-DAYS: 118
DATE DUE: 12/30/1999
DECISION: APPROVED
DATE OF DECISION: 12/20/1999

REMEDATION START DATE:
REMEDATION END DATE:
REVIEW COST: 1213.55
TAX CREDIT:
RESIDENCES CREATED:
JOBS CREATED:
CLEANUP ACRES: 10
OTHER ISSUES: Upgradient Source
MEDIA AFFECTED1: SOIL - Total Petroleum Hydrocarbons (TPH)
MEDIA AFFECTED2: GROUND WATER - Volatile Organic Compounds(VOCs)
MEDIA AFFECTED3:
LANDUSE RESTRICTION: INDUSTRIAL
RESTRICTION ID: 1
COVENANT: N

LINK: <http://emaps.dphe.state.co.us/hmtrackreporter/VCRASingle.aspx?Acnm=VCRA&SysID=VA-00184>

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 212 **DIST/DIR:** 0.28 SW **ELEVATION:** 5293 **MAP ID:** 77

NAME:	GAS-A-CAR #54	REV:	04/24/12
ADDRESS:	301 KNOX CT	ID1:	2457
	DENVER CO 80219	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/16/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2457

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 243 **DIST/DIR:** 0.29 SE **ELEVATION:** 5222 **MAP ID:** 78

NAME: MURRAY DISTRIBUTING CO INC
ADDRESS: 1505 W 3RD AVE
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 540
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/14/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=540

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 201 **DIST/DIR:** 0.29 NE **ELEVATION:** 5190 **MAP ID:** 79

NAME: CHEVRON USA INC
ADDRESS: 2403 W 8TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 1434
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/27/1987

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1434

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 233 **DIST/DIR:** 0.29 SE **ELEVATION:** 5204 **MAP ID:** 80

NAME: WYLACO SUPPLY CO
ADDRESS: 295 VALLEJO
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 1375
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/27/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1375

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 236 **DIST/DIR:** 0.30 SE **ELEVATION:** 5219 **MAP ID:** 81

NAME:	BP INVESTMENT	REV:	04/24/12
ADDRESS:	330 QUIVAS ST	ID1:	3071
	DENVER CO 80223	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/12/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3071

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 3 **DIST/DIR:** 0.33 SE **ELEVATION:** **MAP ID:** 82

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER	ID1:	COD980716955M
CONTACT:	JACK WHYTE	ID2:	0800247M
SOURCE:	EPA	STATUS:	FINAL
		PHONE:	3033126707

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed04-15-200809-30-2008
- risk/health assessmentEPA Fund-Financed04-12-200510-13-2005
- prospective purchaser agreement assessmentFederal Enforcement11-26-200206-03-2005
- forward planning activity/management assistanceEPA Fund-Financed09-15-200009-27-2000
- preparation of cost document packageFederal Enforcement09-02-200010-19-2001
- remedial design/remedial action negotiationsFederal Enforcement06-15-200010-10-2001
- issue request letters (104e)Federal Enforcement03-28-200003-28-2000
- national priorities list responsible party searchFederal Enforcement03-02-200003-28-2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 3 **DIST/DIR:** 0.33 SE **ELEVATION:** **MAP ID:** 82

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955M
	DENVER CO 80204	ID2:	0800247M
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

combined remedial investigation/feasibility studyEPA Fund-Financed11-15-199906-16-2000

five-year reviewEPA Fund-Financed06-10-199912-21-1999
Primary

preparation of cost document packageFederal Enforcement10-21-199812-15-1998

five-year reviewEPA Fund-Financed01-15-199809-30-2003
Primary

national priorities list responsible party searchFederal Enforcement03-08-199503-30-1995
Primary

preparation of cost document packageFederal Enforcement02-26-199407-11-1994
Primary

preparation of cost document packageFederal Enforcement12-31-199302-25-1994
Primary

potentially responsible party removalResponsible Party06-29-199308-27-1993
Cleaned upPrimary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed04-05-199309-12-1994
Primary

potentially responsible party remedial actionResponsible Party03-31-199306-16-2000
PrimaryOther Completion Anomaly

potentially responsible party remedial actionResponsible Party10-26-199206-29-1994
Higher priority for further assessmentPrimary

potentially responsible party remedial designResponsible Party06-07-199203-31-1993
Alternate

potentially responsible party remedial designResponsible Party06-07-199206-27-1996
Primary

remedial design/remedial action negotiationsFederal Enforcement01-28-199208-21-1992
Primary

preparation of cost document packageFederal Enforcement12-30-199102-11-1994
Primary

state support agency cooperative agreementState, Fund Financed07-25-199109-25-2000
Primary

national priorities list responsible party searchFederal Enforcement06-26-199107-17-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-26-199109-09-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-11-199108-08-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement05-24-199105-24-1991

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 3 **DIST/DIR:** 0.33 SE **ELEVATION:** **MAP ID:** 82

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955M
	DENVER CO 80204	ID2:	0800247M
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

Primary

- national priorities list responsible party searchFederal Enforcement01-09-199106-21-1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-09-199105-29-1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement08-06-199009-29-1992
Primary
- national priorities list responsible party searchFederal Enforcement07-01-198809-12-1988
Search Complete, Viable PRPs
- state support agency cooperative agreementState, Fund Financed02-12-198807-20-1989
Primary
- potentially responsible party remedial designResponsible Party12-11-198703-01-1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement08-03-198703-31-1988
Alternate
- national priorities list responsible party searchFederal Enforcement07-22-198708-25-1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement04-30-198706-29-1987
Primary
- national priorities list responsible party searchFederal Enforcement03-24-198706-02-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement09-12-198603-01-1990
Primary
- national priorities list responsible party searchFederal Enforcement05-08-198601-16-1987
- state support agency cooperative agreementState, Fund Financed04-10-198604-11-1991
Primary
- national priorities list responsible party searchFederal Enforcement01-16-198505-08-1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-16-198501-16-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11-26-198401-16-1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed01-03-198401-03-1984
Primary
- state support agency cooperative agreementState, Fund Financed08-19-198311-14-2000
Primary
- remedial investigation/feasibility study workplan approval by hqState, Fund Financed12-31-198112-31-1981
Primary
- notice letters issuedFederal Enforcement08-10-1982
- notice letters issuedEPA Fund-Financed08-10-1982
- hazard ranking system packageEPA Fund-Financed12-01-1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 144 DIST/DIR: 0.31 SE ELEVATION: MAP ID: 82

NAME: KNOWN LANDFILL REV: 12/01/08
ADDRESS: S BOUNDARIES APPROXIMATE: N; OF W. ID1: 132
DENVER CO ID2: 00070-0000676
DENVER STATUS: HISTORIC
CONTACT: PHONE:
SOURCE: CDPHE/COUNTY

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.33 SE **ELEVATION:** 5227 **MAP ID:** 83

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER	ID1:	COD980716955L
CONTACT:	JACK WHYTE	ID2:	0800247L
SOURCE:	EPA	STATUS:	FINAL
		PHONE:	3033126707

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed04-15-200809-30-2008
- risk/health assessmentEPA Fund-Financed04-12-200510-13-2005
- prospective purchaser agreement assessmentFederal Enforcement11-26-200206-03-2005
- forward planning activity/management assistanceEPA Fund-Financed09-15-200009-27-2000
- preparation of cost document packageFederal Enforcement09-02-200010-19-2001
- remedial design/remedial action negotiationsFederal Enforcement06-15-200010-10-2001
- issue request letters (104e)Federal Enforcement03-28-200003-28-2000
- national priorities list responsible party searchFederal Enforcement03-02-200003-28-2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.33 SE **ELEVATION:** 5227 **MAP ID:** 83

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955L
	DENVER CO 80204	ID2:	0800247L
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

combined remedial investigation/feasibility studyEPA Fund-Financed11-15-199906-16-2000

five-year reviewEPA Fund-Financed06-10-199912-21-1999
Primary

preparation of cost document packageFederal Enforcement10-21-199812-15-1998

five-year reviewEPA Fund-Financed01-15-199809-30-2003
Primary

national priorities list responsible party searchFederal Enforcement03-08-199503-30-1995
Primary

preparation of cost document packageFederal Enforcement02-26-199407-11-1994
Primary

preparation of cost document packageFederal Enforcement12-31-199302-25-1994
Primary

potentially responsible party removalResponsible Party06-29-199308-27-1993
Cleaned upPrimary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed04-05-199309-12-1994
Primary

potentially responsible party remedial actionResponsible Party03-31-199306-16-2000
PrimaryOther Completion Anomaly

potentially responsible party remedial actionResponsible Party10-26-199206-29-1994
Higher priority for further assessmentPrimary

potentially responsible party remedial designResponsible Party06-07-199203-31-1993
Alternate

potentially responsible party remedial designResponsible Party06-07-199206-27-1996
Primary

remedial design/remedial action negotiationsFederal Enforcement01-28-199208-21-1992
Primary

preparation of cost document packageFederal Enforcement12-30-199102-11-1994
Primary

state support agency cooperative agreementState, Fund Financed07-25-199109-25-2000
Primary

national priorities list responsible party searchFederal Enforcement06-26-199107-17-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-26-199109-09-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-11-199108-08-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement05-24-199105-24-1991

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.33 SE **ELEVATION:** 5227 **MAP ID:** 83

NAME:	DENVER RADIUM SITE 94	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955L
	DENVER CO 80204	ID2:	0800247L
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

Primary

- national priorities list responsible party searchFederal Enforcement01-09-199106-21-1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-09-199105-29-1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement08-06-199009-29-1992
Primary
- national priorities list responsible party searchFederal Enforcement07-01-198809-12-1988
Search Complete, Viable PRPs
- state support agency cooperative agreementState, Fund Financed02-12-198807-20-1989
Primary
- potentially responsible party remedial designResponsible Party12-11-198703-01-1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement08-03-198703-31-1988
Alternate
- national priorities list responsible party searchFederal Enforcement07-22-198708-25-1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement04-30-198706-29-1987
Primary
- national priorities list responsible party searchFederal Enforcement03-24-198706-02-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement09-12-198603-01-1990
Primary
- national priorities list responsible party searchFederal Enforcement05-08-198601-16-1987
- state support agency cooperative agreementState, Fund Financed04-10-198604-11-1991
Primary
- national priorities list responsible party searchFederal Enforcement01-16-198505-08-1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-16-198501-16-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11-26-198401-16-1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed01-03-198401-03-1984
Primary
- state support agency cooperative agreementState, Fund Financed08-19-198311-14-2000
Primary
- remedial investigation/feasibility study workplan approval by hqState, Fund Financed12-31-198112-31-1981
Primary
- notice letters issuedFederal Enforcement08-10-1982
- notice letters issuedEPA Fund-Financed08-10-1982
- hazard ranking system packageEPA Fund-Financed12-01-1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 241 **DIST/DIR:** 0.33 SE **ELEVATION:** 5224 **MAP ID:** 84

NAME: BOYD DISTRIBUTING CO
ADDRESS: 350 OSAGE ST
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 140
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/30/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=140

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 135 **DIST/DIR:** 0.33 SE **ELEVATION:** **MAP ID:** 85

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	APPROXIMATE: N: W. 3RD AVE., E: S. DENVER CO DENVER	ID1:	135
CONTACT:		ID2:	00070-0000679
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 214 **DIST/DIR:** 0.33 SE **ELEVATION:** 5206 **MAP ID:** 86

NAME: HIGHLAND SALES CO INC
ADDRESS: 236 WYANDOT
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3225
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/5/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3225

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 239 **DIST/DIR:** 0.35 SE **ELEVATION:** 5210 **MAP ID:** 87

NAME: WASTEWATER MANAGEMENT FACILITY
ADDRESS: 2000 W 3RD AVE
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3635
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/26/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3635

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 249 **DIST/DIR:** 0.35 SE **ELEVATION:** 5226 **MAP ID:** 88

NAME: BOYD DISTRIBUTING
ADDRESS: 340 NAVAJO ST
DENVER CO 80202
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 6994
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 10/18/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6994

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.36 SE **ELEVATION:** 5229 **MAP ID:** 89

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955M
	DENVER CO 80204	ID2:	0800247M
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

SITE INFORMATION

EVENT TYPE
 SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
 SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
 FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
 SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
 THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
 FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed04-15-200809-30-2008
- risk/health assessmentEPA Fund-Financed04-12-200510-13-2005
- prospective purchaser agreement assessmentFederal Enforcement11-26-200206-03-2005
- forward planning activity/management assistanceEPA Fund-Financed09-15-200009-27-2000
- preparation of cost document packageFederal Enforcement09-02-200010-19-2001
- remedial design/remedial action negotiationsFederal Enforcement06-15-200010-10-2001
- issue request letters (104e)Federal Enforcement03-28-200003-28-2000
- national priorities list responsible party searchFederal Enforcement03-02-200003-28-2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.36 SE **ELEVATION:** 5229 **MAP ID:** 89

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955M
	DENVER CO 80204	ID2:	0800247M
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

combined remedial investigation/feasibility studyEPA Fund-Financed11-15-199906-16-2000

five-year reviewEPA Fund-Financed06-10-199912-21-1999
Primary

preparation of cost document packageFederal Enforcement10-21-199812-15-1998

five-year reviewEPA Fund-Financed01-15-199809-30-2003
Primary

national priorities list responsible party searchFederal Enforcement03-08-199503-30-1995
Primary

preparation of cost document packageFederal Enforcement02-26-199407-11-1994
Primary

preparation of cost document packageFederal Enforcement12-31-199302-25-1994
Primary

potentially responsible party removalResponsible Party06-29-199308-27-1993
Cleaned upPrimary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed04-05-199309-12-1994
Primary

potentially responsible party remedial actionResponsible Party03-31-199306-16-2000
PrimaryOther Completion Anomaly

potentially responsible party remedial actionResponsible Party10-26-199206-29-1994
Higher priority for further assessmentPrimary

potentially responsible party remedial designResponsible Party06-07-199203-31-1993
Alternate

potentially responsible party remedial designResponsible Party06-07-199206-27-1996
Primary

remedial design/remedial action negotiationsFederal Enforcement01-28-199208-21-1992
Primary

preparation of cost document packageFederal Enforcement12-30-199102-11-1994
Primary

state support agency cooperative agreementState, Fund Financed07-25-199109-25-2000
Primary

national priorities list responsible party searchFederal Enforcement06-26-199107-17-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-26-199109-09-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-11-199108-08-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement05-24-199105-24-1991

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.36 SE **ELEVATION:** 5229 **MAP ID:** 89

NAME:	DENVER RADIUM SITE 95	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955M
	DENVER CO 80204	ID2:	0800247M
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

Primary

- national priorities list responsible party searchFederal Enforcement01-09-199106-21-1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-09-199105-29-1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement08-06-199009-29-1992
Primary
- national priorities list responsible party searchFederal Enforcement07-01-198809-12-1988
Search Complete, Viable PRPs
- state support agency cooperative agreementState, Fund Financed02-12-198807-20-1989
Primary
- potentially responsible party remedial designResponsible Party12-11-198703-01-1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement08-03-198703-31-1988
Alternate
- national priorities list responsible party searchFederal Enforcement07-22-198708-25-1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement04-30-198706-29-1987
Primary
- national priorities list responsible party searchFederal Enforcement03-24-198706-02-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement09-12-198603-01-1990
Primary
- national priorities list responsible party searchFederal Enforcement05-08-198601-16-1987
- state support agency cooperative agreementState, Fund Financed04-10-198604-11-1991
Primary
- national priorities list responsible party searchFederal Enforcement01-16-198505-08-1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement01-16-198501-16-1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11-26-198401-16-1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed01-03-198401-03-1984
Primary
- state support agency cooperative agreementState, Fund Financed08-19-198311-14-2000
Primary
- remedial investigation/feasibility study workplan approval by hqState, Fund Financed12-31-198112-31-1981
Primary
- notice letters issuedFederal Enforcement08-10-1982
- notice letters issuedEPA Fund-Financed08-10-1982
- hazard ranking system packageEPA Fund-Financed12-01-1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 200 **DIST/DIR:** 0.36 NW **ELEVATION:** 5226 **MAP ID:** 90

NAME: CGF SIGN INC DBA GORDON SIGN CO
ADDRESS: 2930 W 9TH AVE
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 2994
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/25/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2994

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 136 **DIST/DIR:** 0.36 SE **ELEVATION:** **MAP ID:** 91

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	W BOUNDARIES APPROXIMATE: S: W. 1S	ID1:	136
	DENVER CO	ID2:	00070-0000680
	DENVER	STATUS:	HISTORIC
CONTACT:		PHONE:	
SOURCE:	CDPHE/COUNTY		

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

METHANE PRESENT: NO
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: NOT REPORTED

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 145 **DIST/DIR:** 0.36 NE **ELEVATION:** 5232 **MAP ID:** 92

NAME: STAFAB
ADDRESS: 860 NAVAJO
DENVER CO 80204
DENVER

CONTACT:

SOURCE: CDPHE

REV: 12/01/08
ID1: 016-REC-001
ID2:
STATUS:
PHONE:

STATUS : Per CDPHE:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 226 **DIST/DIR:** 0.36 NW **ELEVATION:** 5337 **MAP ID:** 93

NAME:	REID PROPERTY	REV:	04/24/12
ADDRESS:	600 PERRY ST	ID1:	4725
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/23/1994

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4725

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 256 **DIST/DIR:** 0.37 NE **ELEVATION:** 5231 **MAP ID:** 94

NAME: STOUT STREET FOUNDATION
ADDRESS: 875 NAVAJO ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 3161
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/3/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3161

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 252 **DIST/DIR:** 0.37 NE **ELEVATION:** 5230 **MAP ID:** 95

NAME: JEBCO HEATING & AIR CONDITIONING
ADDRESS: 666 LIPAN ST
DENVER CO 80209
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 8929
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/20/2002 8:52:47 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8929

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 254 **DIST/DIR:** 0.37 SE **ELEVATION:** 5230 **MAP ID:** 96

NAME: MASTERS STUDIO
ADDRESS: 1140 W 5TH AVE
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 4740
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/15/1994

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4740

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 203 **DIST/DIR:** 0.38 NW **ELEVATION:** 5210 **MAP ID:** 97

NAME:	DENVER #2	REV:	04/24/12
ADDRESS:	899 DECATUR ST	ID1:	9183
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 4/24/2003 4:22:52 PM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=9183

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 196 **DIST/DIR:** 0.38 NE **ELEVATION:** 5203 **MAP ID:** 98

NAME: BOYS & GIRLS CLUB OF DENVER
ADDRESS: 901 TEJON ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 1515
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/4/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1515

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 248 **DIST/DIR:** 0.38 NE **ELEVATION:** 5230 **MAP ID:** 99

NAME: BELCON MECHANICAL
ADDRESS: 630 LIPAN
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 3218
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/14/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3218

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 1 **DIST/DIR:** 0.39 NE **ELEVATION:** **MAP ID:** 100

NAME:	DENVER RADIUM SITE	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204	ID1:	COD980716955
		ID2:	0800247
		STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALY DELETED DATE: 11/08/2010

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

FINAL DATE: 9/27/2006

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed4/15/20089/30/2008
- risk/health assessmentEPA Fund-Financed4/12/200510/13/2005
- prospective purchaser agreement assessmentFederal Enforcement11/26/20026/3/2005
- forward planning activity/management assistanceEPA Fund-Financed9/15/20009/27/2000
- preparation of cost document packageFederal Enforcement9/2/200010/19/2001
- remedial design/remedial action negotiationsFederal Enforcement6/15/200010/10/2001
- issue request letters (104e)Federal Enforcement3/28/20003/28/2000
- national priorities list responsible party searchFederal Enforcement3/2/20003/28/2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 1 **DIST/DIR:** 0.39 NE **ELEVATION:** **MAP ID:** 100

NAME:	DENVER RADIUM SITE	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204	ID1:	COD980716955
		ID2:	0800247
CONTACT:	JACK WHYTE	STATUS:	FINAL
SOURCE:	EPA	PHONE:	3033126707

- preparation of cost document packageFederal Enforcement11/29/19991/25/2000
- combined remedial investigation/feasibility studyEPA Fund-Financed11/15/19996/16/2000
- five-year reviewEPA Fund-Financed6/10/199912/21/1999
Primary
- preparation of cost document packageFederal Enforcement10/21/199812/15/1998
- five-year reviewEPA Fund-Financed1/15/19989/30/2003
Primary
- national priorities list responsible party searchFederal Enforcement3/8/19953/30/1995
Primary
- preparation of cost document packageFederal Enforcement2/26/19947/11/1994
Primary
- preparation of cost document packageFederal Enforcement12/31/19932/25/1994
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed4/5/19939/12/1994
Primary
- potentially responsible party remedial actionResponsible Party3/31/19936/16/2000
PrimaryOther Completion Anomaly
- potentially responsible party remedial actionResponsible Party10/26/19926/29/1994
Higher priority for further assessmentPrimary
- potentially responsible party remedial designResponsible Party6/7/19923/31/1993
Alternate
- potentially responsible party remedial designResponsible Party6/7/19926/27/1996
Primary
- remedial design/remedial action negotiationsFederal Enforcement1/28/19928/21/1992
Primary
- preparation of cost document packageFederal Enforcement12/30/19912/11/1994
Primary
- state support agency cooperative agreement State, Fund Financed 7/25/19919/25/2000
Primary
- national priorities list responsible party searchFederal Enforcement6/26/19917/17/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/26/19919/9/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/11/19918/8/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement5/24/19915/24/1991
- preparation of cost document packageFederal Enforcement3/30/19919/30/1991
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 1 **DIST/DIR:** 0.39 NE **ELEVATION:** **MAP ID:** 100

NAME:	DENVER RADIUM SITE	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204	ID1:	COD980716955
		ID2:	0800247
CONTACT:	JACK WHYTE	STATUS:	FINAL
SOURCE:	EPA	PHONE:	3033126707

- national priorities list responsible party searchFederal Enforcement1/9/19916/21/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/9/19915/29/1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement8/6/19909/29/1992
Primary
- national priorities list responsible party searchFederal Enforcement7/1/19889/12/1988
Search Complete, Viable PRPs
- state support agency cooperative agreement State, Fund Financed 2/12/19887/20/1989
Primary
- potentially responsible party remedial designResponsible Party12/11/19873/1/1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement8/3/19873/31/1988
Alternate
- national priorities list responsible party searchFederal Enforcement7/22/19878/25/1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement4/30/19876/29/1987
Primary
- national priorities list responsible party searchFederal Enforcement3/24/19876/2/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement9/12/19863/1/1990
Primary
- national priorities list responsible party searchFederal Enforcement5/8/19861/16/1987
- state support agency cooperative agreement State, Fund Financed 4/10/19864/11/1991
Primary
- national priorities list responsible party searchFederal Enforcement1/16/19855/8/1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/16/19851/16/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11/26/19841/16/1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed1/3/19841/3/1984
Primary
- state support agency cooperative agreement State, Fund Financed 8/19/198311/14/2000
Primary
- remedial investigation/feasibility study workplan approval by hq State, Fund Financed 12/31/198112/31/1981
Primary
- notice letters issuedFederal Enforcement8/10/1982
- notice letters issuedEPA Fund-Financed8/10/1982
- hazard ranking system packageEPA Fund-Financed12/1/1982
- proposal to national priorities listEPA Fund-Financed12/30/1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 231 **DIST/DIR:** 0.39 SE **ELEVATION:** 5207 **MAP ID:** 101

NAME:	SLATTERY & CO	REV:	04/24/12
ADDRESS:	181 VALLEJO ST	ID1:	6078
	DENVER CO 80223	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/5/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6078

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 193 **DIST/DIR:** 0.39 SW **ELEVATION:** 5259 **MAP ID:** 102

NAME:	ALBERT WEDELL	REV:	04/24/12
ADDRESS:	168 FEDERAL BLVD	ID1:	555
	DENVER CO 80219	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/20/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=555

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 225 **DIST/DIR:** 0.39 NW **ELEVATION:** 5343 **MAP ID:** 103

NAME:	NUCRISP	REV:	04/24/12
ADDRESS:	601 PERRY ST	ID1:	4172
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 10/24/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4172

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 250 **DIST/DIR:** 0.39 NE **ELEVATION:** 5237 **MAP ID:** 104

NAME: CRAIG & ASSOC
ADDRESS: 745 LIPAN ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 4355
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/16/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4355

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 223 **DIST/DIR:** 0.40 SE **ELEVATION:** 5208 **MAP ID:** 105

NAME: NEUSTETER PROPERTY
ADDRESS: 2450 W 2ND AVE
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 1825
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 6/18/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1825

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 194 **DIST/DIR:** 0.41 SE **ELEVATION:** 5208 **MAP ID:** 106

NAME: ALVIN KRUTSCH PROPERTY
ADDRESS: 146 YUMA ST
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 2084
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 1/17/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2084

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

VCP

SEARCH ID: 263 **DIST/DIR:** 0.43 NE **ELEVATION:** 5230 **MAP ID:** 107

NAME: 10TH AND OSAGE PROPERTIES
ADDRESS: 944 OSAGE ST
DENVER CO 80204
DENVER

REV: 04/20/12
ID1: 080509-2
ID2: 080509-2
STATUS:
PHONE:

CONTACT:
SOURCE: CDPHE

COLORADO VOLUNTARY CLEANUP AND REDEVELOPMENT ACT:

APPLICATION TYPE:
APPLICATION NUMBER:
APPLICATION TYPE: NAD
FILE NUMBER: 080509-2
PARENT PROGRAM:
PARENT ID:
PARENT TYPE:
PROJECT MANAGER:
DATE RECEIVED:
EXTENSION:
LENGTH OF EXTENSION-DAYS:
DATE DUE:
DECISION:
DATE OF DECISION:

REMEDATION START DATE:
REMEDATION END DATE:
REVIEW COST:
TAX CREDIT:
RESIDENCES CREATED:
JOBS CREATED:
CLEANUP ACRES:
OTHER ISSUES:
MEDIA AFFECTED1:
MEDIA AFFECTED2:
MEDIA AFFECTED3:
LANDUSE RESTRICTION:
RESTRICTION ID:
COVENANT:

LINK: <http://emaps.dphe.state.co.us/hmtrackreporter/VCRASingle.aspx?Acnm=VCRA&SysID=>

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRATSD

SEARCH ID: 13 DIST/DIR: 0.44 NE ELEVATION: 5202 MAP ID: 108

NAME:	KATZSON BROTHERS INC	REV:	6/8/02
ADDRESS:	960 VALLEJO ST DENVER CO 80204 DENVER	ID1:	COD031992225
CONTACT:	RICHARD-H RIGHT	ID2:	
SOURCE:	EPA	STATUS:	TSD
		PHONE:	3038933535

SITE INFORMATION

CONTACT INFORMATION: RICHARD-H RIGHT

960 VALLEJO ST
DENVER CO 80204

PHONE: 3038933535

UNIVERSE NAME:

DF: LAND DISPOSAL FACILITY
INCINERATOR
TSDS SUBJECT TO CORRECTIVE ACT
SUBJECT TO CEI
ST: STORAGE AND TREATMENT
SUBJECT TO CORRECTIVE ACTION

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 16 DIST/DIR: 0.44 NE ELEVATION: 5202 MAP ID: 108

NAME: KATZSON BROTHERS INC
ADDRESS: 960 VALLEJO ST
DENVER CO 80204
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD031992225
ID2:
STATUS: CA
PHONE:

SITE INFORMATION

CONTACT INFORMATION: RICHARD-H RIGHT
960 VALLEJO ST
DENVER CO 80204

PHONE: 3038933535

OWNER NAME:KATZSON BROTHERS INC
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:960 VALLEJO ST
DENVER, CO 80204

UNIVERSE INFORMATION:

RECEIVED DATE:02/15/1994

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:+GW CONTROLS:
LAND TYPE:SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 16 DIST/DIR: 0.44 NE ELEVATION: 5202 MAP ID: 108

NAME:	KATZSON BROTHERS INC	REV:	1/10/12
ADDRESS:	960 VALLEJO ST	ID1:	COD031992225
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CA
CONTACT:		PHONE:	
SOURCE:	EPA		

- OTHER MISCELLANEOUS NONDURABLE GOODS WHOLESALERS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

CORRECTIVE ACTION INFORMATION

CA EVENT:92/07/1992 CA070YE - DETERMINATION OF NEED FOR AN RFI - RFI IS NECESSARY
CA EVENT:92/03/1992 CA060 - NOTICE OF CONTAMINATION
CA EVENT:92/07/1992 CA075ME - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A MEDIUM CORRECTIVE ACTION PRIORITY
CA EVENT:92/07/1992 CA100 - RFI IMPOSITION
CA EVENT:92/03/1992 CA006AC
CA EVENT:93/11/1993 CA150 - RFI WORKPLAN APPROVED
CA EVENT:93/18/1993 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY
CA EVENT:93/11/1993 CA110 - RFI WORKPLAN RECEIVED
CA EVENT:93/17/1993 CA110 - RFI WORKPLAN RECEIVED
CA EVENT:93/27/1993 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY
CA EVENT:93/17/1993 CA190 - RFI REPORT RECEIVED
CA EVENT:93/18/1993 CA150 - RFI WORKPLAN APPROVED
CA EVENT:93/15/1993 CA180 - RFI IMPLEMENTATION BEGUN
CA EVENT:94/09/1994 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:94/26/1994 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:94/14/1994 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:95/01/1995 CA225YE - STABILIZATION MEASURES EVALUATION - FACILITY IS AMENABLE TO STABILIZATION ACTIVITY
CA EVENT:95/01/1995 CA725YE - CURRENT HUMAN EXPOSURES UNDER CONTROL - UNDER CONTROL
CA EVENT:96/23/1996 CA110 - RFI WORKPLAN RECEIVED

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 216 **DIST/DIR:** 0.44 NE **ELEVATION:** 5202 **MAP ID:** 108

NAME: KATZSON BROTHERS INC
ADDRESS: 960 VALLEJO ST
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 2378
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/17/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2378

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 253 **DIST/DIR:** 0.44 SE **ELEVATION:** 5239 **MAP ID:** 109

NAME: KALAMATH ASSOCIATES PROPERTY
ADDRESS: 570 KALAMATH ST
DENVER CO 80204
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 623
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 9/9/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=623

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 141 **DIST/DIR:** 0.45 NW **ELEVATION:** **MAP ID:** 110

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	N BOUNDARIES APPROXIMATE: EXTENDS DENVER CO DENVER	ID1:	116
CONTACT:		ID2:	00070-0000661
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

NO METHANE FOUND
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 217 **DIST/DIR:** 0.45 SE **ELEVATION:** 5210 **MAP ID:** 111

NAME: KING SOOPERS GARAGE / FLEET MAINTENANCE
ADDRESS: 95 TEJON ST
DENVER CO 80223
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 8703
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/14/2001

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8703

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 8 **DIST/DIR:** 0.46 NE **ELEVATION:** **MAP ID:** 112

NAME:	DENVER RADIUM SITE-OU 9A	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER	ID1:	COD980716955H
CONTACT:	JACK WHYTE	ID2:	0800247
SOURCE:	EPA	STATUS:	FINAL
		PHONE:	3033126707

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALY DELETED DATE: 11/08/2010

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

FINAL DATE: 9/27/2006

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

five-year reviewEPA Fund-Financed4/15/20089/30/2008

risk/health assessmentEPA Fund-Financed4/12/200510/13/2005

prospective purchaser agreement assessmentFederal Enforcement11/26/20026/3/2005

forward planning activity/management assistanceEPA Fund-Financed9/15/20009/27/2000

preparation of cost document packageFederal Enforcement9/2/200010/19/2001

remedial design/remedial action negotiationsFederal Enforcement6/15/200010/10/2001

issue request letters (104e)Federal Enforcement3/28/20003/28/2000

national priorities list responsible party searchFederal Enforcement3/2/20003/28/2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 8 **DIST/DIR:** 0.46 NE **ELEVATION:** **MAP ID:** 112

NAME:	DENVER RADIUM SITE-OU 9A	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955H
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- preparation of cost document packageFederal Enforcement11/29/19991/25/2000
- combined remedial investigation/feasibility studyEPA Fund-Financed11/15/19996/16/2000
- five-year reviewEPA Fund-Financed6/10/199912/21/1999
Primary
- preparation of cost document packageFederal Enforcement10/21/199812/15/1998
- five-year reviewEPA Fund-Financed1/15/19989/30/2003
Primary
- national priorities list responsible party searchFederal Enforcement3/8/19953/30/1995
Primary
- preparation of cost document packageFederal Enforcement2/26/19947/11/1994
Primary
- preparation of cost document packageFederal Enforcement12/31/19932/25/1994
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed4/5/19939/12/1994
Primary
- potentially responsible party remedial actionResponsible Party3/31/19936/16/2000
PrimaryOther Completion Anomaly
- potentially responsible party remedial actionResponsible Party10/26/19926/29/1994
Higher priority for further assessmentPrimary
- potentially responsible party remedial designResponsible Party6/7/19923/31/1993
Alternate
- potentially responsible party remedial designResponsible Party6/7/19926/27/1996
Primary
- remedial design/remedial action negotiationsFederal Enforcement1/28/19928/21/1992
Primary
- preparation of cost document packageFederal Enforcement12/30/19912/11/1994
Primary
- state support agency cooperative agreement State, Fund Financed 7/25/19919/25/2000
Primary
- national priorities list responsible party searchFederal Enforcement6/26/19917/17/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/26/19919/9/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/11/19918/8/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement5/24/19915/24/1991
- preparation of cost document packageFederal Enforcement3/30/19919/30/1991
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 8 **DIST/DIR:** 0.46 NE **ELEVATION:** **MAP ID:** 112

NAME:	DENVER RADIUM SITE-OU 9A	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955H
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- national priorities list responsible party searchFederal Enforcement1/9/19916/21/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/9/19915/29/1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement8/6/19909/29/1992
Primary
- national priorities list responsible party searchFederal Enforcement7/1/19889/12/1988
Search Complete, Viable PRPs
- state support agency cooperative agreement State, Fund Financed 2/12/19887/20/1989
Primary
- potentially responsible party remedial designResponsible Party12/11/19873/1/1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement8/3/19873/31/1988
Alternate
- national priorities list responsible party searchFederal Enforcement7/22/19878/25/1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement4/30/19876/29/1987
Primary
- national priorities list responsible party searchFederal Enforcement3/24/19876/2/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement9/12/19863/1/1990
Primary
- national priorities list responsible party searchFederal Enforcement5/8/19861/16/1987
- state support agency cooperative agreement State, Fund Financed 4/10/19864/11/1991
Primary
- national priorities list responsible party searchFederal Enforcement1/16/19855/8/1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/16/19851/16/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11/26/19841/16/1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed1/3/19841/3/1984
Primary
- state support agency cooperative agreement State, Fund Financed 8/19/198311/14/2000
Primary
- remedial investigation/feasibility study workplan approval by hq State, Fund Financed 12/31/198112/31/1981
Primary
- notice letters issuedEPA Fund-Financed8/10/1982
- notice letters issuedFederal Enforcement8/10/1982
- hazard ranking system packageEPA Fund-Financed12/1/1982
- proposal to national priorities listEPA Fund-Financed12/30/1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

SWL

SEARCH ID: 140 **DIST/DIR:** 0.46 NW **ELEVATION:** **MAP ID:** 112

NAME:	KNOWN LANDFILL	REV:	12/01/08
ADDRESS:	BOUNDARIES APPROXIMATE: BETWEEN QU DENVER CO DENVER	ID1:	122
CONTACT:		ID2:	00070-0000666
SOURCE:	CDPHE/COUNTY	STATUS:	HISTORIC
		PHONE:	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 219 **DIST/DIR:** 0.46 NE **ELEVATION:** 5200 **MAP ID:** 113

NAME:	LOOMIS	REV:	04/24/12
ADDRESS:	974 YUMA ST	ID1:	10678
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/14/2008 7:39:16 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10678

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 247 **DIST/DIR:** 0.46 NE **ELEVATION:** 5242 **MAP ID:** 114

NAME: ADCO GENERAL CORPORATION PROPERTY
ADDRESS: 1021 W 8TH AVE
DENVER CO 80218
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 7236
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 2/3/1999

LINK: http://costis.cdle.state.co.us/event.asp?h_id=7236

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRATSD

SEARCH ID: 12 DIST/DIR: 0.47 NE ELEVATION: 5200 MAP ID: 115

NAME: G&K SERVICE INCORPORATED
ADDRESS: 999 VALLEJO ST
DENVER CO 80204
DENVER

REV: 6/8/02
ID1: COD983789447
ID2:
STATUS: TSD
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE NAME:

INCINERATOR
ST: STORAGE AND TREATMENT
SUBJECT TO CEI
DF: LAND DISPOSAL FACILITY
TSDS SUBJECT TO CORRECTIVE ACT
SUBJECT TO CORRECTIVE ACTION

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 15 DIST/DIR: 0.47 NE ELEVATION: 5200 MAP ID: 115

NAME:	G&K SERVICE INCORPORATED	REV:	1/10/12
ADDRESS:	999 VALLEJO ST	ID1:	COD983789447
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CA
CONTACT:		PHONE:	
SOURCE:	EPA		

SITE INFORMATION

OWNER NAME:
OWNER TYPE:
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:
,

UNIVERSE INFORMATION:

RECEIVED DATE:08/22/1990

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:+GW CONTROLS:N- NO
LAND TYPE:P-PRIVATE SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 15 **DIST/DIR:** 0.47 NE **ELEVATION:** 5200 **MAP ID:** 115

NAME: G&K SERVICE INCORPORATED
ADDRESS: 999 VALLEJO ST
DENVER CO 80204
DENVER

REV: 1/10/12
ID1: COD983789447
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CORRECTIVE ACTION INFORMATION

CA EVENT:90/17/1990 CA006AC
CA EVENT:90/17/1990 CA060 - NOTICE OF CONTAMINATION
CA EVENT:90/28/1990 CA100 - RFI IMPOSITION
CA EVENT:90/17/1990 CA110 - RFI WORKPLAN RECEIVED
CA EVENT:90/28/1990 CA150 - RFI WORKPLAN APPROVED
CA EVENT:92/02/1992 CA190 - RFI REPORT RECEIVED
CA EVENT:92/27/1992 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:93/11/1993 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY
CA EVENT:93/09/1993 CA180 - RFI IMPLEMENTATION BEGUN
CA EVENT:93/13/1993 CA110 - RFI WORKPLAN RECEIVED
CA EVENT:93/03/1993 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:93/13/1993 CA150 - RFI WORKPLAN APPROVED
CA EVENT:95/11/1995 CA075ME - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A MEDIUM CORRECTIVE ACTION PRIORITY
CA EVENT:95/01/1995 CA225IN - STABILIZATION MEASURES EVALUATION - FACILITY IS NOT AMENABLE TO STABILIZATION ACTIVITY (LACK OF DATA)
CA EVENT:95/01/1995 CA725YE - CURRENT HUMAN EXPOSURES UNDER CONTROL - UNDER CONTROL
CA EVENT:02/21/2002 CA190 - RFI REPORT RECEIVED
CA EVENT:03/04/2003 CA250 - CMS IMPOSITION
CA EVENT:03/04/2003 CA200 - RFI APPROVED
CA EVENT:06/30/2006 CA200 - RFI APPROVED
CA EVENT:06/16/2006 CA190 - RFI REPORT RECEIVED
CA EVENT:06/16/2006 CA260 - CMS WORKPLAN RECEIVED
CA EVENT:06/30/2006 CA270 - CMS WORKPLAN MODIFICATION REQUESTED BY AGENCY
CA EVENT:10/06/2010 CA811OM

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 222 **DIST/DIR:** 0.48 SE **ELEVATION:** 5227 **MAP ID:** 116

NAME: MIRAMAR PARTNERSHIP
ADDRESS: 2490 W 2ND AVE
DENVER CO 80223
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 5072
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 3/18/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5072

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 221 **DIST/DIR:** 0.48 SE **ELEVATION:** 5210 **MAP ID:** 117

NAME: MCCAFFREY FACILITY
ADDRESS: 110 YUMA ST
DENVER CO 80223
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 9308
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/19/2003 10:04:43 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=9308

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 251 **DIST/DIR:** 0.48 NE **ELEVATION:** 5241 **MAP ID:** 118

NAME:	DICK LESNICK	REV:	04/24/12
ADDRESS:	866 LIPAN	ID1:	1616
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 12/9/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1616

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 259 **DIST/DIR:** 0.49 NE **ELEVATION:** 5243 **MAP ID:** 119

NAME: SIXTH & SANTA FE CAR WASH
ADDRESS: 603 SANTA FE DR
DENVER CO 80204
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 6587
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 6/2/1998

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6587

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 257 **DIST/DIR:** 0.49 SE **ELEVATION:** 5230 **MAP ID:** 120

NAME:	WASTE WATER MGMT	REV:	04/24/12
ADDRESS:	3RD AVE & S PLATTE RIVER DR	ID1:	4990
	DENVER CO 80223	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 5/22/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4990

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 187 **DIST/DIR:** 0.50 SW **ELEVATION:** 5280 **MAP ID:** 121

NAME: 7-ELEVEN #1825-23603
ADDRESS: 105 KNOX CT
DENVER CO 80219
DENVER

CONTACT:
SOURCE: COSTIS

REV: 04/24/12
ID1: 564
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION
STATUS: Closed
LOG DATE: 8/2/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=564

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 188 **DIST/DIR:** 0.50 SW **ELEVATION:** 5280 **MAP ID:** 121

NAME: 7-ELEVEN #23603
ADDRESS: 105 KNOX CT
DENVER CO 80219
DENVER

REV:
ID1: 8108
ID2: 4857
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

IS LUST ACTIVE (Y/N)? N

TANK INFORMATION

TANK STATUS: Currently In Use
TANK INSTALLED DATE:
TANK CAPACITY: 12000 GALLONS
TANK CONTENTS: Gasoline
TANK MATERIAL OF CONSTRUCTION: Cathodically Protected Steel
PIPE MATERIAL OF CONSTRUCTION: Fiberglass Reinforced Plastic

TANK STATUS: Currently In Use
TANK INSTALLED DATE:
TANK CAPACITY: 12000 GALLONS
TANK CONTENTS: Gasoline
TANK MATERIAL OF CONSTRUCTION: Cathodically Protected Steel
PIPE MATERIAL OF CONSTRUCTION: Fiberglass Reinforced Plastic

TANK STATUS: Currently In Use
TANK INSTALLED DATE:
TANK CAPACITY: 12000 GALLONS
TANK CONTENTS: Gasoline
TANK MATERIAL OF CONSTRUCTION: Cathodically Protected Steel
PIPE MATERIAL OF CONSTRUCTION: Fiberglass Reinforced Plastic

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 189 **DIST/DIR:** 0.50 SW **ELEVATION:** 5280 **MAP ID:** 121

NAME: 7-ELEVEN #23603
ADDRESS: 105 KNOX CT
DENVER CO 80219
DENVER

CONTACT:

SOURCE: COSTIS

REV: 04/24/12
ID1: 10870
ID2:
STATUS: OPEN
PHONE:

LUST INFORMATION
STATUS: Open
LOG DATE: 6/23/2009 9:49:53 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10870

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

LUST

SEARCH ID: 258 **DIST/DIR:** 0.50 SE **ELEVATION:** 5243 **MAP ID:** 122

NAME:	CONOCO SS	REV:	04/24/12
ADDRESS:	571 SANTA FE DR	ID1:	5808
	DENVER CO 80204	ID2:	
	DENVER	STATUS:	CLOSED
CONTACT:		PHONE:	
SOURCE:	COSTIS		

LUST INFORMATION
STATUS: Closed
LOG DATE: 3/5/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5808

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 20 DIST/DIR: 0.58 SE ELEVATION: 5243 MAP ID: 123

NAME: ALERT POLISHING AND PLATING
ADDRESS: 345 SANTA FE DR
DENVER CO 80223
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COR000016204
ID2:
STATUS: CA
PHONE:

SITE INFORMATION

CONTACT INFORMATION: CHRIS A WILLBANKS
SANTA FE DR
DENVER CO 80223

PHONE: 3038253561

OWNER NAME:ROY WILLBANKS
OWNER TYPE:P-PRIVATE
OPERATOR:ALERT POLISHING AND PLATING
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:345 SANTA FE DR
DENVER, CO 80
UNIVERSE INFORMATION:

RECEIVED DATE:11/02/2010

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:N-NOGW CONTROLS:N- NO
LAND TYPE:P-PRIVATE
SHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 20 **DIST/DIR:** 0.58 SE **ELEVATION:** 5243 **MAP ID:** 123

NAME: ALERT POLISHING AND PLATING
ADDRESS: 345 SANTA FE DR
DENVER CO 80223
DENVER

REV: 1/10/12
ID1: COR000016204
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 07/23/2007
TYPE: COMPLIANCE ADVISORY

AGENCY: STATEDATE: 07/17/2007
TYPE: FINAL 3008(A) COMPLIANCE ORDER

VIOLATION INFORMATION:

VIOLATION NUMBER: 1RESPONSIBLE: S - STATE
DETERMINED: 07/23/2007DETERMINED BY: S - STATE
CITATION: RESOLVED: 07/17/2007
TYPE: GENERATORS - GENERAL

CORRECTIVE ACTION INFORMATION

CA EVENT:07/14/2007 CA150 - RFI WORKPLAN APPROVED

CA EVENT:07/10/2007 CA070YE - DETERMINATION OF NEED FOR AN RFI - RFI IS NECESSARY

CA EVENT:07/10/2007 CA100 - RFI IMPOSITION

CA EVENT:07/07/2007 CA110 - RFI WORKPLAN RECEIVED

CA EVENT:07/05/2007 CA110 - RFI WORKPLAN RECEIVED

CA EVENT:07/10/2007 CA075LO - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A LOW CORRECTIVE ACTION PRIORITY

CA EVENT:07/03/2007 CA150 - RFI WORKPLAN APPROVED

CA EVENT:08/20/2008 CA190 - RFI REPORT RECEIVED

CA EVENT:08/21/2008 CA200 - RFI APPROVED

CA EVENT:08/21/2008 CA370 - PETITION FOR NO FURTHER ACTION RECEIPT DATE

CA EVENT:08/21/2008 CA375 - DECISION ON PETITION FOR NO FURTHER ACTION

CA EVENT:08/21/2008 CA550NR - REMEDY CONSTRUCTION - NO REMEDY CONSTRUCTED

CA EVENT:08/21/2008 CA999NF - CORRECTIVE ACTION PROCESS TERMINATED - NO FURTHER ACTION

HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 4 **DIST/DIR:** 0.61 SE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE 97	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955N
	DENVER CO 80204	ID2:	0800247N
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

- five-year reviewEPA Fund-Financed04-15-200809-30-2008
- risk/health assessmentEPA Fund-Financed04-12-200510-13-2005
- prospective purchaser agreement assessmentFederal Enforcement11-26-200206-03-2005
- forward planning activity/management assistanceEPA Fund-Financed09-15-200009-27-2000
- preparation of cost document packageFederal Enforcement09-02-200010-19-2001
- remedial design/remedial action negotiationsFederal Enforcement06-15-200010-10-2001
- issue request letters (104e)Federal Enforcement03-28-200003-28-2000
- national priorities list responsible party searchFederal Enforcement03-02-200003-28-2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 4 **DIST/DIR:** 0.61 SE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE 97	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955N
	DENVER CO 80204	ID2:	0800247N
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

combined remedial investigation/feasibility studyEPA Fund-Financed11-15-199906-16-2000

five-year reviewEPA Fund-Financed06-10-199912-21-1999
Primary

preparation of cost document packageFederal Enforcement10-21-199812-15-1998

five-year reviewEPA Fund-Financed01-15-199809-30-2003
Primary

national priorities list responsible party searchFederal Enforcement03-08-199503-30-1995
Primary

preparation of cost document packageFederal Enforcement02-26-199407-11-1994
Primary

preparation of cost document packageFederal Enforcement12-31-199302-25-1994
Primary

potentially responsible party removalResponsible Party06-29-199308-27-1993
Cleaned upPrimary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed06-01-199309-30-1993
Primary

five-year reviewEPA Fund-Financed04-05-199309-12-1994
Primary

potentially responsible party remedial actionResponsible Party03-31-199306-16-2000
PrimaryOther Completion Anomaly

potentially responsible party remedial actionResponsible Party10-26-199206-29-1994
Higher priority for further assessmentPrimary

potentially responsible party remedial designResponsible Party06-07-199203-31-1993
Alternate

potentially responsible party remedial designResponsible Party06-07-199206-27-1996
Primary

remedial design/remedial action negotiationsFederal Enforcement01-28-199208-21-1992
Primary

preparation of cost document packageFederal Enforcement12-30-199102-11-1994
Primary

state support agency cooperative agreementState, Fund Financed07-25-199109-25-2000
Primary

national priorities list responsible party searchFederal Enforcement06-26-199107-17-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-26-199109-09-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement06-11-199108-08-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement05-24-199105-24-1991

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 4 **DIST/DIR:** 0.61 SE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE 97	REV:	10/08/08
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955N
	DENVER CO 80204	ID2:	0800247N
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

Primary

national priorities list responsible party searchFederal Enforcement01-09-199106-21-1991
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement01-09-199105-29-1992
Search Complete, Viable PRPs

state support agency cooperative agreementFederal Enforcement08-06-199009-29-1992
Primary

national priorities list responsible party searchFederal Enforcement07-01-198809-12-1988
Search Complete, Viable PRPs

state support agency cooperative agreementState, Fund Financed02-12-198807-20-1989
Primary

potentially responsible party remedial designResponsible Party12-11-198703-01-1990
Primary

remedial investigation/feasibility study negotiationsFederal Enforcement08-03-198703-31-1988
Alternate

national priorities list responsible party searchFederal Enforcement07-22-198708-25-1987
Search Complete, Viable PRPs

remedial investigation/feasibility study workplan approval by hqFederal Enforcement04-30-198706-29-1987
Primary

national priorities list responsible party searchFederal Enforcement03-24-198706-02-1987
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement09-12-198603-01-1990
Primary

national priorities list responsible party searchFederal Enforcement05-08-198601-16-1987

state support agency cooperative agreementState, Fund Financed04-10-198604-11-1991
Primary

national priorities list responsible party searchFederal Enforcement01-16-198505-08-1986
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement01-16-198501-16-1987
Search Complete, Viable PRPs

national priorities list responsible party searchFederal Enforcement11-26-198401-16-1985
Search Complete, Viable PRPs

remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed01-03-198401-03-1984
Primary

state support agency cooperative agreementState, Fund Financed08-19-198311-14-2000
Primary

remedial investigation/feasibility study workplan approval by hqState, Fund Financed12-31-198112-31-1981
Primary

notice letters issuedFederal Enforcement08-10-1982

notice letters issuedEPA Fund-Financed08-10-1982

hazard ranking system packageEPA Fund-Financed12-01-1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 5 **DIST/DIR:** 0.64 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 10	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER	ID1:	COD9807169551
CONTACT:	JACK WHYTE	ID2:	0800247
SOURCE:	EPA	STATUS:	FINAL
		PHONE:	3033126707

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALLY DELETED DATE: 11/08/2010
FINAL DATE: 9/27/2006

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

five-year reviewEPA Fund-Financed4/15/20089/30/2008

risk/health assessmentEPA Fund-Financed4/12/200510/13/2005

prospective purchaser agreement assessmentFederal Enforcement11/26/20026/3/2005

forward planning activity/management assistanceEPA Fund-Financed9/15/20009/27/2000

preparation of cost document packageFederal Enforcement9/2/200010/19/2001

remedial design/remedial action negotiationsFederal Enforcement6/15/200010/10/2001

issue request letters (104e)Federal Enforcement3/28/20003/28/2000

national priorities list responsible party searchFederal Enforcement3/2/20003/28/2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 5 **DIST/DIR:** 0.64 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 10	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955I
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- preparation of cost document packageFederal Enforcement11/29/19991/25/2000
- combined remedial investigation/feasibility studyEPA Fund-Financed11/15/19996/16/2000
- five-year reviewEPA Fund-Financed6/10/199912/21/1999
Primary
- preparation of cost document packageFederal Enforcement10/21/199812/15/1998
- five-year reviewEPA Fund-Financed1/15/19989/30/2003
Primary
- national priorities list responsible party searchFederal Enforcement3/8/19953/30/1995
Primary
- preparation of cost document packageFederal Enforcement2/26/19947/11/1994
Primary
- preparation of cost document packageFederal Enforcement12/31/19932/25/1994
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed4/5/19939/12/1994
Primary
- potentially responsible party remedial actionResponsible Party3/31/19936/16/2000
PrimaryOther Completion Anomaly
- potentially responsible party remedial actionResponsible Party10/26/19926/29/1994
Higher priority for further assessmentPrimary
- potentially responsible party remedial designResponsible Party6/7/19923/31/1993
Alternate
- potentially responsible party remedial designResponsible Party6/7/19926/27/1996
Primary
- remedial design/remedial action negotiationsFederal Enforcement1/28/19928/21/1992
Primary
- preparation of cost document packageFederal Enforcement12/30/19912/11/1994
Primary
- state support agency cooperative agreement State, Fund Financed 7/25/19919/25/2000
Primary
- national priorities list responsible party searchFederal Enforcement6/26/19917/17/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/26/19919/9/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/11/19918/8/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement5/24/19915/24/1991
- preparation of cost document packageFederal Enforcement3/30/19919/30/1991
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 5 **DIST/DIR:** 0.64 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 10	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955I
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- national priorities list responsible party searchFederal Enforcement1/9/19916/21/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/9/19915/29/1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement8/6/19909/29/1992
Primary
- national priorities list responsible party searchFederal Enforcement7/1/19889/12/1988
Search Complete, Viable PRPs
- state support agency cooperative agreement State, Fund Financed 2/12/19887/20/1989
Primary
- potentially responsible party remedial designResponsible Party12/11/19873/1/1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement8/3/19873/31/1988
Alternate
- national priorities list responsible party searchFederal Enforcement7/22/19878/25/1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement4/30/19876/29/1987
Primary
- national priorities list responsible party searchFederal Enforcement3/24/19876/2/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement9/12/19863/1/1990
Primary
- national priorities list responsible party searchFederal Enforcement5/8/19861/16/1987
- state support agency cooperative agreement State, Fund Financed 4/10/19864/11/1991
Primary
- national priorities list responsible party searchFederal Enforcement1/16/19855/8/1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/16/19851/16/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11/26/19841/16/1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed1/3/19841/3/1984
Primary
- state support agency cooperative agreement State, Fund Financed 8/19/198311/14/2000
Primary
- remedial investigation/feasibility study workplan approval by hq State, Fund Financed 12/31/198112/31/1981
Primary
- notice letters issuedFederal Enforcement8/10/1982
- notice letters issuedEPA Fund-Financed8/10/1982
- hazard ranking system packageEPA Fund-Financed12/1/1982
- proposal to national priorities listEPA Fund-Financed12/30/1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 6 **DIST/DIR:** 0.72 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 7B	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER	ID1:	COD980716955E
CONTACT:	JACK WHYTE	ID2:	0800247
SOURCE:	EPA	STATUS:	FINAL
		PHONE:	3033126707

SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALLY DELETED DATE: 11/08/2010

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

FINAL DATE: 9/27/2006

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

five-year reviewEPA Fund-Financed4/15/20089/30/2008

risk/health assessmentEPA Fund-Financed4/12/200510/13/2005

prospective purchaser agreement assessmentFederal Enforcement11/26/20026/3/2005

forward planning activity/management assistanceEPA Fund-Financed9/15/20009/27/2000

preparation of cost document packageFederal Enforcement9/2/200010/19/2001

remedial design/remedial action negotiationsFederal Enforcement6/15/200010/10/2001

issue request letters (104e)Federal Enforcement3/28/20003/28/2000

national priorities list responsible party searchFederal Enforcement3/2/20003/28/2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 6 **DIST/DIR:** 0.72 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 7B	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955E
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- preparation of cost document packageFederal Enforcement11/29/19991/25/2000
- combined remedial investigation/feasibility studyEPA Fund-Financed11/15/19996/16/2000
- five-year reviewEPA Fund-Financed6/10/199912/21/1999
Primary
- preparation of cost document packageFederal Enforcement10/21/199812/15/1998
- five-year reviewEPA Fund-Financed1/15/19989/30/2003
Primary
- national priorities list responsible party searchFederal Enforcement3/8/19953/30/1995
Primary
- preparation of cost document packageFederal Enforcement2/26/19947/11/1994
Primary
- preparation of cost document packageFederal Enforcement12/31/19932/25/1994
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed4/5/19939/12/1994
Primary
- potentially responsible party remedial actionResponsible Party3/31/19936/16/2000
PrimaryOther Completion Anomaly
- potentially responsible party remedial actionResponsible Party10/26/19926/29/1994
Higher priority for further assessmentPrimary
- potentially responsible party remedial designResponsible Party6/7/19923/31/1993
Alternate
- potentially responsible party remedial designResponsible Party6/7/19926/27/1996
Primary
- remedial design/remedial action negotiationsFederal Enforcement1/28/19928/21/1992
Primary
- preparation of cost document packageFederal Enforcement12/30/19912/11/1994
Primary
- state support agency cooperative agreement State, Fund Financed 7/25/19919/25/2000
Primary
- national priorities list responsible party searchFederal Enforcement6/26/19917/17/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/26/19919/9/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/11/19918/8/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement5/24/19915/24/1991
- preparation of cost document packageFederal Enforcement3/30/19919/30/1991
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 6 **DIST/DIR:** 0.72 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 7B	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955E
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- national priorities list responsible party searchFederal Enforcement1/9/19916/21/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/9/19915/29/1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement8/6/19909/29/1992
Primary
- national priorities list responsible party searchFederal Enforcement7/1/19889/12/1988
Search Complete, Viable PRPs
- state support agency cooperative agreement State, Fund Financed 2/12/19887/20/1989
Primary
- potentially responsible party remedial designResponsible Party12/11/19873/1/1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement8/3/19873/31/1988
Alternate
- national priorities list responsible party searchFederal Enforcement7/22/19878/25/1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement4/30/19876/29/1987
Primary
- national priorities list responsible party searchFederal Enforcement3/24/19876/2/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement9/12/19863/1/1990
Primary
- national priorities list responsible party searchFederal Enforcement5/8/19861/16/1987
- state support agency cooperative agreement State, Fund Financed 4/10/19864/11/1991
Primary
- national priorities list responsible party searchFederal Enforcement1/16/19855/8/1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/16/19851/16/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11/26/19841/16/1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed1/3/19841/3/1984
Primary
- state support agency cooperative agreement State, Fund Financed 8/19/198311/14/2000
Primary
- remedial investigation/feasibility study workplan approval by hq State, Fund Financed 12/31/198112/31/1981
Primary
- notice letters issuedEPA Fund-Financed8/10/1982
- notice letters issuedFederal Enforcement8/10/1982
- hazard ranking system packageEPA Fund-Financed12/1/1982
- proposal to national priorities listEPA Fund-Financed12/30/1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 7 DIST/DIR: 0.65 NE ELEVATION: MAP ID: 124

NAME: DENVER RADIUM SITE-OU 7C
ADDRESS: VARIOUS PLACES IN DENVER
DENVER CO 80204
DENVER
CONTACT: JACK WHYTE
SOURCE: EPA
REV: 2/1/12
ID1: COD980716955F
ID2: 0800247
STATUS: FINAL
PHONE: 3033126707

SITE INFORMATION

EVENT TYPE
SITE DISCOVERY BY: EPADISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPAPROPOSED DATE: 10-23-81
FINAL LIST BY: EPAFINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALY DELETED DATE: 11/08/2010

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

FINAL DATE: 9/27/2006

CERCLIS DETAILS

ACTION/QUALITY AGENCY/RPS START/RAA END

five-year reviewEPA Fund-Financed4/15/20089/30/2008

risk/health assessmentEPA Fund-Financed4/12/200510/13/2005

prospective purchaser agreement assessmentFederal Enforcement11/26/20026/3/2005

forward planning activity/management assistanceEPA Fund-Financed9/15/20009/27/2000

preparation of cost document packageFederal Enforcement9/2/200010/19/2001

remedial design/remedial action negotiationsFederal Enforcement6/15/200010/10/2001

issue request letters (104e)Federal Enforcement3/28/20003/28/2000

national priorities list responsible party searchFederal Enforcement3/2/20003/28/2000
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 7 **DIST/DIR:** 0.65 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 7C	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955F
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- preparation of cost document packageFederal Enforcement11/29/19991/25/2000
- combined remedial investigation/feasibility studyEPA Fund-Financed11/15/19996/16/2000
- five-year reviewEPA Fund-Financed6/10/199912/21/1999
Primary
- preparation of cost document packageFederal Enforcement10/21/199812/15/1998
- five-year reviewEPA Fund-Financed1/15/19989/30/2003
Primary
- national priorities list responsible party searchFederal Enforcement3/8/19953/30/1995
Primary
- preparation of cost document packageFederal Enforcement2/26/19947/11/1994
Primary
- preparation of cost document packageFederal Enforcement12/31/19932/25/1994
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed6/1/19939/30/1993
Primary
- five-year reviewEPA Fund-Financed4/5/19939/12/1994
Primary
- potentially responsible party remedial actionResponsible Party3/31/19936/16/2000
PrimaryOther Completion Anomaly
- potentially responsible party remedial actionResponsible Party10/26/19926/29/1994
Higher priority for further assessmentPrimary
- potentially responsible party remedial designResponsible Party6/7/19923/31/1993
Alternate
- potentially responsible party remedial designResponsible Party6/7/19926/27/1996
Primary
- remedial design/remedial action negotiationsFederal Enforcement1/28/19928/21/1992
Primary
- preparation of cost document packageFederal Enforcement12/30/19912/11/1994
Primary
- state support agency cooperative agreement State, Fund Financed 7/25/19919/25/2000
Primary
- national priorities list responsible party searchFederal Enforcement6/26/19917/17/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/26/19919/9/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement6/11/19918/8/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement5/24/19915/24/1991
- preparation of cost document packageFederal Enforcement3/30/19919/30/1991
Primary

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

NPL

SEARCH ID: 7 **DIST/DIR:** 0.65 NE **ELEVATION:** **MAP ID:** 124

NAME:	DENVER RADIUM SITE-OU 7C	REV:	2/1/12
ADDRESS:	VARIOUS PLACES IN DENVER	ID1:	COD980716955F
	DENVER CO 80204	ID2:	0800247
	DENVER	STATUS:	FINAL
CONTACT:	JACK WHYTE	PHONE:	3033126707
SOURCE:	EPA		

- national priorities list responsible party searchFederal Enforcement1/9/19916/21/1991
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/9/19915/29/1992
Search Complete, Viable PRPs
- state support agency cooperative agreementFederal Enforcement8/6/19909/29/1992
Primary
- national priorities list responsible party searchFederal Enforcement7/1/19889/12/1988
Search Complete, Viable PRPs
- state support agency cooperative agreement State, Fund Financed 2/12/19887/20/1989
Primary
- potentially responsible party remedial designResponsible Party12/11/19873/1/1990
Primary
- remedial investigation/feasibility study negotiationsFederal Enforcement8/3/19873/31/1988
Alternate
- national priorities list responsible party searchFederal Enforcement7/22/19878/25/1987
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqFederal Enforcement4/30/19876/29/1987
Primary
- national priorities list responsible party searchFederal Enforcement3/24/19876/2/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement9/12/19863/1/1990
Primary
- national priorities list responsible party searchFederal Enforcement5/8/19861/16/1987
- state support agency cooperative agreement State, Fund Financed 4/10/19864/11/1991
Primary
- national priorities list responsible party searchFederal Enforcement1/16/19855/8/1986
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement1/16/19851/16/1987
Search Complete, Viable PRPs
- national priorities list responsible party searchFederal Enforcement11/26/19841/16/1985
Search Complete, Viable PRPs
- remedial investigation/feasibility study workplan approval by hqEPA Fund-Financed1/3/19841/3/1984
Primary
- state support agency cooperative agreement State, Fund Financed 8/19/198311/14/2000
Primary
- remedial investigation/feasibility study workplan approval by hq State, Fund Financed 12/31/198112/31/1981
Primary
- notice letters issuedEPA Fund-Financed8/10/1982
- notice letters issuedFederal Enforcement8/10/1982
- hazard ranking system packageEPA Fund-Financed12/1/1982
- proposal to national priorities listEPA Fund-Financed12/30/1982

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 19 DIST/DIR: 0.75 SE ELEVATION: 5210 MAP ID: 125

NAME: SAFETY-KLEEN SYSTEMS INC
ADDRESS: 1345 W BAYAUD AVE
DENVER CO 80223
DENVER
CONTACT: REV: 1/10/12
SOURCE: EPA ID1: COD980954101
ID2:
STATUS: CA
PHONE:

SITE INFORMATION

CONTACT INFORMATION: SCOTT DAVIS
8795 FOLSOM BLVD., SUITE 108
SACRAMENTO CA 95826

PHONE: 9163876063

OWNER NAME:DIRT MAGNET,INC.
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS:6000 88TH ST
SACRAMENTO, CA 95826

UNIVERSE INFORMATION:

RECEIVED DATE:09/10/2001

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:--ST
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:+GW CONTROLS:+
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:Y

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:Y - YESUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 19 **DIST/DIR:** 0.75 SE **ELEVATION:** 5210 **MAP ID:** 125

NAME:	SAFETY-KLEEN SYSTEMS INC	REV:	1/10/12
ADDRESS:	1345 W BAYAUD AVE	ID1:	COD980954101
	DENVER CO 80223	ID2:	
	DENVER	STATUS:	CA
CONTACT:		PHONE:	
SOURCE:	EPA		

- ALL OTHER BUSINESS SUPPORT SERVICES
333319 - OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING
44131 - AUTOMOTIVE PARTS AND ACCESSORIES STORES

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 88/24/1988
TYPE: WRITTEN INFORMAL

AGENCY: STATEDATE: 89/06/1989
TYPE: INITIAL 3008(A) COMPLIANCE

AGENCY: STATEDATE: 89/27/1989
TYPE: FINAL 3008(A) COMPLIANCE ORDER

AGENCY: STATEDATE: 91/08/1991
TYPE: WRITTEN INFORMAL

AGENCY: STATEDATE: 95/29/1995
TYPE: NOTICE OF VIOLATION

AGENCY: STATEDATE: 96/18/1996
TYPE: FINAL 3008(A) COMPLIANCE ORDER

AGENCY: STATEDATE: 97/14/1997
TYPE: V3 Conversion Compliance Advisory

VIOLATION INFORMATION:

VIOLATION NUMBER: 1 RESPONSIBLE: S - STATE
DETERMINED: 88/24/1988 DETERMINED BY: S - STATE
CITATION: RESOLVED: 88/09/1988
TYPE: TSD - GENERAL

VIOLATION NUMBER: 2 RESPONSIBLE: S - STATE
DETERMINED: 88/06/1988 DETERMINED BY: S - STATE
CITATION: RESOLVED: 89/27/1989
TYPE: TSD - GENERAL

VIOLATION NUMBER: 3 RESPONSIBLE: S - STATE
DETERMINED: 88/04/1988 DETERMINED BY: S - STATE
CITATION: RESOLVED: 89/07/1989
TYPE: TSD - FINANCIAL REQUIREMENTS

VIOLATION NUMBER: 4 RESPONSIBLE: S - STATE
DETERMINED: 91/22/1991 DETERMINED BY: S - STATE
CITATION: RESOLVED: 91/26/1991
TYPE: TSD - FINANCIAL REQUIREMENTS

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 19 DIST/DIR: 0.75 SE ELEVATION: 5210 MAP ID: 125

NAME: SAFETY-KLEEN SYSTEMS INC
ADDRESS: 1345 W BAYAUD AVE
DENVER CO 80223
DENVER

CONTACT:

SOURCE: EPA

REV: 1/10/12
ID1: COD980954101
ID2:
STATUS: CA
PHONE:

VIOLATION NUMBER: 5 RESPONSIBLE: S - STATE
DETERMINED: 95/11/1995 DETERMINED BY: S - STATE
CITATION: RESOLVED: 96/16/1996
TYPE: TSD - FINANCIAL REQUIREMENTS

VIOLATION NUMBER: 6 RESPONSIBLE: S - STATE
DETERMINED: 94/02/1994 DETERMINED BY: S - STATE
CITATION: RESOLVED: 96/14/1996
TYPE: TSD - FINANCIAL REQUIREMENTS

VIOLATION NUMBER: 7 RESPONSIBLE: S - STATE
DETERMINED: 94/02/1994 DETERMINED BY: S - STATE
CITATION: RESOLVED: 96/14/1996
TYPE: TSD - FINANCIAL REQUIREMENTS

VIOLATION NUMBER: 8 RESPONSIBLE: S - STATE
DETERMINED: 97/13/1997 DETERMINED BY: S - STATE
CITATION: RESOLVED: 97/19/1997
TYPE: TSD - FINANCIAL REQUIREMENTS

CORRECTIVE ACTION INFORMATION

CA EVENT: 89/06/1989 CA055

CA EVENT: 89/06/1989 CA070YE - DETERMINATION OF NEED FOR AN RFI - RFI IS NECESSARY

CA EVENT: 91/17/1991 CA006AC

CA EVENT: 91/17/1991 CA100 - RFI IMPOSITION

CA EVENT: 91/03/1991 CA180 - RFI IMPLEMENTATION BEGUN

CA EVENT: 91/17/1991 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 92/09/1992 CA195 - RFI PROGRESS REPORTS RECEIVED

CA EVENT: 92/03/1992 CA260 - CMS WORKPLAN RECEIVED

CA EVENT: 92/09/1992 CA060 - NOTICE OF CONTAMINATION

CA EVENT: 93/06/1993 CA330 - CMS IMPLEMENTATION BEGUN

CA EVENT: 93/08/1993 CA195 - RFI PROGRESS REPORTS RECEIVED

CA EVENT: 93/17/1993 CA300 - CMS WORKPLAN APPROVED

CA EVENT: 94/04/1994 CA340 - CMS REPORT RECEIVED

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 18 **DIST/DIR:** 0.79 SE **ELEVATION:** 5212 **MAP ID:** 126

NAME:	MALLOW PLATING WORKS INC	REV:	1/10/12
ADDRESS:	118 S PECOS ST DENVER CO 80223 DENVER	ID1:	COD007076813
CONTACT:		ID2:	
SOURCE:	EPA	STATUS:	CA
		PHONE:	

SITE INFORMATION

CONTACT INFORMATION: MERLE KORTE
118 S PECOS ST
DENVER CO 80223

PHONE: 3037780444

OWNER NAME:MALLOW PLATING WORKS INC
OWNER TYPE:P-PRIVATE
OPERATOR:MALLOW PLATING WORKS INC
OPERATOR_TYPE:P-PRIVATE
MAILING ADDRESS:118 S PECOS ST
DENVER,
UNIVERSE INFORMATION:

RECEIVED DATE:08/28/1980

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:+GW CONTROLS:+
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 18 **DIST/DIR:** 0.79 SE **ELEVATION:** 5212 **MAP ID:** 126

NAME:	MALLOW PLATING WORKS INC	REV:	1/10/12
ADDRESS:	118 S PECOS ST	ID1:	COD007076813
	DENVER CO 80223	ID2:	
	DENVER	STATUS:	CA
CONTACT:		PHONE:	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 92/20/1992
TYPE: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY

VIOLATION INFORMATION:

VIOLATION NUMBER: 1RESPONSIBLE: S - STATE
DETERMINED: 92/24/1992DETERMINED BY: S - STATE
CITATION: RESOLVED: 94/22/1994
TYPE: GENERATORS - GENERAL

CORRECTIVE ACTION INFORMATION

CA EVENT:92/14/1992 CA300 - CMS WORKPLAN APPROVED
CA EVENT:92/14/1992 CA500 - CMI WORKPLAN APPROVED
CA EVENT:92/01/1992 CA600SR - STABILIZATION MEASURES IMPLEMENTED - SOURCE REMOVAL AND/OR TREATMENT
CA EVENT:92/21/1992 CA180 - RFI IMPLEMENTATION BEGUN
CA EVENT:92/14/1992 CA150 - RFI WORKPLAN APPROVED
CA EVENT:92/24/1992 CA110 - RFI WORKPLAN RECEIVED
CA EVENT:92/20/1992 CA100 - RFI IMPOSITION
CA EVENT:92/14/1992 CA400 - CA400-REMEDY DECISION
CA EVENT:92/20/1992 CA250 - CMS IMPOSITION
CA EVENT:93/01/1993 CA190 - RFI REPORT RECEIVED
CA EVENT:94/30/1994 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:94/15/1994 CA195 - RFI PROGRESS REPORTS RECEIVED
CA EVENT:94/25/1994 CA999 - CORRECTIVE ACTION PROCESS TERMINATED
CA EVENT:95/20/1995 CA006AC
CA EVENT:95/01/1995 CA225YE - STABILIZATION MEASURES EVALUATION - FACILITY IS AMENABLE TO STABILIZATION ACTIVITY
CA EVENT:95/11/1995 CA075LO - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A LOW CORRECTIVE ACTION PRIORITY
CA EVENT:95/01/1995 CA725YE - CURRENT HUMAN EXPOSURES UNDER CONTROL - UNDER CONTROL

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 18 **DIST/DIR:** 0.79 SE **ELEVATION:** 5212 **MAP ID:** 126

NAME: MALLOW PLATING WORKS INC
ADDRESS: 118 S PECOS ST
DENVER CO 80223
DENVER

REV: 1/10/12
ID1: COD007076813
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT:95/01/1995 CA750YE - GROUNDWATER RELEASES CONTROLLED DETERMINATION - MIGRATION OF CONTAMINATED GW IS UNDER CONTROL

HAZARDOUS WASTE INFORMATION:

F006 - Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.

F007 - Spent cyanide plating bath solutions from electroplating operations.

F008 - Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 21 DIST/DIR: 0.90 SE ELEVATION: 5239 MAP ID: 127

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 W BAYAUD AVE
DENVER CO 80223
DENVER
CONTACT: SOURCE: EPA
REV: 1/10/12
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

SITE INFORMATION

CONTACT INFORMATION: MINDY TRAUTMAN
P O BOX 840 SSP 2000 ENV SVCS
DENVER CO 80201

PHONE: 3032948926

OWNER NAME:PUBLIC SERVICE CO OF COLORADO
OWNER TYPE:P-PRIVATE
OPERATOR:
OPERATOR_TYPE:
MAILING ADDRESS: P O BOX 840 SSP 2000 ENV SVCS
DENVER, CO 80201
UNIVERSE INFORMATION:

RECEIVED DATE:08/03/2004

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:N - NO
SUBJCA TSD 3004:N - NO
SUBJCA NON TSD:Y - NON TSDFS WHERE CORRECTIVE ACTION HAS BEEN IMPOSED
SIGNIFICANT NON-COMPLIANCE(SNC):N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD:-----
CLOSURE WORKLOAD:-----
POST CLOSURE WORKLOAD:-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:-----
CORRECTIVE ACTION WORKLOAD:N - NO
GENERATOR STATUS:N

INSTITUTIONAL CONTROL:N-NOENGINEERING CONTROL:N
HUMAN EXPOSURE:+GW CONTROLS:+
LAND TYPE:O-OTHERSHORT TERM GEN:N
TRANS FACILITY:NREC WASTE FROM OFF SITE:N

IMPORTER ACTIVITY:N - NOMIXED WASTE GEN:N - NO
TRANS ACTIVITY:N - NOTSD ACTIVITY:N - NO
RECYCLER ACTIVITY:N - NOONSITE BURNER EXEMPT:N - NO
FURNACE EXEMPTION:N - NOUNDER INJECT ACTIVITY:N - NO
REC WASTE FROM OFF SITE:N - NOUNIV WASTE DEST FAC:N
USED OIL TRANS:N - NOUSED OIL PROCESSOR:N - NO
USED OIL REFINER:N - NOUSED OIL FUEL BURNER:N - NO
UO FUEL MARKETER TO BURNER:NUSED OIL SPEC MARKETER:N - NO

NAIC INFORMATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 21 **DIST/DIR:** 0.90 SE **ELEVATION:** 5239 **MAP ID:** 127

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 W BAYAUD AVE
DENVER CO 80223
DENVER

REV: 1/10/12
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

ENFORCEMENT INFORMATION:

AGENCY: STATEDATE: 93/24/1993
TYPE: FINAL 3008(H) I.S. CA ORDER

AGENCY: STATEDATE: 96/30/1996
TYPE: WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 1RESPONSIBLE: S - STATE
DETERMINED: 93/26/1993DETERMINED BY: S - STATE
CITATION: RESOLVED: 93/24/1993
TYPE: GENERATORS - GENERAL

VIOLATION NUMBER: 2RESPONSIBLE: S - STATE
DETERMINED: 96/01/1996DETERMINED BY: S - STATE
CITATION: RESOLVED: 96/20/1996
TYPE: GENERATORS - GENERAL

CORRECTIVE ACTION INFORMATION

CA EVENT:92/01/1992 CA600SR - STABILIZATION MEASURES IMPLEMENTED - SOURCE REMOVAL AND/OR TREATMENT

CA EVENT:93/05/1993 CA100 - RFI IMPOSITION

CA EVENT:93/19/1993 CA110 - RFI WORKPLAN RECEIVED

CA EVENT:93/24/1993 CA250 - CMS IMPOSITION

CA EVENT:93/05/1993 CA120 - RFI WORKPLAN MODIFICATION REQUESTED BY AGENCY

CA EVENT:93/01/1993 CA150 - RFI WORKPLAN APPROVED

CA EVENT:93/01/1993 CA180 - RFI IMPLEMENTATION BEGUN

CA EVENT:93/11/1993 CA110 - RFI WORKPLAN RECEIVED

CA EVENT:93/11/1993 CA006AC

CA EVENT:93/11/1993 CA070

CA EVENT:93/11/1993 CA060 - NOTICE OF CONTAMINATION

CA EVENT:94/26/1994 CA260 - CMS WORKPLAN RECEIVED

CA EVENT:94/02/1994 CA500 - CMI WORKPLAN APPROVED

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

RCRACOR

SEARCH ID: 21 **DIST/DIR:** 0.90 SE **ELEVATION:** 5239 **MAP ID:** 127

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 W BAYAUD AVE
DENVER CO 80223
DENVER

REV: 1/10/12
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT:94/02/1994 CA450 - CORRECTIVE MEASURES DESIGN APPROVED
CA EVENT:94/02/1994 CA400 - CA400-REMEDY DECISION
CA EVENT:94/02/1994 CA300 - CMS WORKPLAN APPROVED
CA EVENT:95/22/1995 CA190 - RFI REPORT RECEIVED
CA EVENT:95/28/1995 CA190 - RFI REPORT RECEIVED
CA EVENT:95/11/1995 CA075LO - CA PRIORITIZATION - FACILITY OR AREA WAS ASSIGNED A LOW CORRECTIVE ACTION PRIORITY
CA EVENT:95/01/1995 CA190 - RFI REPORT RECEIVED
CA EVENT:95/11/1995 CA999 - CORRECTIVE ACTION PROCESS TERMINATED
CA EVENT:95/17/1995 CA999 - CORRECTIVE ACTION PROCESS TERMINATED
CA EVENT:95/01/1995 CA725YE - CURRENT HUMAN EXPOSURES UNDER CONTROL - UNDER CONTROL
CA EVENT:95/11/1995 CA999 - CORRECTIVE ACTION PROCESS TERMINATED
CA EVENT:95/12/1995 CA999 - CORRECTIVE ACTION PROCESS TERMINATED
CA EVENT:95/01/1995 CA225YE - STABILIZATION MEASURES EVALUATION - FACILITY IS AMENABLE TO STABILIZATION ACTIVITY
CA EVENT:95/01/1995 CA750YE - GROUNDWATER RELEASES CONTROLLED DETERMINATION - MIGRATION OF CONTAMINATED GW IS UNDER CONTROL
CA EVENT:01/20/2001 CA841TS
CA EVENT:01/06/2001 CA510 - DETERMINATION OF TECHNICAL IMPRACTICABILITY
HAZARDOUS WASTE INFORMATION:

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money. A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. FINAL - Currently on the Final NPL PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. 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. DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. PART OF NPL- Site is part of NPL site DELETED - Deleted from the Final NPL FINAL - Currently on the Final NPL NOT PROPOSED - Not on the NPL NOT VALID - Not Valid Site or Incident PROPOSED - Proposed for NPL REMOVED - Removed from Proposed NPL SCAN PLAN - Pre-proposal Site WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). 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. NFRAP - No Further Remedial Action Plan P - Site is part of NPL site D - Deleted from the Final NPL F - Currently on the Final NPL N - Not on the NPL O - Not Valid Site or Incident P - Proposed for NPL R - Removed from Proposed NPL S - Pre-proposal Site W - Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM

GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that generate or transport hazardous waste or meet other RCRA requirements. LGN - Large Quantity Generators SGN - Small Quantity Generators VGN - Conditionally Exempt Generator. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities. CONNECTICUT HAZARDOUS WASTE MANIFEST - Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records. MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP. VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil. SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil. LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification: Failure to report in a timely matter. No longer in business. No longer in business at the listed address. No longer generating hazardous waste materials in quantities which require reporting.

Fed Brownfield: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs. CLEANUPS IN MY COMMUNITY (subset) - Sites, facilities and properties that have been contaminated by hazardous materials and are being, or have been, cleaned up under EPA's brownfield's program.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation. BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: CDPHE CO SPL - Colorado does not have an official State Priority List (SPL). However, there are a number of sites that the state seems to place in this sort of category. Some are officially a Natural Resource Damages Site (NRDS) or Private Cleanup Site (Non-Superfund), but they're listed on the state's web page of Superfund sites (www.cdphe.state.co.us/hm/sf_sites.htm). Others are UMTRA (Uranium Mill Tailing Remedial Action) mill tailing cleanup

sites (www.cdphe.state.co.us/hm/umsites.htm). Thousands of UMTRA "vicinity properties" have also been identified where mill tailings were used as sand in concrete, roadbase, trenches, bricks, etc. Such properties have been remediated in Durango, Grand Junction, Fruita, Palisade, Gunnison, Maybell, Naturita and Rifle, but some unidentified tailings may still remain in and around these communities. CDPHE's list of vicinity properties is not publicly available and was not searched for this report. Property-specific information is available through the CDPHE Grand Junction office. See www.cdphe.state.co.us/hm/rptailing.htm.

State Spills 90: CDPHE ENVIRONMENTAL RELEASE AND INCIDENT DATABASE - This is a database of reported spills in Colorado.

State/Tribal SWL: CDPHE DATABASE OF ACTIVE SOLID WASTE MANAGEMENT FACILITIES - Listing of Active solid waste facilities and transfer stations. DATABASE OF ACTIVE SOLID WASTE MANAGEMENT FACILITIES - Listing of Active solid waste facilities and transfer stations. CO Historic Landfills - This proprietary database represents a compilation of eleven local, regional and state agency sources. The agencies generated these lists on a one-time basis and do not expect to update them. A more detailed description of the applicable source is included with any findings reported from this database. The eleven sources are: 1. Adams County CO Old Landfills 2. Arapahoe County CO Old Landfills 3. Douglas County CO Old Landfills. Weld County CO Old Landfills 5. Boulder County CO Old Landfills 6. Jefferson County CO Old Landfills 7. Denver CO Methane Study 8. CO Methane Study 9. DRCOG Methane Study 10. Denver CO Old Fil Sites 11. CO Old Waste Sites

State/Tribal LUST: COSTIS DATABASE OF LEAKING UNDERGROUND STORAGE TANKS - Colorado Department of Labor and Employment's Colorado Storage Tank Information System (COSTIS) provides this data. LUST Trust Tanks - This is an old list of locations where tank leaks were suspected and LUST (Leaking Underground Storage Tank) Trust funds were used in an effort to identify the source. Often, the facility responsible for the leak was found nearby, and that facility was then entered into the LUST database. In other cases, however, the source was never identified, and nothing was ever entered into the LUST database. When responsibility for the tank program was transferred from CDPHE (Colorado Department of Public Health & Environment) to CDLE (Colorado Department of Labor & Employment) in the '90s, this old LUST Trust list was never entered into the new COSTIS database (Colorado Storage Tank Information System). Few people at CDLE are aware of this old list, and any files associated with the listings have apparently been discarded or misplaced.

State/Tribal UST/AST: COSTIS DATABASE OF UNDERGROUND STORAGE TANKS - Colorado Department of Labor and Employment's Colorado Storage Tank Information System (COSTIS) provides this data.

State/Tribal EC: CDPHE ENVIRONMENTAL COVENANTS - Senate Bill 01-145 gave authority to the Colorado Department of Public Health and Environment to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. When a contaminated site is not cleaned up completely, land use restrictions may be used to ensure that the selected cleanup remedy is adequately protective of human health and the environment.

State/Tribal VCP: CDPHE THE VOLUNTARY CLEANUP AND REDEVELOPMENT PROGRAM PROGRAM - The Voluntary Cleanup and Redevelopment program was created in 1994. The objective of the program is to facilitate the redevelopment and transfer of contaminated properties. Cleanup decisions are based on existing standards and the proposed use of the property. The actual cleanup and verification is the owner's responsibility.

Receptors: US DOC SENSITIVE RECEPTORS - 2005 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

NPDES: EPA THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

FINDS: EPA FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

TRIS: EPA TOXIC RELEASE INVENTORY SYSTEM (TRIS)– Database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and expanded by the Pollution Prevention Act of 1990.

HMIRS: US DOT HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

NCDB: EPA NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

PADS: EPA DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

RADON: NTIS NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

AIRS: EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) – database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

DOCKET: EPA INTERGRADED COMPLIANCE INFORMATION SYSTEM (ICIS) - database of federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act (CAA), the Clean Water Act (CWA), the Resource Conservation and Recovery Act (RCRA), the Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313, the Toxic Substances Control Act (TSCA), the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund), the Safe Drinking Water Act (SDWA), and the Marine Protection, Research, and Sanctuaries Act (MPRSA).

Nuclear Permits: EPA/NRC PERMITTED NUCLEAR FACILITIES - This database is a comprehensive listing of all facilities which have been issued permits for the handling of radioactive materials, in addition it also contains a complete listing of all licensed and active nuclear power plants located within the United States. THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

Federal Other: EPA SECTION SEVEN TRACKING SYSTEM (SSTS) – database of registration and production data for facilities which manufacture pesticides. VAPOR INTRUSION DATABASE – database that records the migration of volatile chemicals from the subsurface into overlying buildings. Volatile chemicals in contaminated soil or groundwater can emit

vapors that may migrate through soil and into indoor air spaces.

SETS PRP: EPA POTENTIALLY RESPONSIBLE PARTIES (PRP) – database of parties identified by the EPA as being potential responsible for contamination at a CERCLIS or NPL site.

Federal IC / EC: EPA FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated. RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES (RCRA) – RCRA site the have institutional controls.

Meth Labs: US DOJ NATIONAL CLANDESTINE LABORATORY REGISTER - Database of 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 U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

Vapor Intrusion: EPA VAPOR INTRUSION DATABASE - This database contains site-specific measurements of vapor attenuation, or the reduction in vapor concentrations as volatile contaminants move from soil and groundwater into indoor air.

Environmental FirstSearch Database Sources

NPL: EPA Environmental Protection Agency

Updated quarterly

NPL DELISTED: EPA Environmental Protection Agency

Updated quarterly

CERCLIS: EPA Environmental Protection Agency

Updated quarterly

NFRAP: EPA Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: EPA Environmental Protection Agency.

Updated quarterly

RCRA TSD: EPA Environmental Protection Agency.

Updated quarterly

RCRA GEN: EPA/MA DEP/CT DEP Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA NLR: EPA Environmental Protection Agency

Updated quarterly

Fed Brownfield: EPA Environmental Protection Agency

Updated quarterly

ERNS: EPA/NRC Environmental Protection Agency National Response Center.

Updated annually

Tribal Lands: DOI/BIA United States Department of the Interior Bureau of Indian Affairs

Updated annually

State/Tribal Sites: CDPHE The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

State Spills 90: CDPHE CDPHE Hazardous Materials and Waste Management Division

Updated annually

State/Tribal SWL: CDPHE The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division Public Safety

Updated annually

State/Tribal LUST: COSTIS The Colorado Department of Labor and Employment/Division of Oil and Public Safety

Updated semi-annually

State/Tribal UST/AST: COSTIS The Colorado Department of Labor and Employment/Division of Oil and Public Safety

Updated semi-annually

State/Tribal EC: CDPHE rado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

State/Tribal VCP: CDPHE The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

Receptors: US DOC US Department of Commerce, Census Bureau

Updated periodically

NPDES: EPA Environmental Protection Agency

Updated quarterly

FINDS: EPA Environmental Protection Agency

Updated annually

TRIS: EPA Environmental Protection Agency.

Updated quarterly

HMIRS: US DOT US Department of Transportation

Updated quarterly

NCDB: EPA Environmental Protection Agency

Updated quarterly

PADS: EPA Environmental Protection Agency

Updated quarterly

RADON: NTIS Environmental Protection Agency, National Technical Information Services

Updated periodically

AIRS: EPA Environmental Protection Agency

Updated quarterly

DOCKET: EPA Environmental Protection Agency

Updated when available

Nuclear Permits: EPA/NRC Nuclear Regulatory Commission Environmental Protection Agency.

Updated periodically

Federal Other: EPA Environmental Protection Agency

Updated quarterly

SETS PRP: EPA Environmental Protection Agency, National Technical Information Services

Updated when available

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

Meth Labs: US DOJ U.S. Department of Justice

Updated when available

Vapor Intrusion: EPA Environmental Protection Agency

Updated when available

Environmental FirstSearch

Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 6TH AVE
DENVER, CO 80219

JOB: US 6

Street Name	Dist/Dir	Street Name	Dist/Dir
6TH AVE	0.00--		
Alcott St	0.02 NE		
Alley	0.03 SE		
Bryant St	0.00--		
Canosa Ct	0.03 NE		
Dale Ct	0.07 NW		
Decatur St	0.11 SW		
Eliot St	0.04 NW		
Federal Blvd	0.00--		
Grove St	0.23 SW		
Hazel Ct	0.17 NW		
Hooker St	0.09 NW		
I 25	0.00--		
Irving St	0.05 NW		
Julian St	0.03 NW		
King St	0.07 SW		
Knox Ct	0.00--		
Lowell Blvd	0.13 NW		
Meade St	0.2 SW		
N Seminole Rd	0.13 NE		
Osage St	0.12 SE		
Quivas St	0.06 SE		
Ramp	0.00--		
Raritan Way	0.03 SE		
Seminole Rd	0.13 NE		
State Hwy 88	0.00--		
Tejon St	0.24 NE		
Umatilla St	0.12 NE		
US Hwy 6	0.00--		
US Hwy 85	0.00--		
US Hwy 87	0.00--		
Vallejo St	0.13 NE		
W 4th Ave	0.18 SW		
W 5th Ave	0.06 SW		
W 5th Pl	0.03 SE		
W 6th Ave	0.02 NE		
W 6th Avenue Frontage S	0.13 NW		
W 6th Avenue Fwy	0.00--		
W 7th Ave	0.12 NE		
W 8th Ave	0.18 NE		
W 8th Byp	0.03 NW		
W Severn Pl	0.19 NW		
W Short Pl	0.17 SW		
Walkway	0.14 NE		
Wyandot St	0.24 SE		
Yuma St	0.11 SE		



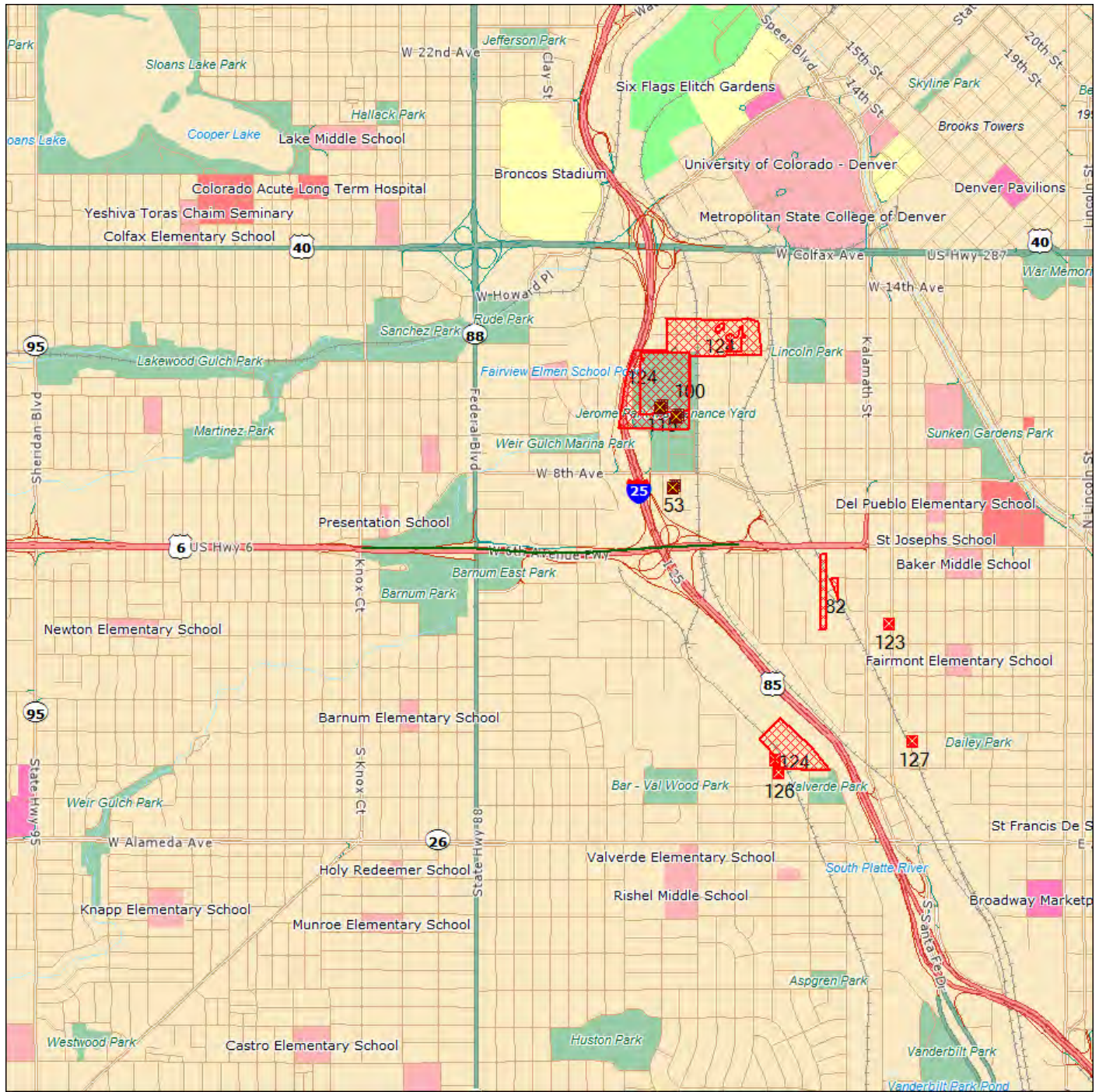
Environmental FirstSearch

1 Mile Radius from Line

ASTM Map: NPL, RCACOR, STATE Sites



6TH AVE, DENVER, CO 80219



Source: Tele Atlas

- Linear Search Line
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand.....
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



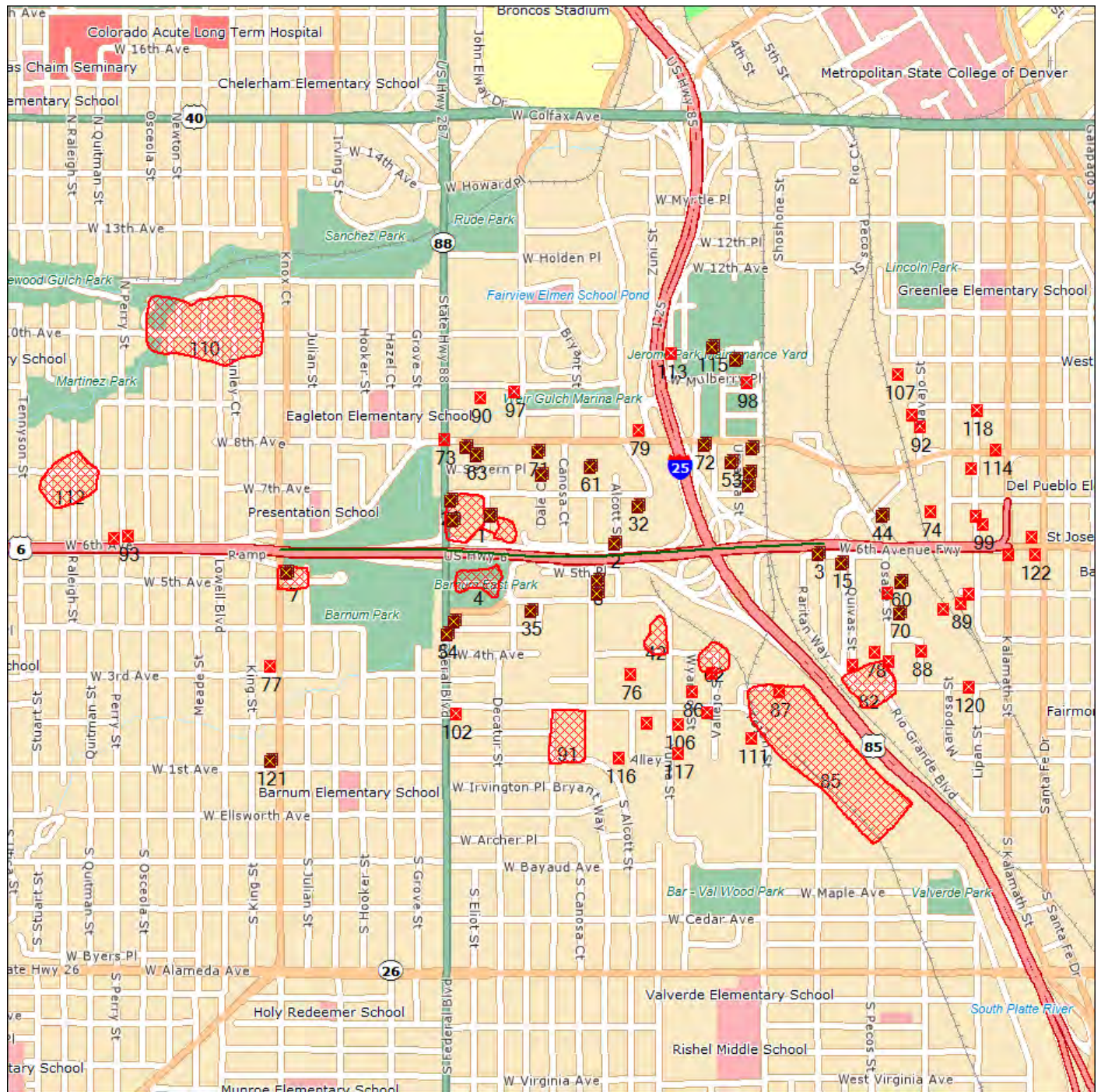
Environmental FirstSearch

.5 Mile Radius from Line

ASTM Map: CERCLIS, RCRATSD, LUST, SWL



6TH AVE, DENVER, CO 80219



Source: Tele Atlas

- Linear Search Line
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



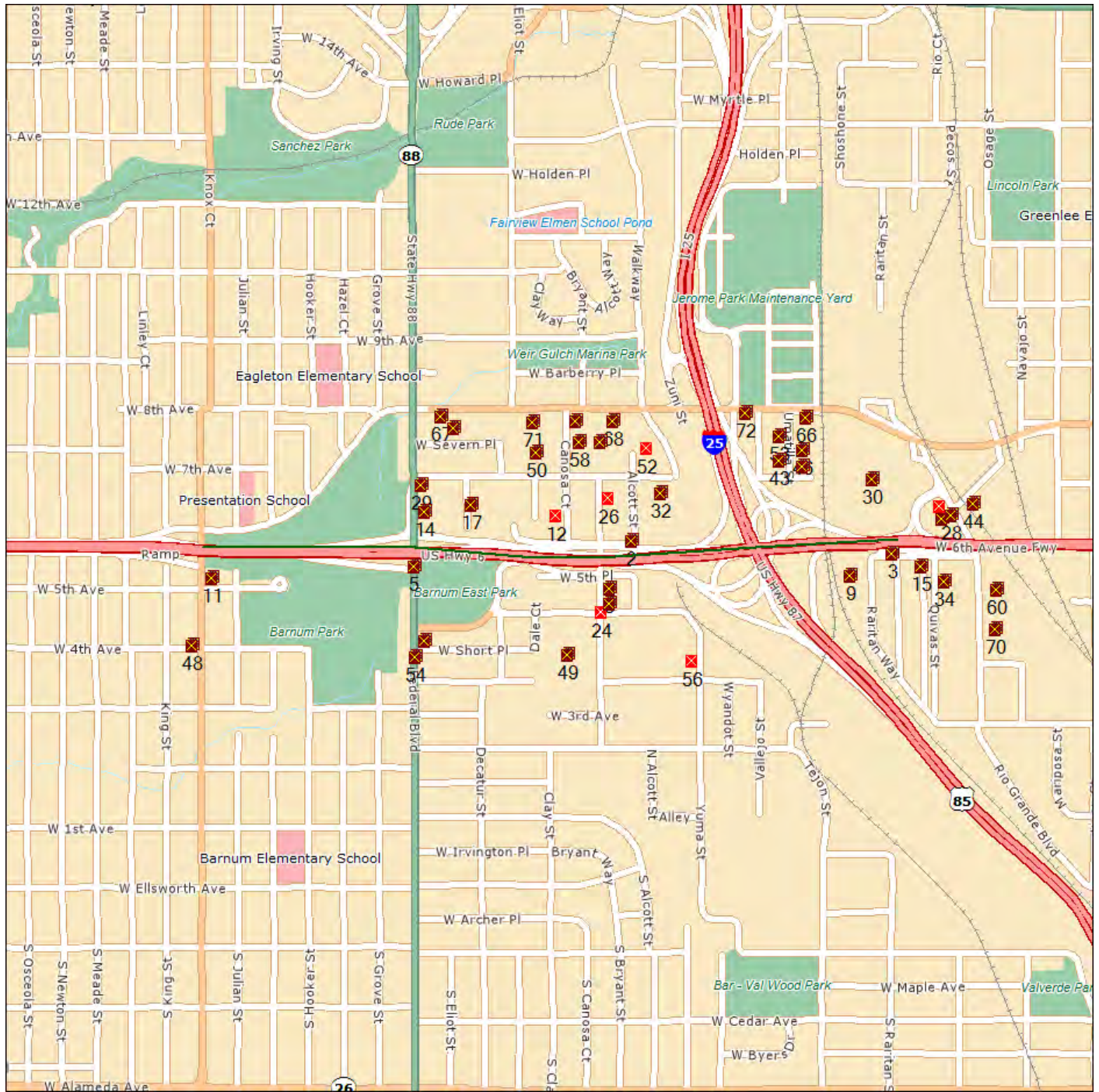
Environmental FirstSearch

.25 Mile Radius from Line

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



6TH AVE, DENVER, CO 80219



Source: Tele Atlas

- Linear Search Line
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



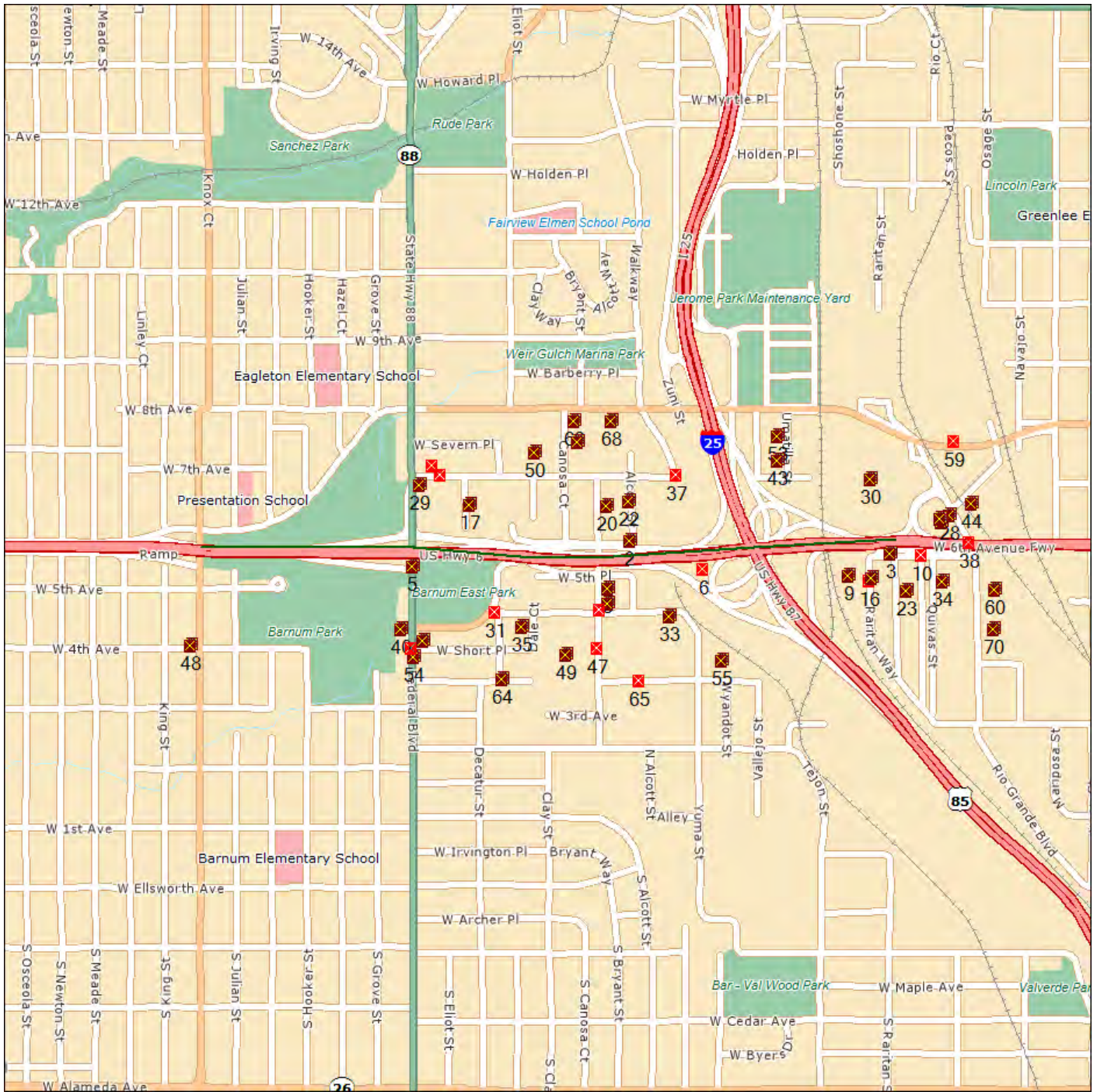
Environmental FirstSearch

.25 Mile Radius from Line

Non-ASTM Map: Multiple Databases



6TH AVE, DENVER, CO 80219



Source: Tele Atlas

- Linear Search Line
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand
- National Historic Sites and Landmark Sites
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

APPENDIX B

Photo Log



Photo 1 (438 Federal Boulevard) – View of monitoring wells located in alley behind Conoco gas station



Photo 2 (438 Federal Boulevard) – View of 55-gallon drums located behind Conoco gas station building

APPENDIX C

Limited Subsurface Investigation

February 2012



February 14, 2012

Marvinetta Hartwig
Hartwig & Associates
188 Inverness Drive West, Suite 675
Englewood, CO 80112

**RE: Limited Subsurface Investigation and Temporary Groundwater Monitoring Well Installation, U.S. Highway 6 Bridges at Interstate 25, Denver, Colorado
Olsson Associates Project #011-2359**

Dear Ms. Hartwig,

The letter presents the observations and results from a limited subsurface investigation and temporary monitoring well construction performed in December 2011 and a groundwater sampling event performed in January 2012 conducted per Olsson Associate's July 2011 proposal and cost estimate. These activities were conducted in connection with the pre-construction and redevelopment of the U.S. Highway 6 Bridges between Interstate Highway 25 and Federal Boulevard in the City and County of Denver. All six of the temporary monitoring wells were located within the Colorado Department of Transportation (CDOT) right-of-way.

Limited Subsurface Investigation

The limited subsurface investigation was conducted on December 7, 9, 12, and 20, 2011 and coincided with the installation of the retaining wall geotechnical borings RW1-2, RW2-1, RW3-2, RW5-1, RW6-1, and RW7-1 as shown on Figure 1. The drilling of the retaining wall borings were overseen and logged by Rocksol, and the work was performed by Dakota Drilling, of Denver, Colorado. Olsson personnel also logged the borings to record the lithologies encountered and any evidence of petroleum hydrocarbon impact, evidence of chemical impacts, and the depth to groundwater.

Olsson personnel oversaw the installation and completion of the temporary groundwater monitoring wells in each of the retaining wall borings which were selected based on their location and expected depth that Rocksol needed to complete the geotechnical investigation. Soils collected for the geotechnical investigation were examined for evidence of staining or odor, and were screened using a photoionization detector (PID) to assess the presence of petroleum hydrocarbons. No evidence of significant petroleum hydrocarbon or chemical impacts was observed in any of the soil borings.

Soil samples were collected from the interval at or slightly above the groundwater table and also from the bottom of each boring. These were placed into laboratory provided glass sample jars and were submitted to ALS Laboratories in Houston, Texas for the analysis of the petroleum hydrocarbon constituents, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Method SW 8260, total concentrations of the eight Resource Conservation and Recovery Act (RCRA) Metals by SW 6020/SW 7471A, and percent moisture by SW 3550. The sample jars were labeled with the date, time, analytical parameters, and were placed into plastic coolers and stored on ice. The soil samples were shipped to ALS Laboratories in Houston, Texas following chain-of-custody protocols and custody seals.

Soil Analytical Results

The laboratory analytical results indicated that BTEX compound concentrations were not detected above the laboratory reporting limit in any of the soil samples, and with one exception were not detected above the method detection limit in the soil samples. Toluene was reported at an estimated concentration of 0.0097 mg/kg in the RW7-1 at 30 feet below ground surface (bgs). This toluene result is qualified with a "J" indicating that it was reported above the method detection limit, but is less than the laboratory reporting limit, and is well below the state regulatory limits for toluene in soils.

The BTEX and percent moisture results are shown on Table 1 and are compared to the Colorado Soil Evaluation Values (CSEV) established by the Colorado Department of Public Health and Environment (CDPHE) as soil cleanup standards (July 2011) as part of the Voluntary Cleanup Program. The most stringent soil cleanup standards are usually the residential soil standards which are based on toxicology data and potential routes of exposure.

The soil samples were also submitted for total metal concentrations of the eight RCRA metals. The results indicated that arsenic was detected in concentrations that exceed the residential soil standard in 9 of the 12 soil samples submitted. These arsenic concentrations may be due to naturally occurring arsenic in the soils. Estimated concentrations above the method detection limit (MDL) and at or slightly below the CSEV residential standard of 0.39 milligrams per kilogram (mg/kg) were reported in three of the samples. The highest arsenic concentration was 2.27 mg/kg in boring RW3-2 at 16 feet to 18 feet below ground surface (bgs).

The laboratory reported that concentrations of barium were detected in all 12 soil samples, but none of the concentrations exceed the residential soil standard of 15,000 mg/kg. The total barium results ranged from 6.5 mg/kg (RW2-1 at 21.5 to 22 ft) to 113 mg/kg (RW3-2 16 to 18 ft). Cadmium concentrations were reported above the MDL, but below the laboratory reporting limit in 9 of the 12 soil samples, and are qualified with a "J" as an estimated value. The laboratory reported that cadmium was not detected above the MDL in the three remaining soil samples, and all of the cadmium results are well below the CSEV residential soil standard of 70 mg/kg.

The laboratory reported that concentrations of chromium were detected in all 12 of the soil samples submitted from the six retaining wall/temporary monitoring well borings. The chromium concentrations ranged from 0.654 mg/kg (RW2-1 at 29 to 30 ft) to 8.20 mg/kg (RW7-1 at 30 ft), and are well below the CSEV residential soil limit of 120,000 mg/kg.

The laboratory reported that lead concentrations were detected in all 12 of the soil samples. The lead concentrations ranged from 1.17 mg/kg (RW2-1 at 29 to 30 ft) to 8.23 mg/kg (RW7-1 at 30 ft). The total lead concentrations are all well below the CSEV residential soil standard of 400 mg/kg.

The laboratory reported that total mercury was not detected in 8 of the 12 soil samples, and reported that mercury concentrations were estimated above the MDL in two of the soil samples. The concentrations that were reported above the laboratory reporting limit were 0.00505 mg/kg (RW3-2 at 16 to 18 ft) and 0.00824 mg/kg (RW7-1 at 30 ft), and are well below the CSEV residential soil standard for mercury of 13 mg/kg.

The laboratory reported concentrations of selenium were not detected in three of the soil samples and estimated values above the MDL, but below the reporting limit, were reported in three other soil samples. The laboratory reported that the remaining six soil samples had selenium concentrations that ranged from 0.486 mg/kg (RW2-1 21.5 to 22 ft) to 2.33 mg/kg (RW3-2 16 to 18 ft). These concentrations are all well below the CSEV residential soil standard for selenium of 390 mg/kg.

The laboratory reported that concentrations of silver were not detected in any of the 12 soil samples submitted. Therefore, silver does not appear to be an issue with any of the soils, and the laboratory reporting limit of approximately 0.5 mg/kg is well below the CSEV residential soil standard of 390 mg/kg.

Temporary Groundwater Monitoring Well Installation

Six temporary groundwater monitoring wells were installed in retaining wall geotechnical borings RW1-2, RW2-1, RW3-2, RW5-1, RW6-1, and RW7-1. The monitoring wells were constructed by Dakota Drilling with oversight from Olsson Associates. The temporary monitoring wells were constructed in accordance with the Colorado State Engineer's Office requirements.

A notice of intent was supposed to be filed with the Colorado State Engineer's Office three days prior to the drilling; however, this was not done due to an oversight. Olsson personnel did submit copies of the Well Construction and Test Reports to the Colorado State Engineer's Office after the fact.

The six borings were constructed as temporary groundwater monitoring wells, using 2-inch diameter schedule 40 polyvinyl chloride (PVC), 0.010-inch factory slotted screen, and 2-inch diameter schedule 40 PVC blank pipe casing. The total depths ranged from 25 feet bgs to 35 feet bgs. Approximately 15 feet to 20 feet of screen were used in each well. A threaded bottom cap was installed at the base of the screen section. The annulus around the screen from the bottom of the boring was filled with 10-20 Colorado Silica Sand.

The sand pack was brought up to two feet above the top of the well screen. The remaining annular space in the wells around the blank PVC pipe casing was filled with 3/8-diameter bentonite crumbles up to approximately one foot bgs. Potable water was used to hydrate the bentonite to form a seal in the well annulus. The PVC casing was capped with a locking, expandable J-plug. The top of each well was completed with a flush-mounted, traffic rated well box with a removable bolted cover. The well flush-mounted well box was grouted in place using quick setting concrete.

Groundwater Sampling

Grab groundwater samples were collected from the six temporary monitoring wells on January 4, 2012. Prior to groundwater sampling, the depth to groundwater was measured using a water level indicator in each of the monitoring wells relative to the north side top of the PVC well casing. The depth to groundwater ranged from 17.01 feet bgs (RW2-1) to 29.71 ft bgs (RW5-1). Field parameters including temperature, pH, specific conductance, dissolved oxygen, and oxidation-reduction potential were measured in each of the wells. In accordance with Olsson's July 2011 proposal the monitoring wells were not developed, nor was groundwater purged from the wells, prior to sampling. Groundwater flow is expected to be directed toward and parallel the flow in the South Platte River, i.e. to the north-northeast.

The grab groundwater samples were collected using dedicated, disposable bailers and nylon rope. The samples were placed into laboratory provided containers and were shipped on ice to ALS Laboratories in Houston, Texas following chain-of-custody protocols and custody seals. The groundwater samples were submitted for laboratory analysis of BTEX by SW 8260, Oil & Grease E 1664, total concentrations of the 8 RCRA metals SW 6020/SW 7471A, pH by E150.1, Total Suspended Solids (TSS) M2540D, and E.Coli by SM 9221F. The E.Coli samples were analyzed by Industrial Laboratories in Wheat Ridge, Colorado.

Groundwater Analytical Results

The groundwater analytical results show that concentrations of the BTEX compounds were not detected above the MDL in any of the six groundwater samples. Concentrations of oil & grease were not detected above the MDL in two samples, but were estimated above the MDL in four of the six samples ranging from 0.0638 milligrams per liter (mg/L) (RW1-2) to 1.69 mg/L (RW2-1). All four of these results are qualified with a "J" value which indicates that they were detected above the MDL, but not the laboratory reporting limit. The Colorado Basic Standards for Groundwater have a limit of 10 mg/L for Oil & Grease.

The laboratory reported total metal concentrations arsenic, barium, chromium, lead, and selenium that exceed the Colorado Basic Groundwater Quality Standards in all 6 of the samples. The laboratory reported concentrations of cadmium in 3 of the 6 samples that exceed the Colorado Basic Groundwater Quality Standard of 0.005 mg/L. Concentrations of mercury were detected, but did not exceed the Colorado Basic Groundwater Quality Standard of 0.002 mg/L. Concentrations of silver were estimated above the MDL in 5 of the groundwater samples and were reported at 0.0112 mg/L in the sample from RW1-2. The concentrations of silver did not exceed the Colorado Basic Groundwater Quality Standard of 0.05 mg/L silver.

The pH readings were all qualified with an "H" meaning that they were analyzed outside of holding time since pH has an instantaneous holding time, and was also measured in the field. The pH results ranged from 6.38 (RW1-2) to 6.54 (RW2-1). Concentrations of TSS ranged from 10,800 mg/L (RW3-2) to 48,200 mg/L (RW7-1).

Industrial Laboratories reported concentrations of E.Coli bacteria in the "most probable number per milliliter" (MPN/ml). The laboratory report states that the analysis conforms to EPA 40CFR 136. The results in three of the samples were "Non-Detect" reported at < 2 MPN/ml (RW1-2, RW5-1, and RW6-1), two of the sample results were 4 MPN/ml (RW2-1 and RW3-1), and the highest count was 7 MPN/ml (RW7-1). These results are below CDPHE WQCD 5 CCR 1002-38 regulation for E. Coli which has limits of 126/100 ml.

Conclusions

The soil analytical results did not exceed the CSEV residential cleanup goals for any of the analytes except for arsenic. According to *Elements in North American Soils – Second Edition* (Dragun and Cherkiri, 2005) background arsenic in Colorado soils range from 1.3 part per million (ppm) to 16 ppm, and mean of 6.1 ppm. Colorado surface horizon soils ranged from 1.2 ppm to 24 ppm, with a mean of 5.4 ppm. One ppm is approximately equivalent to 1 mg/kg. Therefore, the arsenic concentrations appear to be within the range of natural background.

The groundwater results for BTEX compounds show that groundwater samples were not impacted. Concentrations of oil & grease were estimated above the MDL, but were below the laboratory reporting limit, and were well below 10 mg/L.

Total concentrations of the RCRA metals, arsenic, barium, cadmium, chromium, lead, and selenium, exceed the Colorado Basic Groundwater Standards in several or all six of the monitoring well samples. The wells were not developed or purged prior to sampling and were likely very turbid, which may have resulted in the elevated metals concentrations. The groundwater samples were not filtered. The TSS numbers are also very high which indicates that the groundwater sample turbidity was also high.

The highest results for several of the parameters were collected from monitoring wells RW7-1 and RW3-2 which were the two wells closest to the South Platte River. These wells were also completed into the top of bedrock (Denver Formation); whereas the other four wells were completed entirely within the South Platte alluvium. Developing the wells to remove sediment and then allowing a minimum of 24-hours before re-sampling could result in lower total metals concentrations, or filtering the samples in the field may be another option.

The elevated total metals concentrations could pose a problem for disposal if groundwater is encountered during excavation, and if excavation dewatering is required. The CDPHE WQCD may require that the water be treated prior to discharge if the water will go to the South Platte River. If no longer needed the temporary monitoring wells should be properly abandoned and well abandonment forms should be submitted to the Colorado State Engineer's Office.

Olsson appreciates this opportunity to be of service in performing this limited subsurface investigation and groundwater monitoring for Hartwig and Associates. Please contact me at (303) 237-2072 if you have any questions.

Sincerely,

Olsson Associates



James W. Hix
Senior Geologist

Attachments

TABLES

Table 1

Soil Analytical Results - Volatiles
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID and depth (feet)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Percent Moisture (wt%)
CSEV Table residential		1.2	4700	6	710	N/A
CSEV Table worker		1.6	24000	7.8	1000	N/A
CSEV Table GW Protection		0.17	50	100	75	N/A
RW1-2 @ 19ft	12/9/11	< 0.005	< 0.005	< 0.005	< 0.015	3.04
RW1-2 @ 25 ft	12/9/11	< 0.005	< 0.005	< 0.005	< 0.015	14.4
RW2-1 @ 21.5-22 ft	12/7/11	< 0.005	< 0.005	< 0.005	< 0.015	6.71
RW2-1 @ 29-30 ft	12/7/11	< 0.005	< 0.005	< 0.005	< 0.015	17.8
RW3-2 @ 16-18 ft	12/7/11	< 0.005	< 0.005	< 0.005	< 0.015	20.2
RW3-2 @ 20-21.5 ft	12/7/11	< 0.005	< 0.005	< 0.005	< 0.015	14.4
RW5-1 @ 26 ft	12/9/11	< 0.005	< 0.005	< 0.005	< 0.015	3.26
RW5-1 @ 35.5 ft	12/9/11	< 0.005	< 0.005	< 0.005	< 0.015	13.1
RW6-1 @ 26 ft	12/12/11	< 0.005	< 0.005	< 0.005	< 0.015	13.4
RW6-1 @ 31.5 ft	12/12/11	< 0.005	< 0.005	< 0.005	< 0.015	NR
RW7-1 @ 18 ft	12/20/11	< 0.005	< 0.005	< 0.005	< 0.015	3.86
RW7-1 @ 30 ft	12/20/11	< 0.005	0.0097 J	< 0.005	< 0.015	18.8

Notes: CSEV – Colorado Soil Evaluation Values, Colorado Department of Public Health and Environment (CDPHE) Soil Cleanup Standards (July 2011)
mg/kg – milligrams per kilogram
< - Analyte not detected above the method detection limit (MDL)
N/A – not applicable
NR – not reported
Percent Moisture in Weight Percent (wt %)

Table 2

Soil Analytical Results – Total RCRA Metals
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID and depth (feet)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
CSEV Table residential		0.39	15000	70	120000	400	13	390	390
CSEV Table worker		1.6	160000	770	1500000	800	160	5100	5100
CSEV Table leachate (mg/L)		0.22	44	0.11	2.2	1.1	0.025	0.44	1.1
RW1-2 @ 19ft	12/9/11	0.683	22.0	0.0755 J	1.48	3.03	< 0.00358	0.545	< 0.463
RW1-2 @ 25 ft	12/9/11	0.551	14.9	0.0762 J	1.34	1.89	< 0.00351	0.575	< 0.469
RW2-1 @ 21.5-22 ft	12/7/11	0.345 J	6.50	0.0660 J	0.936	1.49	< 0.00343	0.486	< 0.442
RW2-1 @ 29-30 ft	12/7/11	0.509	14.2	0.0680 J	0.654	1.17	< 0.0034	0.299 J	< 0.437
RW3-2 @ 16-18 ft	12/7/11	2.27	113	0.169 J	8.20	6.15	0.00505	2.33	< 0.443
RW3-2 @ 20-21.5 ft	12/7/11	0.987	27.3	0.0859 J	2.50	4.04	0.00292 J	0.592	< 0.459
RW5-1 @ 26 ft	12/9/11	0.334 J	10.5	0.0753 J	1.13	1.91	< 0.00358	0.637	< 0.480
RW5-1 @ 35.5 ft	12/9/11	0.400 J	10.9	0.0707 J	1.02	1.36	< 0.00358	0.423 J	< 0.465
RW6-1 @ 26 ft	12/12/11	0.916	16.0	< 0.491	1.12	1.51	< 0.00345	0.304 J	< 0.491
RW6-1 @ 31.5 ft	12/12/11	0.547	12.2	< 0.469	1.82	1.59	0.000423 J	< 0.469	< 0.469
RW7-1 @ 18 ft	12/20/11	0.879	15.4	< 0.480	1.38	1.87	< 0.00345	< 0.480	< 0.480
RW7-1 @ 30 ft	12/20/11	0.900	93.5	0.0960 J	3.34	8.23	0.00824	< 0.463	< 0.463

Notes: CSEV – Colorado Soil Evaluation Values, Colorado Department of Public Health and Environment (CDPHE) Soil Cleanup Standards (July 2011)

Values in bold exceed the residential soil standard for arsenic.

mg/kg – milligrams per kilogram

mg/L – milligrams per liter (Leachate Value) (Total metal concentrations reported)

J – Estimated concentration reported above the method detection limit (MDL) but below the reporting limit (RL)

< - Analyte not detected above the method detection limit (MDL)

Table 3

Groundwater Analytical Results – Field Parameters
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	Depth to Water (ft-bgs)	Measuring Point Elevation (ft)	Approximate Groundwater Elevation (ft)	Temperature (°C)	Dissolved Oxygen (mg/L)	pH (s.u.)	Specific Conductance (mg/cm ³)	ORP
RW 1-2	01/04/2012	22.00	5214.27	5192.27	16.43	0.54	6.6	1.405	- 25.5
RW 2-1	01/04/2012	17.01	5209.19	5192.18	17.27	0.44	6.3	1.617	8.4
RW 3-2	01/04/2012	14.52	5208.11	5193.59	15.43	0.22	5.6	1.269	187.5
RW 5-1	01/04/2012	29.71	5222.43	5192.72	17.67	0.43	6.2	1.524	11.2
RW 6-1	01/04/2012	25.50	5218.23	5192.73	17.32	0.60	6.4	1.423	26.5
RW 7-1	01/04/2012	20.50	5214.10	5193.60	16.07	0.40	6.8	1.372	337.2

Notes:

Groundwater level measurements were taken using an oil/water interface probe. The groundwater elevations were calculated from survey elevation data provided by the Lund Partnership and Rocksol. Field parameter data was collected using a downhole YSI model 556 water quality meter.

Ft-bgs: Feet below ground surface
 (°C) – Temperature in degrees centigrade
 Mg/L – milligrams per liter
 s.u. – standard units of pH
 mg/cm³ - milligrams per cubic centimeter
 ORP – oxidation reduction potential

Table 4

Groundwater Analytical Results – Petroleum Constituents
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Oil & Grease (mg/L)
5 CCR 1002-41 Regulation 41		0.005	1.0	0.70	10.0	N/A
5 CCR 1002-62 Regulation 62		N/A	N/A	N/A	N/A	10
CSEV 2011		0.005	0.56	0.70	1.4	N/A
RW 1-2	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	0.638 J
RW 2-1	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	1.69 J
RW 3-2	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 2.00
RW 5-1	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	0.652 J
RW 6-1	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 2.00
RW 7-1	01/04/2012	< 0.005	< 0.005	< 0.005	< 0.015	0.682 J

Notes:

5 CCR 1002-41 (Regulation 41) Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission - The Basic Standards for Groundwater, Amended October 2009, and 5 CCR 1002-62 (Regulation 62) Regulations for Effluent Limitations Amended February 2008

CSEV – Colorado Soil Evaluation Values, CDPHE July 2011

mg/L– milligrams per liter

< - Analyte not detected above the method detection limit (MDL)

J – Estimated concentration of analyte above the method detection limit (MDL) but below the laboratory reporting limit (RL).

N/A – Not Applicable

Table 5

Groundwater Analytical Results – Total RCRA Metals
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
5 CCR 1002-41 Regulation 41		0.01	2.0	0.005	0.1	0.05	0.002	0.05	0.05
5 CCR 1002-38 Regulation 38		0.0002 (ch) 0.340 (ac)	2.0	0.005	0.050	0.05	0.01 (total)	0.05	0.05
CSEV 2011		0.01	2.0	0.005	0.1	0.05	0.0011	0.02	0.05
RW 1-2	01/04/2012	0.0994	11.4	0.00640	0.753	2.07	0.000833	0.0984	0.0112
RW 2-1	01/04/2012	0.0512	2.66	0.00329	0.282	0.348	0.000465	0.0312	0.00127 J
RW 3-2	01/04/2012	0.0784	4.25	0.00615	0.241	0.628	0.00137	0.0352	0.00194 J
RW 5-1	01/04/2012	0.0755	6.61	0.00377	0.293	0.576	0.000980	0.0652	0.00358 J
RW 6-1	01/04/2012	0.143	4.20	0.0093	0.549	0.425	0.00178	0.0708	0.00232 J
RW 7-1	01/04/2012	0.112	4.85	0.00486	0.270	0.360	0.00117	0.0518	0.00176 J

Notes:

Colorado Department of Public Health and Environment (CDPHE) 5 CCR 1002-41 (Regulation 41) Water Quality Control Commission – The Basic Standards for Groundwater Amended, October 2009

CDPHE 5 CCR 1002-38 (Regulation 38) Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Amended June 13, 2011. The values are for the Upper South Platte River Basin, Stream Segment 14 – Main stem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado. Arsenic (acute) = 0.340 mg/L (dissolved), Arsenic chronic = 0.0002 mg/L (total recoverable)*
CSEV – Colorado Soil Evaluation Values, Water Standard CDPHE - Water Standards (July 2011)

Values in bold exceed one or more of the Groundwater Standards. Therefore, if groundwater is encountered in excavations and results in dewatering, the groundwater may require treatment prior to discharge to surface waters to meet the standards. The depth to groundwater was approximately 20 feet below ground surface as measured in the six wells.

mg/L – milligrams per liter (Total metal concentrations were reported. These samples are grab samples without prior well development or sample filtration.)

J – Estimated concentration reported above the method detection limit (MDL) but below the reporting limit (RL)

< - Analyte not detected above the method detection limit (MDL)

(ac) acute (1-day)

(ch) chronic (30-day)

Trec – total recoverable metal concentration

*The Colorado Department of Transportation (CDOT), the Regional Transportation District (RTD), and the City and County of Denver requested an emergency adoption of a revision to the water + fish arsenic standard for Segment 14 of the Upper South Platte River Basin in order to facilitate the issuance of Colorado Discharge Permit System (CDPS) permits to segment 14 with chronic arsenic effluent limitations that are achievable with current and reasonable treatment capabilities. The Commission found that the revision was necessary since achieving arsenic discharge permit limitation that result from the current arsenic standard appear to be technologically unachievable. CDOT, RTD, and the City and County of Denver have expended significant public funds for multiple projects attempting to comply with the limits. Therefore, the Commission adopted the emergency temporary modification for the chronic arsenic standard for Segment 14.

It is possible that the treatment used to achieve the arsenic limit would also result in lowering the concentrations of the other metals that exceed limits. Since the samples represent unfiltered grab samples from undeveloped monitoring wells, Olsson recommends that the wells be re-sampled and filtered for dissolved metal concentrations or that the wells be developed and re-sampled for total metal concentrations.

Table 6

Groundwater Analytical Results – pH, TSS, and E. Coli
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	pH (s.u.)	Total Suspended Solids (mg/L)	E. Coli (MPN/ml)
5 CCR 1002-41 Regulation 41		6.5 to 9.0	N/A	N/A
5 CCR 1002-38 Regulation 38		6.5 to 9.0	N/A	126/100 ml
5 CCR 1002-62 Regulation 62		6.0 to 9.0	45 mg/L (7-day) 30 mg/L (30-day)	N/A
CSEV 2011		N/A	N/A	N/A
RW 1-2	01/04/2012	6.38 (H)	38,100	< 2
RW 2-1	01/04/2012	6.54 (H)	14,700	4
RW 3-2	01/04/2012	6.50 (H)	10,800	4
RW 5-1	01/04/2012	6.36 (H)	19,200	< 2
RW 6-1	01/04/2012	6.33 (H)	30,400	< 2
RW 7-1	01/04/2012	6.39 (H)	48,200	7

Notes:

5 CCR 1002-41 (Regulation 41) Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission - The Basic Standards for Groundwater, Amended October 2009, and 5 CCR 1002-62 (Regulation 62) Regulations for Effluent Limitations Amended February 2008
CDPHE 5 CCR 1002-38 (Regulation 38) Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Amended June 13, 2011. The values are for the Upper South Platte River Basin, Stream Segment 14 – Main stem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.
CDPHE 5 CCR 1002-62 (Regulation 62) Regulations for Effluent Limitations Amended February 2008
CSEV – Colorado Soil Evaluation Values, CDPHE July 2011

mg/L– milligrams per liter

N/A – Not Applicable

E. Coli – Escherichia coli bacteria

MPN/ml – most probable number per milliliter

< - Analyte not detected above the method detection limit (MDL)

J – Analyte estimated concentration above the method detection limit (MDL) but below the laboratory reporting limit (RL).

(H) – Analyte was run outside of holding time. Since pH is temperature dependent, pH has an immediate sample hold time and should be measured in the field.

FIGURE



LEGEND:
 ● Geotech Boring Location
 RW1-2 Retaining Wall Geotech Boring Location Completed as a Temporary Monitoring Well

TEMPORARY GROUNDWATER MONITORING WELL LOCATIONS

PROJECT NO: 011-2359
 DRAWN BY: JWH
 DATE: 02/09/2012

**U.S. Highway 6 Bridges
 Denver, Colorado**

OLSSON ASSOCIATES
 4690 Table Mountain Drive #200
 Golden, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

EXHIBIT
 1

ATTACHMENT A
SOIL SAMPLE
ANALYTICAL REPORTS



27-Dec-2011

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: CDOT Highway 6 Bridge

Work Order: **1112365**

Dear James,

ALS Environmental received 9 samples on 10-Dec-2011 10:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Patricia L. Lynch".

Electronically approved by: Mary K. Knowles

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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Environmental ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Work Order: 1112365

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1112365-01	RW3-2 @ 16-18ft	Soil		12/7/2011 10:45	12/10/2011 10:50	<input type="checkbox"/>
1112365-02	RW3-2 @ 20-21.5ft	Soil		12/7/2011 11:02	12/10/2011 10:50	<input type="checkbox"/>
1112365-03	RW2-1 @ 21.5-22ft	Soil		12/7/2011 13:30	12/10/2011 10:50	<input type="checkbox"/>
1112365-04	RW2-1 @ 29-30ft	Soil		12/7/2011 14:00	12/10/2011 10:50	<input type="checkbox"/>
1112365-05	RW1-2 @ 19ft	Soil		12/9/2011 09:50	12/10/2011 10:50	<input type="checkbox"/>
1112365-06	RW1-2 @ 25ft	Soil		12/9/2011 10:50	12/10/2011 10:50	<input type="checkbox"/>
1112365-07	RW5-1 @ 26ft	Soil		12/9/2011 12:35	12/10/2011 10:50	<input type="checkbox"/>
1112365-08	RW5-1 @ 35.5ft	Soil		12/9/2011 12:45	12/10/2011 10:50	<input type="checkbox"/>
1112365-09	Trip Blank 111411-28			12/9/2011 14:12	12/10/2011 10:50	<input type="checkbox"/>

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Work Order: 1112365

Case Narrative

Batch 57604 Mercury, Sample 1112336-11A: MS/MSD is for an unrelated sample.

Batch 57637 Metals, Sample 1112412-21A: MS/MSD and DUP are for an unrelated sample.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW3-2 @ 16-18ft
Collection Date: 12/7/2011 10:45 AM

Work Order: 1112365
Lab ID: 1112365-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	5.05		3.59	µg/Kg	1	12/14/2011 07:09 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	2.27		0.443	mg/Kg	1	12/16/2011 06:03 AM
Barium	113		0.443	mg/Kg	1	12/16/2011 06:03 AM
Cadmium	0.169	J	0.443	mg/Kg	1	12/16/2011 06:03 AM
Chromium	8.20		0.443	mg/Kg	1	12/16/2011 06:03 AM
Lead	6.15		0.443	mg/Kg	1	12/16/2011 06:03 AM
Selenium	2.33		0.443	mg/Kg	1	12/16/2011 06:03 AM
Silver	U		0.443	mg/Kg	1	12/16/2011 06:03 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 11:22 AM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 11:22 AM
Toluene	U		5.0	µg/Kg	1	12/14/2011 11:22 AM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 11:22 AM
Surr: 1,2-Dichloroethane-d4	79.2		70-128	%REC	1	12/14/2011 11:22 AM
Surr: 4-Bromofluorobenzene	93.5		73-126	%REC	1	12/14/2011 11:22 AM
Surr: Dibromofluoromethane	84.5		71-128	%REC	1	12/14/2011 11:22 AM
Surr: Toluene-d8	93.9		73-127	%REC	1	12/14/2011 11:22 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	20.2		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW3-2 @ 20-21.5ft
Collection Date: 12/7/2011 11:02 AM

Work Order: 1112365
Lab ID: 1112365-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B						
Mercury	2.92	J	3.47	µg/Kg	1	12/14/2011 07:11 PM
METALS						
Arsenic	0.987		0.459	mg/Kg	1	12/16/2011 06:10 AM
Barium	27.3		0.459	mg/Kg	1	12/16/2011 06:10 AM
Cadmium	0.0859	J	0.459	mg/Kg	1	12/16/2011 06:10 AM
Chromium	2.50		0.459	mg/Kg	1	12/16/2011 06:10 AM
Lead	4.04		0.459	mg/Kg	1	12/16/2011 06:10 AM
Selenium	0.592		0.459	mg/Kg	1	12/16/2011 06:10 AM
Silver	U		0.459	mg/Kg	1	12/16/2011 06:10 AM
VOLATILES						
Benzene	U		5.0	µg/Kg	1	12/14/2011 11:49 AM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 11:49 AM
Toluene	U		5.0	µg/Kg	1	12/14/2011 11:49 AM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 11:49 AM
Surr: 1,2-Dichloroethane-d4	81.1		70-128	%REC	1	12/14/2011 11:49 AM
Surr: 4-Bromofluorobenzene	94.4		73-126	%REC	1	12/14/2011 11:49 AM
Surr: Dibromofluoromethane	91.8		71-128	%REC	1	12/14/2011 11:49 AM
Surr: Toluene-d8	96.6		73-127	%REC	1	12/14/2011 11:49 AM
MOISTURE						
Percent Moisture	14.4		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW2-1 @ 21.5-22ft
Collection Date: 12/7/2011 01:30 PM

Work Order: 1112365
Lab ID: 1112365-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.43	µg/Kg	1	12/14/2011 07:13 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.345	J	0.442	mg/Kg	1	12/16/2011 06:45 AM
Barium	6.50		0.442	mg/Kg	1	12/16/2011 06:45 AM
Cadmium	0.0660	J	0.442	mg/Kg	1	12/16/2011 06:45 AM
Chromium	0.936		0.442	mg/Kg	1	12/16/2011 06:45 AM
Lead	1.49		0.442	mg/Kg	1	12/16/2011 06:45 AM
Selenium	0.486		0.442	mg/Kg	1	12/16/2011 06:45 AM
Silver	U		0.442	mg/Kg	1	12/16/2011 06:45 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 01:40 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 01:40 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 01:40 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 01:40 PM
Surr: 1,2-Dichloroethane-d4	81.5		70-128	%REC	1	12/14/2011 01:40 PM
Surr: 4-Bromofluorobenzene	95.4		73-126	%REC	1	12/14/2011 01:40 PM
Surr: Dibromofluoromethane	85.6		71-128	%REC	1	12/14/2011 01:40 PM
Surr: Toluene-d8	98.1		73-127	%REC	1	12/14/2011 01:40 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.71		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW2-1 @ 29-30ft
Collection Date: 12/7/2011 02:00 PM

Work Order: 1112365
Lab ID: 1112365-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.40	µg/Kg	1	12/14/2011 07:15 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.509		0.437	mg/Kg	1	12/16/2011 06:52 AM
Barium	14.2		0.437	mg/Kg	1	12/16/2011 06:52 AM
Cadmium	0.0680	J	0.437	mg/Kg	1	12/16/2011 06:52 AM
Chromium	0.654		0.437	mg/Kg	1	12/16/2011 06:52 AM
Lead	1.17		0.437	mg/Kg	1	12/16/2011 06:52 AM
Selenium	0.299	J	0.437	mg/Kg	1	12/16/2011 06:52 AM
Silver	U		0.437	mg/Kg	1	12/16/2011 06:52 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 02:08 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 02:08 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 02:08 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 02:08 PM
Surr: 1,2-Dichloroethane-d4	77.5		70-128	%REC	1	12/14/2011 02:08 PM
Surr: 4-Bromofluorobenzene	98.8		73-126	%REC	1	12/14/2011 02:08 PM
Surr: Dibromofluoromethane	87.3		71-128	%REC	1	12/14/2011 02:08 PM
Surr: Toluene-d8	102		73-127	%REC	1	12/14/2011 02:08 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	17.8		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW1-2 @ 19ft
Collection Date: 12/9/2011 09:50 AM

Work Order: 1112365
Lab ID: 1112365-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.58	µg/Kg	1	12/14/2011 07:17 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.683		0.463	mg/Kg	1	12/16/2011 06:58 AM
Barium	22.0		0.463	mg/Kg	1	12/16/2011 06:58 AM
Cadmium	0.0755	J	0.463	mg/Kg	1	12/16/2011 06:58 AM
Chromium	1.48		0.463	mg/Kg	1	12/16/2011 06:58 AM
Lead	3.03		0.463	mg/Kg	1	12/16/2011 06:58 AM
Selenium	0.545		0.463	mg/Kg	1	12/16/2011 06:58 AM
Silver	U		0.463	mg/Kg	1	12/16/2011 06:58 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 02:36 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 02:36 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 02:36 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 02:36 PM
Surr: 1,2-Dichloroethane-d4	80.1		70-128	%REC	1	12/14/2011 02:36 PM
Surr: 4-Bromofluorobenzene	96.3		73-126	%REC	1	12/14/2011 02:36 PM
Surr: Dibromofluoromethane	80.0		71-128	%REC	1	12/14/2011 02:36 PM
Surr: Toluene-d8	96.8		73-127	%REC	1	12/14/2011 02:36 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	3.04		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW1-2 @ 25ft
Collection Date: 12/9/2011 10:50 AM

Work Order: 1112365
Lab ID: 1112365-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.51	µg/Kg	1	12/14/2011 07:19 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.551		0.469	mg/Kg	1	12/16/2011 07:04 AM
Barium	14.9		0.469	mg/Kg	1	12/16/2011 07:04 AM
Cadmium	0.0762	J	0.469	mg/Kg	1	12/16/2011 07:04 AM
Chromium	1.34		0.469	mg/Kg	1	12/16/2011 07:04 AM
Lead	1.89		0.469	mg/Kg	1	12/16/2011 07:04 AM
Selenium	0.575		0.469	mg/Kg	1	12/16/2011 07:04 AM
Silver	U		0.469	mg/Kg	1	12/16/2011 07:04 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 03:04 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 03:04 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 03:04 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 03:04 PM
Surr: 1,2-Dichloroethane-d4	79.9		70-128	%REC	1	12/14/2011 03:04 PM
Surr: 4-Bromofluorobenzene	96.8		73-126	%REC	1	12/14/2011 03:04 PM
Surr: Dibromofluoromethane	92.5		71-128	%REC	1	12/14/2011 03:04 PM
Surr: Toluene-d8	98.2		73-127	%REC	1	12/14/2011 03:04 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	14.4		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW5-1 @ 26ft
Collection Date: 12/9/2011 12:35 PM

Work Order: 1112365
Lab ID: 1112365-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.58	µg/Kg	1	12/14/2011 07:21 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.334	J	0.480	mg/Kg	1	12/16/2011 07:10 AM
Barium	10.5		0.480	mg/Kg	1	12/16/2011 07:10 AM
Cadmium	0.0753	J	0.480	mg/Kg	1	12/16/2011 07:10 AM
Chromium	1.13		0.480	mg/Kg	1	12/16/2011 07:10 AM
Lead	1.91		0.480	mg/Kg	1	12/16/2011 07:10 AM
Selenium	0.637		0.480	mg/Kg	1	12/16/2011 07:10 AM
Silver	U		0.480	mg/Kg	1	12/16/2011 07:10 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 03:31 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 03:31 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 03:31 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 03:31 PM
Surr: 1,2-Dichloroethane-d4	80.1		70-128	%REC	1	12/14/2011 03:31 PM
Surr: 4-Bromofluorobenzene	97.4		73-126	%REC	1	12/14/2011 03:31 PM
Surr: Dibromofluoromethane	91.2		71-128	%REC	1	12/14/2011 03:31 PM
Surr: Toluene-d8	97.4		73-127	%REC	1	12/14/2011 03:31 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	3.26		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: RW5-1 @ 35.5ft
Collection Date: 12/9/2011 12:45 PM

Work Order: 1112365
Lab ID: 1112365-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/14/2011	Analyst: JCJ
Mercury	U		3.58	µg/Kg	1	12/14/2011 07:23 PM
METALS			SW6020		Prep Date: 12/15/2011	Analyst: IGF
Arsenic	0.400	J	0.465	mg/Kg	1	12/16/2011 07:16 AM
Barium	10.9		0.465	mg/Kg	1	12/16/2011 07:16 AM
Cadmium	0.0707	J	0.465	mg/Kg	1	12/16/2011 07:16 AM
Chromium	1.02		0.465	mg/Kg	1	12/16/2011 07:16 AM
Lead	1.36		0.465	mg/Kg	1	12/16/2011 07:16 AM
Selenium	0.423	J	0.465	mg/Kg	1	12/16/2011 07:16 AM
Silver	U		0.465	mg/Kg	1	12/16/2011 07:16 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/14/2011 03:59 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/14/2011 03:59 PM
Toluene	U		5.0	µg/Kg	1	12/14/2011 03:59 PM
Xylenes, Total	U		15	µg/Kg	1	12/14/2011 03:59 PM
Surr: 1,2-Dichloroethane-d4	80.9		70-128	%REC	1	12/14/2011 03:59 PM
Surr: 4-Bromofluorobenzene	98.8		73-126	%REC	1	12/14/2011 03:59 PM
Surr: Dibromofluoromethane	87.1		71-128	%REC	1	12/14/2011 03:59 PM
Surr: Toluene-d8	98.0		73-127	%REC	1	12/14/2011 03:59 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	13.1		0.0100	wt%	1	12/15/2011 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 27-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
Sample ID: Trip Blank 111411-28
Collection Date: 12/9/2011 02:12 PM

Work Order: 1112365
Lab ID: 1112365-09
Matrix:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	12/16/2011 06:52 PM
Ethylbenzene	U		5.0	µg/L	1	12/16/2011 06:52 PM
Toluene	U		5.0	µg/L	1	12/16/2011 06:52 PM
Xylenes, Total	U		15	µg/L	1	12/16/2011 06:52 PM
Surr: 1,2-Dichloroethane-d4	89.1		70-125	%REC	1	12/16/2011 06:52 PM
Surr: 4-Bromofluorobenzene	90.7		72-125	%REC	1	12/16/2011 06:52 PM
Surr: Dibromofluoromethane	92.8		71-125	%REC	1	12/16/2011 06:52 PM
Surr: Toluene-d8	96.8		75-125	%REC	1	12/16/2011 06:52 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112365
Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: **57604** Instrument ID **HG02** Method: **SW7471A**

MBLK	Sample ID: GBLKS4-121411-57604				Units: µg/Kg			Analysis Date: 12/14/2011 06:22 PM		
Client ID:	Run ID: HG02_111214A				SeqNo: 2628387			Prep Date: 12/14/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	3.3								

LCS	Sample ID: GLCSS4-121411-57604				Units: µg/Kg			Analysis Date: 12/14/2011 06:24 PM		
Client ID:	Run ID: HG02_111214A				SeqNo: 2628388			Prep Date: 12/14/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	352	3.3	333.3	0	106	85-115	0			

MS	Sample ID: 1112336-11AMS				Units: µg/Kg			Analysis Date: 12/14/2011 06:30 PM		
Client ID:	Run ID: HG02_111214A				SeqNo: 2628391			Prep Date: 12/14/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	467.3	3.5	354	174.9	82.6	85-115	0			S

MSD	Sample ID: 1112336-11AMSD				Units: µg/Kg			Analysis Date: 12/14/2011 06:32 PM		
Client ID:	Run ID: HG02_111214A				SeqNo: 2628392			Prep Date: 12/14/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	463	3.4	342.5	174.9	84.1	85-115	467.3	0.912	20	S

DUP	Sample ID: 1112336-11ADUP				Units: µg/Kg			Analysis Date: 12/14/2011 06:28 PM		
Client ID:	Run ID: HG02_111214A				SeqNo: 2628390			Prep Date: 12/14/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	175.3	3.4	0	0	0		174.9	0.221	20	

The following samples were analyzed in this batch:

1112365-01B	1112365-02B	1112365-03B
1112365-04B	1112365-05B	1112365-06B
1112365-07B	1112365-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112365
 Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: 57637 Instrument ID ICPMS03 Method: SW6020

MBLK Sample ID: **MBLKS2-121511-57637** Units: **mg/Kg** Analysis Date: **12/15/2011 09:37 PM**

Client ID: Run ID: **ICPMS03_111215A** SeqNo: **2630024** Prep Date: **12/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.50								
Barium	U	0.50								
Cadmium	U	0.50								
Chromium	U	0.50								
Lead	U	0.50								
Selenium	U	0.50								
Silver	U	0.50								

LCS Sample ID: **MLCSS2-121511-57637** Units: **mg/Kg** Analysis Date: **12/15/2011 09:44 PM**

Client ID: Run ID: **ICPMS03_111215A** SeqNo: **2630025** Prep Date: **12/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.524	0.50	10	0	95.2	80-120	0			
Barium	10.33	0.50	10	0	103	80-120	0			
Cadmium	10.39	0.50	10	0	104	80-120	0			
Chromium	9.512	0.50	10	0	95.1	80-120	0			
Lead	10.15	0.50	10	0	102	80-120	0			
Selenium	9.585	0.50	10	0	95.8	80-120	0			
Silver	9.247	0.50	10	0	92.5	80-120	0			

MS Sample ID: **1112412-21BMS** Units: **mg/Kg** Analysis Date: **12/15/2011 10:08 PM**

Client ID: Run ID: **ICPMS03_111215A** SeqNo: **2630029** Prep Date: **12/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.259	0.47	9.474	0.2807	94.8	75-125	0			
Barium	36.29	0.47	9.474	28.76	79.5	75-125	0			
Cadmium	9.616	0.47	9.474	0.02573	101	75-125	0			
Chromium	13.05	0.47	9.474	7.888	54.4	75-125	0			S
Lead	15.95	0.47	9.474	20.95	-52.7	75-125	0			S
Selenium	9.09	0.47	9.474	0.221	93.6	75-125	0			
Silver	8.842	0.47	9.474	-0.08362	94.2	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112365
 Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: 57637 Instrument ID ICPMS03 Method: SW6020

MSD		Sample ID: 1112412-21BMSD				Units: mg/Kg		Analysis Date: 12/15/2011 10:15 PM		
Client ID:		Run ID: ICPMS03_111215A				SeqNo: 2630030		Prep Date: 12/15/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.901	0.47	9.414	0.2807	91.6	75-125	9.259	3.94	25	
Barium	31.05	0.47	9.414	28.76	24.3	75-125	36.29	15.6	25	S
Cadmium	9.443	0.47	9.414	0.02573	100	75-125	9.616	1.82	25	
Chromium	10.65	0.47	9.414	7.888	29.3	75-125	13.05	20.2	25	S
Lead	12.1	0.47	9.414	20.95	-94	75-125	15.95	27.5	25	SR
Selenium	8.965	0.47	9.414	0.221	92.9	75-125	9.09	1.38	25	
Silver	8.591	0.47	9.414	-0.08362	92.1	75-125	8.842	2.89	25	

DUP		Sample ID: 1112412-21BDUP				Units: mg/Kg		Analysis Date: 12/15/2011 10:02 PM		
Client ID:		Run ID: ICPMS03_111215A				SeqNo: 2630028		Prep Date: 12/15/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2831	0.48	0	0	0	0-0	0.2807	0	25	J
Barium	24.18	0.48	0	0	0	0-0	28.76	17.3	25	
Cadmium	U	0.48	0	0	0	0-0	0.02573	0	25	
Chromium	3.204	0.48	0	0	0	0-0	7.888	84.5	25	R
Lead	4.542	0.48	0	0	0	0-0	20.95	129	25	R
Selenium	0.2663	0.48	0	0	0	0-0	0.221	0	25	J
Silver	U	0.48	0	0	0	0-0	-0.08362	0	25	

The following samples were analyzed in this batch:

1112365-01B	1112365-02B	1112365-03B
1112365-04B	1112365-05B	1112365-06B
1112365-07B	1112365-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112365
 Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: R120596 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS1-121411-R120596			Units: µg/Kg			Analysis Date: 12/14/2011 10:54 AM		
Client ID:		Run ID: VOA3_111214A			SeqNo: 2628048		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	39.31	0	50	0	78.6	70-128	0			
Surr: 4-Bromofluorobenzene	47.12	0	50	0	94.2	73-126	0			
Surr: Dibromofluoromethane	45.26	0	50	0	90.5	71-128	0			
Surr: Toluene-d8	48.87	0	50	0	97.7	73-127	0			

LCS		Sample ID: VLCSS1-121411-R120596			Units: µg/Kg			Analysis Date: 12/14/2011 08:36 AM		
Client ID:		Run ID: VOA3_111214A			SeqNo: 2628046		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.06	5.0	50	0	86.1	79-120	0			
Ethylbenzene	44.76	5.0	50	0	89.5	80-122	0			
Toluene	45.13	5.0	50	0	90.3	79-120	0			
Xylenes, Total	132.3	15	150	0	88.2	80-120	0			
Surr: 1,2-Dichloroethane-d4	40.99	0	50	0	82	70-128	0			
Surr: 4-Bromofluorobenzene	50.34	0	50	0	101	73-126	0			
Surr: Dibromofluoromethane	48.1	0	50	0	96.2	71-128	0			
Surr: Toluene-d8	49.26	0	50	0	98.5	73-127	0			

LCSD		Sample ID: VLCSDS1-121411-R120596			Units: µg/Kg			Analysis Date: 12/14/2011 09:58 AM		
Client ID:		Run ID: VOA3_111214A			SeqNo: 2628047		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.19	5.0	50	0	96.4	79-120	43.06	11.3	30	
Ethylbenzene	48.17	5.0	50	0	96.3	80-122	44.76	7.35	30	
Toluene	48.36	5.0	50	0	96.7	79-120	45.13	6.91	30	
Xylenes, Total	144.7	15	150	0	96.5	80-120	132.3	8.92	30	
Surr: 1,2-Dichloroethane-d4	40.89	0	50	0	81.8	70-128	40.99	0.245	30	
Surr: 4-Bromofluorobenzene	48.91	0	50	0	97.8	73-126	50.34	2.88	30	
Surr: Dibromofluoromethane	43.68	0	50	0	87.4	71-128	48.1	9.63	30	
Surr: Toluene-d8	49.03	0	50	0	98.1	73-127	49.26	0.458	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112365
 Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: R120596 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1112365-01AMS			Units: µg/Kg			Analysis Date: 12/14/2011 12:17 PM		
Client ID: RW3-2 @ 16-18ft		Run ID: VOA3_111214A			SeqNo: 2628050		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.03	5.0	50	0	92.1	79-120	0			
Ethylbenzene	46.99	5.0	50	0	94	80-122	0			
Toluene	46.74	5.0	50	0	93.5	79-120	0			
Xylenes, Total	137.3	15	150	0	91.5	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	40.2	0	50	0	80.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.52	0	50	0	97	73-126	0			
<i>Surr: Dibromofluoromethane</i>	42.29	0	50	0	84.6	71-128	0			
<i>Surr: Toluene-d8</i>	49.37	0	50	0	98.7	73-127	0			

MSD		Sample ID: 1112365-01AMSD			Units: µg/Kg			Analysis Date: 12/14/2011 12:45 PM		
Client ID: RW3-2 @ 16-18ft		Run ID: VOA3_111214A			SeqNo: 2628051		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.99	5.0	50	0	98	79-120	46.03	6.22	30	
Ethylbenzene	48.73	5.0	50	0	97.5	80-122	46.99	3.62	30	
Toluene	49.19	5.0	50	0	98.4	79-120	46.74	5.1	30	
Xylenes, Total	144	15	150	0	96	80-120	137.3	4.74	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	39.19	0	50	0	78.4	70-128	40.2	2.52	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.68	0	50	0	99.4	73-126	48.52	2.37	30	
<i>Surr: Dibromofluoromethane</i>	46.34	0	50	0	92.7	71-128	42.29	9.16	30	
<i>Surr: Toluene-d8</i>	48.86	0	50	0	97.7	73-127	49.37	1.04	30	

The following samples were analyzed in this batch:

1112365-01A	1112365-02A	1112365-03A
1112365-04A	1112365-05A	1112365-06A
1112365-07A	1112365-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112365
 Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: R120728 Instrument ID VOA1 Method: SW8260

MBLK		Sample ID: VBLKW-121611-R120728			Units: µg/L			Analysis Date: 12/16/2011 10:11 AM		
Client ID:		Run ID: VOA1_111216B			SeqNo: 2631676			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	46.1	5.0	50	0	92.2	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	45.04	5.0	50	0	90.1	72-125	0			
<i>Surr: Dibromofluoromethane</i>	45.67	5.0	50	0	91.3	71-125	0			
<i>Surr: Toluene-d8</i>	44.42	5.0	50	0	88.8	75-125	0			

LCS		Sample ID: VLCSW-121611-R120728			Units: µg/L			Analysis Date: 12/16/2011 09:45 AM		
Client ID:		Run ID: VOA1_111216B			SeqNo: 2631675			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.06	5.0	50	0	90.1	73-121	0			
Ethylbenzene	49.99	5.0	50	0	100	80-120	0			
Toluene	45.58	5.0	50	0	91.2	80-120	0			
Xylenes, Total	148	15	150	0	98.7	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	44.42	5.0	50	0	88.8	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.09	5.0	50	0	92.2	72-125	0			
<i>Surr: Dibromofluoromethane</i>	47.57	5.0	50	0	95.1	71-125	0			
<i>Surr: Toluene-d8</i>	46.26	5.0	50	0	92.5	75-125	0			

MS		Sample ID: 1112430-01AMS			Units: µg/L			Analysis Date: 12/16/2011 03:25 PM		
Client ID:		Run ID: VOA1_111216B			SeqNo: 2631679			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42.77	5.0	50	0	85.5	73-121	0			
Ethylbenzene	49.77	5.0	50	0	99.5	80-120	0			
Toluene	47.28	5.0	50	0	94.6	80-120	0			
Xylenes, Total	150.5	15	150	0	100	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	43.58	5.0	50	0	87.2	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.36	5.0	50	0	96.7	72-125	0			
<i>Surr: Dibromofluoromethane</i>	48.11	5.0	50	0	96.2	71-125	0			
<i>Surr: Toluene-d8</i>	48.14	5.0	50	0	96.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112365
Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: **R120728** Instrument ID **VOA1** Method: **SW8260**

MSD		Sample ID: 1112430-01AMSD			Units: µg/L			Analysis Date: 12/16/2011 03:51 PM		
Client ID:		Run ID: VOA1_111216B			SeqNo: 2631680		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.74	5.0	50	0	87.5	73-121	42.77	2.26	20	
Ethylbenzene	46.09	5.0	50	0	92.2	80-120	49.77	7.69	20	
Toluene	43.26	5.0	50	0	86.5	80-120	47.28	8.86	20	
Xylenes, Total	137.1	15	150	0	91.4	80-120	150.5	9.36	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	43.06	5.0	50	0	86.1	70-125	43.58	1.2	20	
<i>Surr: 4-Bromofluorobenzene</i>	45.78	5.0	50	0	91.6	72-125	48.36	5.47	20	
<i>Surr: Dibromofluoromethane</i>	46.71	5.0	50	0	93.4	71-125	48.11	2.94	20	
<i>Surr: Toluene-d8</i>	45.43	5.0	50	0	90.9	75-125	48.14	5.78	20	

The following samples were analyzed in this batch: 1112365-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112365
Project: CDOT Highway 6 Bridge

QC BATCH REPORT

Batch ID: **R120688** Instrument ID **Balance1** Method: **SW3550**

DUP	Sample ID: 1112380-01CDUP	Units: wt%					Analysis Date: 12/15/2011 03:20 PM				
Client ID:	Run ID: BALANCE1_111215G	SeqNo: 2630868			Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Percent Moisture	14.94	0.010	0	0	0	0-0	15.85	5.86	20		

The following samples were analyzed in this batch:

1112365-01B	1112365-02B	1112365-03B
1112365-04B	1112365-05B	1112365-06B
1112365-07B	1112365-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: CDOT Highway 6 Bridge
WorkOrder: 1112365

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
wt%	



Environmental

Chain of Custody Form

Page ___ of ___

COC ID: 48613

- CI +
- E +
- F +

1112365

OLSSON ASSOC - GOLDEN: Olsson Associates

Project: CDOT US 6 Bridges



ALS Project Manager:

Customer Information		Project Information		
Purchase Order		Project Name	CDOT Highway 6 Bridgework	A BTEX (8260)
Work Order		Project Number	011- 2359 200 200002	B Total Metals (6020/7000) RCRA8
Company Name	Olsson Associates	Bill To Company	Olsson Associates	C
Send Report To	James Hix	Invoice Attn	James Hix	D
Address	4690 Table Mountain Drive	Address	4690 Table Mountain Drive	E
	Suite 200		Suite 200	F
City/State/Zip	Golden, CO 80403	City/State/Zip	Golden, CO 80403	G
Phone	(303) 237-2072	Phone	(303) 237-2072	H
Fax	(303) 237-2659	Fax	(303) 237-2659	I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW3-2 @ 16-18ft	12/7/11	10:45	S			✓	✓									
2	RW3-2 @ 20-21.5ft	12/7/11	11:02	S			✓	✓									
3	RW2-1 @ 21.5-22ft	12/7/11	13:30	S			✓	✓									
4	RW2-1 @ 29-30ft	12/7/11	14:00	S			✓	✓									
5	RW1-2 @ 19ft	12/9/11	09:50	S			✓	✓									
6	RW1-2 @ 25ft	12/9/11	10:05	S			✓	✓									
7	RW5-1 @ 26ft	12/9/11	12:35	S			✓	✓									
8	RW5-1 @ 35.5ft	12/9/11	12:45	S			✓	✓									
9	111411-28 (Trip Blank)	12/9/11	14:12	W			✓										
10																	

Sampler(s) Please Print & Sign <i>James W. Hix</i> <i>James W. Hix</i>		Shipment Method <i>Fed-Ex</i>		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:		
Relinquished by: <i>James W. Hix</i>	Date: <i>12/9/11</i>	Time: <i>14:20</i>	Received by: <i>FedEx</i>		Notes: <i>10 Day TAT</i>					
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>JK 12.10.11 1050.</i>		Cooler ID: <i>3743</i>	Cooler Temp.:	QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035										

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **10-Dec-11 10:50**

Work Order: **1112365**

Received by: **PMG**

Checklist completed by Johanna B. Allen
eSignature

13-Dec-11
Date

Reviewed by: Patricia L. Lynch
eSignature

27-Dec-11
Date

Matrices: soil/water

Carrier name: ALS.HS

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.1 C 002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

3743

Date: 12/9/11
Name:
Company:

CUSTODY SEAL

Date: 12/09/11 Time: 14:20
Name: James Hix
Company: Olsson Assoc.

Seal Broken By:

12.10.11

Date:



ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 12/9/11
Name:
Company:

CUSTODY SEAL

Date: 12/9/11 Time: 14:20
Name: James Hix
Company: Olsson Associates

Seal Broken By:

Date:

12.10.11

129211
FedEx Tracking Number

898941675364

Sender's Name: James Hix

Phone: 303 589-1572
303 237 2072

Company: Olsson Associates

Address: 4690 Table Mountain Dr.

200
Dept./Floor/Suite/Room

Golden

State CO ZIP 80403

Our Internal Billing Reference 011-2359 200 200002



2J-Dec-2011

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: CDOT Highway 6 Bridge Work

Work Order: **1112485**

Dear James,

ALS Environmental received 3 samples on 14-Dec-2011 09:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Patricia L. Lynch".

Electronically approved by: Mary K. Knowles

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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Environmental ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Work Order: 1112485

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1112485-01	RW6-1 @ 26ft	Soil		12/12/2011 11:14	12/14/2011 09:10	<input type="checkbox"/>
1112485-02	RW6-1 @ 31.5ft	Soil		12/12/2011 11:25	12/14/2011 09:10	<input type="checkbox"/>
1112485-03	TB 111411-08	Water		12/13/2011 08:21	12/14/2011 09:10	<input type="checkbox"/>

ALS Environmental

Date: 29-Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Work Order: 1112485

Case Narrative

Batch 57708 Metals: MS/MSD is for an unrelated sample.

Batch 57753 Mercury: MS/MSD is for an unrelated sample.

ALS Environmental

Date: 2; -Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Sample ID: RW6-1@ 26ft
Collection Date: 12/12/2011 11:14 AM

Work Order: 1112485
Lab ID: 1112485-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/21/2011	Analyst: JCJ
Mercury		U	3.45	µg/Kg	1	12/21/2011 03:33 PM
METALS			SW6020		Prep Date: 12/19/2011	Analyst: IGF
Arsenic	0.916		0.491	mg/Kg	1	12/20/2011 10:13 AM
Barium	16.0		0.491	mg/Kg	1	12/20/2011 10:13 AM
Cadmium	U		0.491	mg/Kg	1	12/20/2011 10:13 AM
Chromium	1.12		0.491	mg/Kg	1	12/20/2011 10:13 AM
Lead	1.51		0.491	mg/Kg	1	12/20/2011 10:13 AM
Selenium	0.304	J	0.491	mg/Kg	1	12/20/2011 10:13 AM
Silver	U		0.491	mg/Kg	1	12/20/2011 10:13 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/16/2011 04:03 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/16/2011 04:03 PM
Toluene	U		5.0	µg/Kg	1	12/16/2011 04:03 PM
Xylenes, Total	U		15	µg/Kg	1	12/16/2011 04:03 PM
Surr: 1,2-Dichloroethane-d4	90.6		70-128	%REC	1	12/16/2011 04:03 PM
Surr: 4-Bromofluorobenzene	96.0		73-126	%REC	1	12/16/2011 04:03 PM
Surr: Dibromofluoromethane	86.7		71-128	%REC	1	12/16/2011 04:03 PM
Surr: Toluene-d8	94.9		73-127	%REC	1	12/16/2011 04:03 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	13.4		0.0100	wt%	1	12/19/2011 06:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 2; -Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Sample ID: RW6-1 @ 31.5ft
Collection Date: 12/12/2011 11:25 AM

Work Order: 1112485
Lab ID: 1112485-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY - SW7471B			SW7471A		Prep Date: 12/21/2011	Analyst: JCJ
Mercury	0.423	J	3.51	µg/Kg	1	12/21/2011 03:40 PM
METALS			SW6020		Prep Date: 12/19/2011	Analyst: IGF
Arsenic	0.547		0.469	mg/Kg	1	12/20/2011 10:20 AM
Barium	12.2		0.469	mg/Kg	1	12/20/2011 10:20 AM
Cadmium	U		0.469	mg/Kg	1	12/20/2011 10:20 AM
Chromium	1.82		0.469	mg/Kg	1	12/20/2011 10:20 AM
Lead	1.59		0.469	mg/Kg	1	12/20/2011 10:20 AM
Selenium	U		0.469	mg/Kg	1	12/20/2011 10:20 AM
Silver	U		0.469	mg/Kg	1	12/20/2011 10:20 AM
VOLATILES			SW8260			Analyst: WLR
Benzene	U		5.0	µg/Kg	1	12/16/2011 04:30 PM
Ethylbenzene	U		5.0	µg/Kg	1	12/16/2011 04:30 PM
Toluene	U		5.0	µg/Kg	1	12/16/2011 04:30 PM
Xylenes, Total	U		15	µg/Kg	1	12/16/2011 04:30 PM
Surr: 1,2-Dichloroethane-d4	90.8		70-128	%REC	1	12/16/2011 04:30 PM
Surr: 4-Bromofluorobenzene	95.9		73-126	%REC	1	12/16/2011 04:30 PM
Surr: Dibromofluoromethane	88.4		71-128	%REC	1	12/16/2011 04:30 PM
Surr: Toluene-d8	99.3		73-127	%REC	1	12/16/2011 04:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 2; -Dec-11

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Sample ID: TB 111411-08
Collection Date: 12/13/2011 08:21 AM

Work Order: 1112485
Lab ID: 1112485-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	12/18/2011 08:33 PM
Ethylbenzene	U		5.0	µg/L	1	12/18/2011 08:33 PM
Toluene	U		5.0	µg/L	1	12/18/2011 08:33 PM
Xylenes, Total	U		15	µg/L	1	12/18/2011 08:33 PM
Surr: 1,2-Dichloroethane-d4	86.6		70-125	%REC	1	12/18/2011 08:33 PM
Surr: 4-Bromofluorobenzene	90.9		72-125	%REC	1	12/18/2011 08:33 PM
Surr: Dibromofluoromethane	89.5		71-125	%REC	1	12/18/2011 08:33 PM
Surr: Toluene-d8	94.1		75-125	%REC	1	12/18/2011 08:33 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112485
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **57708** Instrument ID **ICPMS04** Method: **SW6020**

MBLK Sample ID: **MBLKS3-121911-57708** Units: **mg/Kg** Analysis Date: **12/20/2011 01:17 PM**

Client ID: Run ID: **ICPMS04_111219A** SeqNo: **2633966** Prep Date: **12/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.50								
Barium	U	0.50								
Cadmium	U	0.50								
Chromium	U	0.50								
Lead	U	0.50								
Selenium	U	0.50								
Silver	U	0.50								

LCS Sample ID: **MLCSS3-121911-57708** Units: **mg/Kg** Analysis Date: **12/20/2011 07:20 AM**

Client ID: Run ID: **ICPMS04_111219A** SeqNo: **2633328** Prep Date: **12/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.629	0.50	10	0	96.3	80-120	0			
Barium	10.36	0.50	10	0	104	80-120	0			
Cadmium	10.28	0.50	10	0	103	80-120	0			
Chromium	9.352	0.50	10	0	93.5	80-120	0			
Lead	10.81	0.50	10	0	108	80-120	0			
Selenium	9.161	0.50	10	0	91.6	80-120	0			
Silver	9.027	0.50	10	0	90.3	80-120	0			

MS Sample ID: **1112446-06CMS** Units: **mg/Kg** Analysis Date: **12/20/2011 08:56 AM**

Client ID: Run ID: **ICPMS04_111219A** SeqNo: **2633343** Prep Date: **12/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.983	0.45	8.955	1.633	93.2	75-125	0			
Barium	61.59	0.45	8.955	26.77	389	75-125	0			S
Cadmium	8.87	0.45	8.955	0.1083	97.8	75-125	0			
Chromium	11.53	0.45	8.955	2.452	101	75-125	0			
Lead	20.81	0.45	8.955	8.331	139	75-125	0			S
Selenium	8.447	0.45	8.955	0.1467	92.7	75-125	0			
Silver	9.018	0.45	8.955	0.00614	101	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112485
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **57708** Instrument ID **ICPMS04** Method: **SW6020**

MSD		Sample ID: 1112446-06CMSD				Units: mg/Kg		Analysis Date: 12/20/2011 09:03 AM		
Client ID:		Run ID: ICPMS04_111219A			SeqNo: 2633344		Prep Date: 12/19/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.24	0.44	8.875	1.633	97	75-125	9.983	2.54	25	
Barium	29.75	0.44	8.875	26.77	33.6	75-125	61.59	69.7	25	SR
Cadmium	9.198	0.44	8.875	0.1083	102	75-125	8.87	3.63	25	
Chromium	11.22	0.44	8.875	2.452	98.8	75-125	11.53	2.68	25	
Lead	22.66	0.44	8.875	8.331	162	75-125	20.81	8.52	25	S
Selenium	8.872	0.44	8.875	0.1467	98.3	75-125	8.447	4.91	25	
Silver	8.844	0.44	8.875	0.00614	99.6	75-125	9.018	1.94	25	

The following samples were analyzed in this batch:

1112485-01B	1112485-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112485
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: 57753 Instrument ID HG02 Method: SW7471A

MBLK	Sample ID: GBLKS1-122111-57753	Units: µg/Kg					Analysis Date: 12/21/2011 01:55 PM				
Client ID:	Run ID: HG02_111221A	SeqNo: 2635609			Prep Date: 12/21/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	U	3.3									

LCS	Sample ID: GLCSS1-122111-57753	Units: µg/Kg					Analysis Date: 12/21/2011 01:57 PM				
Client ID:	Run ID: HG02_111221A	SeqNo: 2635610			Prep Date: 12/21/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	344	3.3	333.3	0	103	85-115	0				

MS	Sample ID: 1112503-01AMS	Units: µg/Kg					Analysis Date: 12/21/2011 02:28 PM				
Client ID:	Run ID: HG02_111221A	SeqNo: 2635634			Prep Date: 12/21/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	847	3.6	355.9	388	129	85-115	0			SE	

MSD	Sample ID: 1112503-01AMSD	Units: µg/Kg					Analysis Date: 12/21/2011 02:51 PM				
Client ID:	Run ID: HG02_111221A	SeqNo: 2635636			Prep Date: 12/21/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	771.4	3.6	357.1	388	107	85-115	847	9.34	20	E	

DUP	Sample ID: 1112503-01ADUP	Units: µg/Kg					Analysis Date: 12/21/2011 02:05 PM				
Client ID:	Run ID: HG02_111221A	SeqNo: 2635612			Prep Date: 12/21/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	382.8	3.6	0	0	0		388	1.35	20		

The following samples were analyzed in this batch: 1112485-01B 1112485-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112485
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: R120731 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS1-121811-R120731			Units: µg/Kg			Analysis Date: 12/16/2011 03:36 PM		
Client ID:		Run ID: VOA3_111216A			SeqNo: 2631780		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	42.56	0	50	0	85.1	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.56	0	50	0	97.1	73-126	0			
<i>Surr: Dibromofluoromethane</i>	43.82	0	50	0	87.6	71-128	0			
<i>Surr: Toluene-d8</i>	48.21	0	50	0	96.4	73-127	0			

LCS		Sample ID: VLCSS1-121811-R120731			Units: µg/Kg			Analysis Date: 12/16/2011 02:13 PM		
Client ID:		Run ID: VOA3_111216A			SeqNo: 2631777		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.74	5.0	50	0	99.5	79-120	0			
Ethylbenzene	45.64	5.0	50	0	91.3	80-122	0			
Toluene	44.11	5.0	50	0	88.2	79-120	0			
Xylenes, Total	129.8	15	150	0	86.6	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	51.03	0	50	0	102	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.91	0	50	0	97.8	73-126	0			
<i>Surr: Dibromofluoromethane</i>	47.97	0	50	0	95.9	71-128	0			
<i>Surr: Toluene-d8</i>	49.09	0	50	0	98.2	73-127	0			

LCSD		Sample ID: VLCSDS1-121811-R120731			Units: µg/Kg			Analysis Date: 12/16/2011 02:41 PM		
Client ID:		Run ID: VOA3_111216A			SeqNo: 2631778		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.12	5.0	50	0	104	79-120	49.74	4.67	30	
Ethylbenzene	48.58	5.0	50	0	97.2	80-122	45.64	6.24	30	
Toluene	46.65	5.0	50	0	93.3	79-120	44.11	5.59	30	
Xylenes, Total	140.4	15	150	0	93.6	80-120	129.8	7.78	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	51	0	50	0	102	70-128	51.03	0.0593	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.54	0	50	0	99.1	73-126	48.91	1.28	30	
<i>Surr: Dibromofluoromethane</i>	47.95	0	50	0	95.9	71-128	47.97	0.0241	30	
<i>Surr: Toluene-d8</i>	48.15	0	50	0	96.3	73-127	49.09	1.93	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112485
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: R120731 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1112485-01AMS			Units: µg/Kg			Analysis Date: 12/16/2011 04:58 PM		
Client ID: RW6-1 @ 26ft		Run ID: VOA3_111216A			SeqNo: 2631785		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.45	5.0	50	0	94.9	79-120	0			
Ethylbenzene	45.51	5.0	50	0	91	80-122	0			
Toluene	45	5.0	50	0	90	79-120	0			
Xylenes, Total	126.3	15	150	0	84.2	80-120	0			
Surr: 1,2-Dichloroethane-d4	49.14	0	50	0	98.3	70-128	0			
Surr: 4-Bromofluorobenzene	49.7	0	50	0	99.4	73-126	0			
Surr: Dibromofluoromethane	44.64	0	50	0	89.3	71-128	0			
Surr: Toluene-d8	50.77	0	50	0	102	73-127	0			

MSD		Sample ID: 1112485-01AMSD			Units: µg/Kg			Analysis Date: 12/16/2011 05:25 PM		
Client ID: RW6-1 @ 26ft		Run ID: VOA3_111216A			SeqNo: 2631786		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.81	5.0	50	0	99.6	79-120	47.45	4.85	30	
Ethylbenzene	48.89	5.0	50	0	97.8	80-122	45.51	7.18	30	
Toluene	47.67	5.0	50	0	95.3	79-120	45	5.77	30	
Xylenes, Total	135.2	15	150	0	90.2	80-120	126.3	6.87	30	
Surr: 1,2-Dichloroethane-d4	47.17	0	50	0	94.3	70-128	49.14	4.09	30	
Surr: 4-Bromofluorobenzene	48.72	0	50	0	97.4	73-126	49.7	2	30	
Surr: Dibromofluoromethane	49.11	0	50	0	98.2	71-128	44.64	9.53	30	
Surr: Toluene-d8	49.95	0	50	0	99.9	73-127	50.77	1.62	30	

The following samples were analyzed in this batch:

1112485-01A	1112485-02A
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Client: Olsson Associates
 Work Order: 1112485
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: R120733 Instrument ID VOA1 Method: SW8260

MBLK		Sample ID: VBLKW-121811-R120733			Units: µg/L			Analysis Date: 12/18/2011 12:07 PM		
Client ID:		Run ID: VOA1_111218A			SeqNo: 2631897			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	44.5	5.0	50	0	89	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.61	5.0	50	0	93.2	72-125	0			
<i>Surr: Dibromofluoromethane</i>	45.79	5.0	50	0	91.6	71-125	0			
<i>Surr: Toluene-d8</i>	45.19	5.0	50	0	90.4	75-125	0			

LCS		Sample ID: VLCSW-121811-R120733			Units: µg/L			Analysis Date: 12/18/2011 11:17 AM		
Client ID:		Run ID: VOA1_111218A			SeqNo: 2631896			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.32	5.0	50	0	92.6	73-121	0			
Ethylbenzene	53.79	5.0	50	0	108	80-120	0			
Toluene	49.49	5.0	50	0	99	80-120	0			
Xylenes, Total	146	15	150	0	97.3	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	46	5.0	50	0	92	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.8	5.0	50	0	93.6	72-125	0			
<i>Surr: Dibromofluoromethane</i>	47.96	5.0	50	0	95.9	71-125	0			
<i>Surr: Toluene-d8</i>	47.98	5.0	50	0	96	75-125	0			

MS		Sample ID: 1112250-09AMS			Units: µg/L			Analysis Date: 12/18/2011 02:39 PM		
Client ID:		Run ID: VOA1_111218A			SeqNo: 2631905			Prep Date:		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	495.2	50	500	18.33	95.4	73-121	0			
Ethylbenzene	501.1	50	500	0	100	80-120	0			
Toluene	472.7	50	500	0	94.5	80-120	0			
Xylenes, Total	1530	150	1500	0	102	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	423.7	50	500	0	84.7	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	467.7	50	500	0	93.5	72-125	0			
<i>Surr: Dibromofluoromethane</i>	457	50	500	0	91.4	71-125	0			
<i>Surr: Toluene-d8</i>	470.6	50	500	0	94.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112485
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **R120733** Instrument ID **VOA1** Method: **SW8260**

MSD		Sample ID: 1112250-09AMSD			Units: µg/L			Analysis Date: 12/18/2011 03:05 PM		
Client ID:		Run ID: VOA1_111218A			SeqNo: 2631907		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	455.3	50	500	18.33	87.4	73-121	495.2	8.39	20	
Ethylbenzene	499.5	50	500	0	99.9	80-120	501.1	0.322	20	
Toluene	454.2	50	500	0	90.8	80-120	472.7	3.98	20	
Xylenes, Total	1476	150	1500	0	98.4	80-120	1530	3.56	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	457.6	50	500	0	91.5	70-125	423.7	7.69	20	
<i>Surr: 4-Bromofluorobenzene</i>	463.8	50	500	0	92.8	72-125	467.7	0.836	20	
<i>Surr: Dibromofluoromethane</i>	472.6	50	500	0	94.5	71-125	457	3.37	20	
<i>Surr: Toluene-d8</i>	448.7	50	500	0	89.7	75-125	470.6	4.76	20	

The following samples were analyzed in this batch: 1112485-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112485
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **R120806** Instrument ID **Balance1** Method: **SW3550**

DUP	Sample ID: 1112453-19ADUP	Units: wt%	Analysis Date: 12/19/2011 06:00 PM							
Client ID:	Run ID: BALANCE1_111219D	SeqNo: 2633643	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	51.86	0.010	0	0	0	0-0	53.83	3.74	20	

The following samples were analyzed in this batch:

1112485-01B

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
WorkOrder: 1112485

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
wt%	



Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 48612

1112485

OLSSON ASSOC - GOLDEN: Olsson Associates

Project: CDOT US 6 Bridges

ALS Project Manager:



Customer Information

Project Information

Purchase Order		Project Name	CDOT Highway 6 Bridgework	A	BICA (0200)
Work Order	Quote ID# 5134	Project Number	011-2359 200 200002	B	Total Metals (6020/7000) RCRA8
Company Name	Olsson Associates	Bill To Company	Olsson Associates	C	
Send Report To	James Hix	Invoice Attn	James Hix	D	
Address	4690 Table Mountain Drive Suite 200	Address	4690 Table Mountain Drive Suite 200	E	
				F	
City/State/Zip	Golden, CO 80403	City/State/Zip	Golden, CO 80403	G	
Phone	(303) 237-2072	Phone	(303) 237-2072	H	
Fax	(303) 237-2659	Fax	(303) 237-2659	I	
e-Mail Address	j.hix@oaconsulting.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW6-1 @ 26 ft	12/12/11	11:14	S	ice	2	✓	✓									
2	RW6-1 @ 31.5 ft	12/12/11	11:25	S	ice	2	✓	✓									
3	TB 111411-08	12/13/11	8:21	W	ice	2	✓										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: James W. Hix James W. Hix Shipment Method: Fed-Ex Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: James Hix Date: 12/13/11 Time: 08:30 Received by: Fed-Ex Notes: 10 Day TAT

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): 12-14-11 0910 Cooler ID: 3480 Cooler Temp: _____ QC Package: (Check One Box Below) Level II Std QC TRRP Checklist Level III Std QC/Raw Data TRRP Level IV Level IV SW846/CLP Other / EDD _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **14-Dec-11 09:10**

Work Order: **1112485**

Received by: **PMG**

Checklist completed by Johanna B. Allen 16-Dec-11
eSignature Date

Reviewed by: Patricia L. Lynch 16-Dec-11
eSignature Date

Matrices: soil/water

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.4 C 002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

3480

Date:
Name:
Company:

CUSTODY SEAL

Date: 12/13/11 Time: 0830
Name: James Hix
Company: Olsson Assoc

Seal Broken By:

JH
Date: 12/14/11

... THIS PORTION CAN BE REMOVED FOR IDENTIFICATION PURPOSES.

Date: 12/13/11 FedEx Tracking Number: 2 898941675375

Sender's Name: James Hix Phone: 303 237-2072

Company: Olsson Associates

Address: 4690 Table Mountain Drive Dept./Floor/Suite/Room: 200

City: Golden State: CO ZIP: 80403

Our Internal Billing Reference: 011-2359-200 200002



09-Jan-2012

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: CDOT Highway 6 Bridge Work

Work Order: **1112719**

Dear James,

ALS Environmental received 2 samples on 22-Dec-2011 10:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Patricia L. Lynch".

Electronically approved by: Yvan K. Ty

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#T UR XS#K VD /#P R US##Sdu#r i#khd#OV#Dderudaru|#T urxs##D #P dp seha#Eurkhu#Op l#hg#P rp sdg |

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Work Order: 1112719

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1112719-01	RW 7-1@18ft	Soil		12/20/2011 12:50	12/22/2011 10:45	<input type="checkbox"/>
1112719-02	RW 7-1@30ft	Soil		12/20/2011 13:20	12/22/2011 10:45	<input type="checkbox"/>

ALS Environmental

Date: 09-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Work Order: 1112719

Case Narrative

Batch 57849 Metals: MS/MSD is for an unrelated sample.

ALS Environmental

Date: 09-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Sample ID: RW 7-1@18ft
Collection Date: 12/20/2011 12:50 PM

Work Order: 1112719
Lab ID: 1112719-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	U		3.45 µg/Kg		1	12/27/2011	12/27/2011 03:40 PM
METALS			SW6020				Analyst: IGF
Arsenic	0.879		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Barium	15.4		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Cadmium	U		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Chromium	1.38		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Lead	1.87		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Selenium	U		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
Silver	U		0.480 mg/Kg		1	12/28/2011	12/30/2011 06:26 AM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0 µg/Kg		1		12/30/2011 06:20 PM
Ethylbenzene	U		5.0 µg/Kg		1		12/30/2011 06:20 PM
Toluene	U		5.0 µg/Kg		1		12/30/2011 06:20 PM
Xylenes, Total	U		15 µg/Kg		1		12/30/2011 06:20 PM
Surr: 1,2-Dichloroethane-d4	99.5		70-128 %REC		1		12/30/2011 06:20 PM
Surr: 4-Bromofluorobenzene	99.0		73-126 %REC		1		12/30/2011 06:20 PM
Surr: Dibromofluoromethane	94.4		71-128 %REC		1		12/30/2011 06:20 PM
Surr: Toluene-d8	96.6		73-127 %REC		1		12/30/2011 06:20 PM
MOISTURE			SW3550				Analyst: RPM
Percent Moisture	3.86		0.0100 wt%		1		1/6/2012 06:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 09-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
Sample ID: RW 7-1@30ft
Collection Date: 12/20/2011 01:20 PM

Work Order: 1112719
Lab ID: 1112719-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	8.24		3.51	µg/Kg	1	12/27/2011	12/27/2011 03:42 PM
METALS			SW6020				Analyst: IGF
Arsenic	0.900		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Barium	93.5		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Cadmium	0.0960	J	0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Chromium	3.34		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Lead	8.23		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Selenium	U		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
Silver	U		0.463	mg/Kg	1	12/28/2011	12/30/2011 08:18 AM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/Kg	1		12/30/2011 06:47 PM
Ethylbenzene	U		5.0	µg/Kg	1		12/30/2011 06:47 PM
Toluene	0.97	J	5.0	µg/Kg	1		12/30/2011 06:47 PM
Xylenes, Total	U		15	µg/Kg	1		12/30/2011 06:47 PM
Surr: 1,2-Dichloroethane-d4	103		70-128	%REC	1		12/30/2011 06:47 PM
Surr: 4-Bromofluorobenzene	98.1		73-126	%REC	1		12/30/2011 06:47 PM
Surr: Dibromofluoromethane	96.1		71-128	%REC	1		12/30/2011 06:47 PM
Surr: Toluene-d8	97.9		73-127	%REC	1		12/30/2011 06:47 PM
MOISTURE			SW3550				Analyst: RPM
Percent Moisture	18.8		0.0100	wt%	1		1/6/2012 06:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 09-Jan-12

Client: Olsson Associates
Work Order: 1112719
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **57812** Instrument ID **HG02** Method: **SW7471A**

MBLK	Sample ID: GBLKS1-122711-57812				Units: µg/Kg			Analysis Date: 12/27/2011 02:22 PM		
Client ID:	Run ID: HG02_111227A				SeqNo: 2638534		Prep Date: 12/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	3.3								

LCS	Sample ID: GLCSS1-122711-57812				Units: µg/Kg			Analysis Date: 12/27/2011 02:24 PM		
Client ID:	Run ID: HG02_111227A				SeqNo: 2638535		Prep Date: 12/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	342	3.3	333.3	0	103	85-115	0			

MS	Sample ID: 1112721-09AMS				Units: µg/Kg			Analysis Date: 12/27/2011 02:34 PM		
Client ID:	Run ID: HG02_111227A				SeqNo: 2638538		Prep Date: 12/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	574.9	3.5	348.4	263.9	89.3	85-115	0			

MSD	Sample ID: 1112721-09AMSD				Units: µg/Kg			Analysis Date: 12/27/2011 02:36 PM		
Client ID:	Run ID: HG02_111227A				SeqNo: 2638539		Prep Date: 12/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	575	3.4	341.9	263.9	91	85-115	574.9	0.0226	20	

DUP	Sample ID: 1112721-09ADUP				Units: µg/Kg			Analysis Date: 12/27/2011 02:31 PM		
Client ID:	Run ID: HG02_111227A				SeqNo: 2638537		Prep Date: 12/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	258	3.5	0	0	0		263.9	2.23	20	

The following samples were analyzed in this batch:

1112719-01B	1112719-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112719
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **57849** Instrument ID **ICPMS04** Method: **SW6020**

MBLK Sample ID: **MBLKS2-122811-57849** Units: **mg/Kg** Analysis Date: **12/28/2011 11:59 PM**

Client ID: Run ID: **ICPMS04_111227A** SeqNo: **2640876** Prep Date: **12/28/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.50								
Cadmium	U	0.50								
Chromium	U	0.50								
Lead	U	0.50								
Selenium	U	0.50								

MBLK Sample ID: **MBLKS2-122811-57849** Units: **mg/Kg** Analysis Date: **12/29/2011 07:03 PM**

Client ID: Run ID: **ICPMS04_111229A** SeqNo: **2642145** Prep Date: **12/28/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.50								
Silver	U	0.50								

LCS Sample ID: **MLCSS2-122811-57849** Units: **mg/Kg** Analysis Date: **12/29/2011 12:05 AM**

Client ID: Run ID: **ICPMS04_111227A** SeqNo: **2640877** Prep Date: **12/28/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	9.992	0.50	10	0	99.9	80-120	0			
Cadmium	9.924	0.50	10	0	99.2	80-120	0			
Chromium	9.099	0.50	10	0	91	80-120	0			
Lead	10.32	0.50	10	0	103	80-120	0			
Selenium	8.912	0.50	10	0	89.1	80-120	0			

LCS Sample ID: **MLCSS2-122811-57849** Units: **mg/Kg** Analysis Date: **12/29/2011 02:42 PM**

Client ID: Run ID: **ICPMS04_111229A** SeqNo: **2641709** Prep Date: **12/28/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.15	0.50	10	0	101	80-120	0			
Silver	8.958	0.50	10	0	89.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112719
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: 57849 Instrument ID ICPMS04 Method: SW6020

MS		Sample ID: 1112774-04AMS				Units: mg/Kg		Analysis Date: 12/29/2011 03:48 AM		
Client ID:		Run ID: ICPMS04_111227A				SeqNo: 2640912		Prep Date: 12/28/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.81	0.46	9.274	1.369	80.2	75-125	0			
Barium	48.12	0.46	9.274	46.77	14.6	75-125	0			SO
Cadmium	8.026	0.46	9.274	0.02746	86.2	75-125	0			
Chromium	11.5	0.46	9.274	4.04	80.4	75-125	0			
Lead	13.29	0.46	9.274	5.659	82.3	75-125	0			
Selenium	7.453	0.46	9.274	0.4762	75.2	75-125	0			
Silver	5.76	0.46	9.274	0.0133	62	75-125	0			S

MSD		Sample ID: 1112774-04AMSD				Units: mg/Kg		Analysis Date: 12/29/2011 03:55 AM		
Client ID:		Run ID: ICPMS04_111227A				SeqNo: 2640913		Prep Date: 12/28/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.599	0.46	9.223	1.369	78.4	75-125	8.81	2.43	25	
Barium	50.04	0.46	9.223	46.77	35.5	75-125	48.12	3.92	25	SO
Cadmium	7.94	0.46	9.223	0.02746	85.8	75-125	8.026	1.07	25	
Chromium	11.49	0.46	9.223	4.04	80.7	75-125	11.5	0.111	25	
Lead	13.28	0.46	9.223	5.659	82.6	75-125	13.29	0.0967	25	
Selenium	7.51	0.46	9.223	0.4762	76.3	75-125	7.453	0.762	25	
Silver	5.991	0.46	9.223	0.0133	64.8	75-125	5.76	3.95	25	S

DUP		Sample ID: 1112774-04ADUP				Units: mg/Kg		Analysis Date: 12/29/2011 03:42 AM		
Client ID:		Run ID: ICPMS04_111227A				SeqNo: 2640911		Prep Date: 12/28/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.268	0.47	0	0	0	0-0	1.369	7.63	25	
Barium	44.57	0.47	0	0	0	0-0	46.77	4.82	25	
Cadmium	U	0.47	0	0	0	0-0	0.02746	0	25	
Chromium	4.153	0.47	0	0	0	0-0	4.04	2.75	25	
Lead	5.655	0.47	0	0	0	0-0	5.659	0.0592	25	
Selenium	0.4132	0.47	0	0	0	0-0	0.4762	0	25	J
Silver	U	0.47	0	0	0	0-0	0.0133	0	25	

The following samples were analyzed in this batch: 1112719-01B 1112719-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112719
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: R121198 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS-123011-R121198			Units: µg/Kg			Analysis Date: 12/30/2011 12:01 PM		
Client ID:		Run ID: VOA3_111230A			SeqNo: 2642923		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	51.39	0	50	0	103	70-128	0			
Surr: 4-Bromofluorobenzene	50.77	0	50	0	102	73-126	0			
Surr: Dibromofluoromethane	48.66	0	50	0	97.3	71-128	0			
Surr: Toluene-d8	50.38	0	50	0	101	73-127	0			

LCS		Sample ID: VLCSS-123011-R121198			Units: µg/Kg			Analysis Date: 12/30/2011 10:40 AM		
Client ID:		Run ID: VOA3_111230A			SeqNo: 2642919		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.29	5.0	50	0	101	79-120	0			
Ethylbenzene	51.45	5.0	50	0	103	80-122	0			
Toluene	52.6	5.0	50	0	105	79-120	0			
Xylenes, Total	153.9	15	150	0	103	80-120	0			
Surr: 1,2-Dichloroethane-d4	50.64	0	50	0	101	70-128	0			
Surr: 4-Bromofluorobenzene	51.66	0	50	0	103	73-126	0			
Surr: Dibromofluoromethane	54.99	0	50	0	110	71-128	0			
Surr: Toluene-d8	50.72	0	50	0	101	73-127	0			

LCSD		Sample ID: VLCSDS-123011-R121198			Units: µg/Kg			Analysis Date: 12/30/2011 11:07 AM		
Client ID:		Run ID: VOA3_111230A			SeqNo: 2642921		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.32	5.0	50	0	101	79-120	50.29	0.0659	30	
Ethylbenzene	51.53	5.0	50	0	103	80-122	51.45	0.164	30	
Toluene	52.21	5.0	50	0	104	79-120	52.6	0.73	30	
Xylenes, Total	154.9	15	150	0	103	80-120	153.9	0.622	30	
Surr: 1,2-Dichloroethane-d4	51.8	0	50	0	104	70-128	50.64	2.26	30	
Surr: 4-Bromofluorobenzene	51.87	0	50	0	104	73-126	51.66	0.389	30	
Surr: Dibromofluoromethane	50	0	50	0	100	71-128	54.99	9.5	30	
Surr: Toluene-d8	52.78	0	50	0	106	73-127	50.72	3.98	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1112719
 Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: R121198 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1112779-04ZMS			Units: µg/Kg			Analysis Date: 12/30/2011 01:22 PM		
Client ID:		Run ID: VOA3_111230A			SeqNo: 2643110		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.14	5.0	50	0	112	79-120	0			
Ethylbenzene	53.47	5.0	50	0	107	80-122	0			
Toluene	56.98	5.0	50	1.784	110	79-120	0			
Xylenes, Total	160	15	150	0	107	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	51.18	0	50	0	102	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.32	0	50	0	96.6	73-126	0			
<i>Surr: Dibromofluoromethane</i>	45.56	0	50	0	91.1	71-128	0			
<i>Surr: Toluene-d8</i>	50.83	0	50	0	102	73-127	0			

MSD		Sample ID: 1112779-04ZMSD			Units: µg/Kg			Analysis Date: 12/30/2011 01:49 PM		
Client ID:		Run ID: VOA3_111230A			SeqNo: 2643111		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.91	5.0	50	0	114	79-120	56.14	1.35	30	
Ethylbenzene	53.27	5.0	50	0	107	80-122	53.47	0.366	30	
Toluene	58.85	5.0	50	1.784	114	79-120	56.98	3.23	30	
Xylenes, Total	160.1	15	150	0	107	80-120	160	0.0479	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	50.42	0	50	0	101	70-128	51.18	1.48	30	
<i>Surr: 4-Bromofluorobenzene</i>	48.73	0	50	0	97.5	73-126	48.32	0.843	30	
<i>Surr: Dibromofluoromethane</i>	46.4	0	50	0	92.8	71-128	45.56	1.83	30	
<i>Surr: Toluene-d8</i>	52.35	0	50	0	105	73-127	50.83	2.94	30	

The following samples were analyzed in this batch:

1112719-01A	1112719-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1112719
Project: CDOT Highway 6 Bridge Work

QC BATCH REPORT

Batch ID: **R121503** Instrument ID **Balance1** Method: **SW3550**

DUP Sample ID: **1201109-06ADUP** Units: **wt%** Analysis Date: **1/6/2012 06:30 PM**

Client ID: Run ID: **BALANCE1_120106C** SeqNo: **2649929** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	24.72	0.010	0	0	0	0-0	25.33	2.44	20	

The following samples were analyzed in this batch: 1112719-01B 1112719-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: CDOT Highway 6 Bridge Work
WorkOrder: 1112719

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
mg/Kg	Milligrams per Kilogram
wt%	

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **22-Dec-11 10:45**

Work Order: **1112719**

Received by: **PMG**

Checklist completed by Robert D. Harris 23-Dec-11
eSignature Date

Reviewed by: Patricia L. Lynch 27-Dec-11
eSignature Date

Matrices: soils

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 3.7c 002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

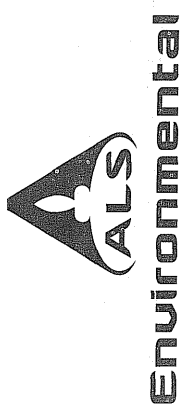
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



OLSSON ASSOC - GOLDEN: Olsson Associates
 Project: CDOT US 6 Bridges

Page of
 COC ID: 48614



ALS Project Manager:

Customer Information				Project Information			
Purchase Order	Project Name	CDOT Highway 6 Bridgework	A	BTEX (6260)			
Work Order	Project Number	011-2359 200 200002	B	Total Metals (6020/7000) RCRA8			
Company Name	Bill To Company	Olsson Associates	C				
Send Report To	Invoice Attn	James Hix	D				
Address	Address	4690 Table Mountain Drive Suite 200	E				
City/State/Zip	City/State/Zip	Golden, CO 80403	F				
Phone	Phone	(303) 237-2072	G				
Fax	Fax	(303) 237-2659	H				
e-Mail Address	e-Mail Address		I				
			J				

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW 7-1 @ 18 ft	12/20/11	12:50	S	Next	2	✓	✓									
2	RW 7-1 @ 30 ft	12/20/11	13:20	S	Next	2	✓	✓									
3	Frip Blank - just 12/21/11	12/20/11		W	ice	2	✓	✓									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
				<input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> Other			
Relinquished by:	Date:	Time:	Received by:	Notes: 10 Day TAT			
James W. Hix	12/21/11	09:34	J Fed-Ex				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
			J 12-22-11 10:45			<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW646/CLP <input type="checkbox"/> Other / EDD	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input type="checkbox"/> TRRP Check List <input type="checkbox"/> TRRP Level IV	
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other
						8-4°C	9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information provided is for informational purposes only.

From: (303) 237-2072
Mary Lou Lazo James Hix
Olsson Associates
4690 Table Mountain Dr
SUITE 200
Golden, CO 80403

Origin ID: WHHA



J11201108050225

Ship Date: 21DEC11
Act/Wgt: 11.0 LB
CAD: 5396423/INET3210

Delivery Address Bar Code



SHIP TO: (281) 530-5656
Sample Receiving
ALS Laboratory Group
10450 STANCLIFF RD STE 210

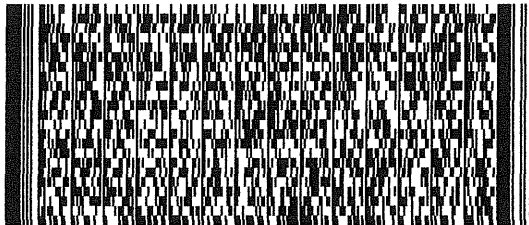
BILL SENDER

Ref # Project ???? James Hix
Invoice #
PO #
Dept #

HOUSTON, TX 77099

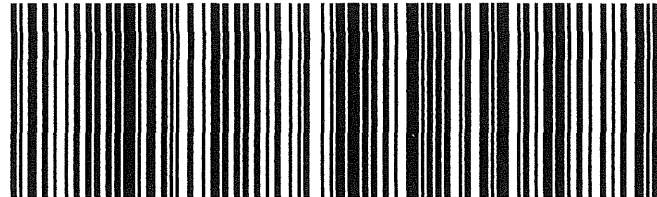
THU - 22 DEC A2
PRIORITY OVERNIGHT

TRK# 7930 4396 2024
0201



AB SGRA

77099
TX-US
IAH



50FG1R59F/IF5F4

After printing this label:

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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ATTACHMENT B
GROUNDWATER SAMPLE
ANALYTICAL RESULTS



18-Jan-2012

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: CDOT Highway 6 Bridgework

Work Order: **1201112**

Dear James,

ALS Environmental received 8 samples on 05-Jan-2012 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Yvan K. Ty

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#T UR XS#K VD /#P R US##Sdu#r i#khd#OV#Dderudaru|#T urxs##D #P dp seha#Eurkhu#Op l#hg#P rp sdg |

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Work Order: 1201112

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1201112-01	RW6-1	Water		1/4/2012 12:20	1/5/2012 09:00	<input type="checkbox"/>
1201112-02	RW7-1	Water		1/4/2012 12:50	1/5/2012 09:00	<input type="checkbox"/>
1201112-03	RW3-2	Water		1/4/2012 10:30	1/5/2012 09:00	<input type="checkbox"/>
1201112-04	RW2-1	Water		1/4/2012 11:00	1/5/2012 09:00	<input type="checkbox"/>
1201112-05	RW1-2	Water		1/4/2012 11:30	1/5/2012 09:00	<input type="checkbox"/>
1201112-06	RW5-1	Water		1/4/2012 12:00	1/5/2012 09:00	<input type="checkbox"/>
1201112-07	Trip Blank - 111411-23	Water		1/5/2012 18:30	1/5/2012 09:00	<input type="checkbox"/>
1201112-08	Trip Blank - 111411-24	Water		1/4/2012	1/5/2012 09:00	<input type="checkbox"/>

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Work Order: 1201112

Case Narrative

The data for pH is flagged with H indicating that the holding time was exceeded. The holding time for pH is "immediate" per 40CFR136.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW6-1
Collection Date: 1/4/2012 12:20 PM

Work Order: 1201112
Lab ID: 1201112-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY						
Mercury	0.00178		SW7470 0.000200	mg/L	Prep Date: 1/16/2012 1	Analyst: JCJ 1/16/2012 03:32 PM
METALS						
Arsenic	0.143		SW6020 0.0500	mg/L	Prep Date: 1/10/2012 10	Analyst: ALR 1/11/2012 12:04 AM
Barium	4.20		0.0500	mg/L	10	1/11/2012 12:04 AM
Cadmium	0.00930		0.00200	mg/L	1	1/12/2012 06:01 AM
Chromium	0.549		0.0500	mg/L	10	1/11/2012 12:04 AM
Lead	0.425		0.0500	mg/L	10	1/11/2012 12:04 AM
Selenium	0.0708		0.0500	mg/L	10	1/11/2012 12:04 AM
Silver	0.00232	J	0.00500	mg/L	1	1/12/2012 06:01 AM
VOLATILES						
Benzene	U		SW8260 5.0	µg/L	1	Analyst: PC 1/9/2012 03:07 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 03:07 PM
Toluene	U		5.0	µg/L	1	1/9/2012 03:07 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 03:07 PM
Surr: 1,2-Dichloroethane-d4	107		70-125	%REC	1	1/9/2012 03:07 PM
Surr: 4-Bromofluorobenzene	96.1		72-125	%REC	1	1/9/2012 03:07 PM
Surr: Dibromofluoromethane	103		71-125	%REC	1	1/9/2012 03:07 PM
Surr: Toluene-d8	94.1		75-125	%REC	1	1/9/2012 03:07 PM
OIL AND GREASE						
Oil and Grease	U		E1664 2.00	mg/L	1	Analyst: CMC 1/16/2012 10:00 AM
PH						
pH	6.33	H	E150.1 0.100	pH units	1	Analyst: TDW 1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS						
Suspended Solids (Residue, Non-Filterable)	30,400		M2540D 2.00	mg/L	1	Analyst: KAH 1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW7-1
Collection Date: 1/4/2012 12:50 PM

Work Order: 1201112
Lab ID: 1201112-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY			SW7470		Prep Date: 1/16/2012	Analyst: JCJ
Mercury	0.00117		0.000200	mg/L	1	1/16/2012 03:38 PM
METALS			SW6020		Prep Date: 1/10/2012	Analyst: ALR
Arsenic	0.112		0.0500	mg/L	10	1/11/2012 12:10 AM
Barium	4.85		0.0500	mg/L	10	1/11/2012 12:10 AM
Cadmium	0.00486		0.00200	mg/L	1	1/12/2012 06:07 AM
Chromium	0.270		0.0500	mg/L	10	1/11/2012 12:10 AM
Lead	0.360		0.0500	mg/L	10	1/11/2012 12:10 AM
Selenium	0.0518		0.0500	mg/L	10	1/11/2012 12:10 AM
Silver	0.00176	J	0.00500	mg/L	1	1/12/2012 06:07 AM
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	1/10/2012 03:55 PM
Ethylbenzene	U		5.0	µg/L	1	1/10/2012 03:55 PM
Toluene	U		5.0	µg/L	1	1/10/2012 03:55 PM
Xylenes, Total	U		15	µg/L	1	1/10/2012 03:55 PM
Surr: 1,2-Dichloroethane-d4	94.5		70-125	%REC	1	1/10/2012 03:55 PM
Surr: 4-Bromofluorobenzene	91.9		72-125	%REC	1	1/10/2012 03:55 PM
Surr: Dibromofluoromethane	96.3		71-125	%REC	1	1/10/2012 03:55 PM
Surr: Toluene-d8	91.8		75-125	%REC	1	1/10/2012 03:55 PM
OIL AND GREASE			E1664			Analyst: CMC
Oil and Grease	0.682	J	2.00	mg/L	1	1/16/2012 10:00 AM
PH			E150.1			Analyst: TDW
pH	6.39	H	0.100	pH units	1	1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: KAH
Suspended Solids (Residue, Non-Filterable)	48,200		2.00	mg/L	1	1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW3-2
Collection Date: 1/4/2012 10:30 AM

Work Order: 1201112
Lab ID: 1201112-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY						
Mercury	0.00137		SW7470 0.000200	mg/L	Prep Date: 1/16/2012 1	Analyst: JCJ 1/16/2012 03:40 PM
METALS						
Arsenic	0.0784		SW6020 0.0500	mg/L	Prep Date: 1/10/2012 10	Analyst: ALR 1/11/2012 12:16 AM
Barium	4.25		0.0500	mg/L	10	1/11/2012 12:16 AM
Cadmium	0.00615		0.00200	mg/L	1	1/12/2012 06:14 AM
Chromium	0.241		0.0500	mg/L	10	1/11/2012 12:16 AM
Lead	0.628		0.0500	mg/L	10	1/11/2012 12:16 AM
Selenium	0.0352		0.00500	mg/L	1	1/12/2012 06:14 AM
Silver	0.00194	J	0.00500	mg/L	1	1/12/2012 06:14 AM
VOLATILES						
Benzene	U		SW8260 5.0	µg/L	1	Analyst: PC 1/9/2012 12:23 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 12:23 PM
Toluene	U		5.0	µg/L	1	1/9/2012 12:23 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 12:23 PM
Surr: 1,2-Dichloroethane-d4	111		70-125	%REC	1	1/9/2012 12:23 PM
Surr: 4-Bromofluorobenzene	87.3		72-125	%REC	1	1/9/2012 12:23 PM
Surr: Dibromofluoromethane	103		71-125	%REC	1	1/9/2012 12:23 PM
Surr: Toluene-d8	86.7		75-125	%REC	1	1/9/2012 12:23 PM
OIL AND GREASE						
Oil and Grease	U		E1664 2.00	mg/L	1	Analyst: CMC 1/16/2012 10:00 AM
PH						
pH	6.50	H	E150.1 0.100	pH units	1	Analyst: TDW 1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS						
Suspended Solids (Residue, Non-Filterable)	10,800		M2540D 2.00	mg/L	1	Analyst: KAH 1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW2-1
Collection Date: 1/4/2012 11:00 AM

Work Order: 1201112
Lab ID: 1201112-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY			SW7470		Prep Date: 1/16/2012	Analyst: JCJ
Mercury	0.000465		0.000200	mg/L	1	1/16/2012 03:42 PM
METALS			SW6020		Prep Date: 1/10/2012	Analyst: ALR
Arsenic	0.0512		0.0500	mg/L	10	1/11/2012 12:23 AM
Barium	2.66		0.0500	mg/L	10	1/11/2012 12:23 AM
Cadmium	0.00329		0.00200	mg/L	1	1/12/2012 06:39 AM
Chromium	0.282		0.0500	mg/L	10	1/11/2012 12:23 AM
Lead	0.348		0.0500	mg/L	10	1/11/2012 12:23 AM
Selenium	0.0312		0.00500	mg/L	1	1/12/2012 06:39 AM
Silver	0.00127	J	0.00500	mg/L	1	1/12/2012 06:39 AM
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	1/9/2012 12:52 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 12:52 PM
Toluene	U		5.0	µg/L	1	1/9/2012 12:52 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 12:52 PM
Surr: 1,2-Dichloroethane-d4	107		70-125	%REC	1	1/9/2012 12:52 PM
Surr: 4-Bromofluorobenzene	90.1		72-125	%REC	1	1/9/2012 12:52 PM
Surr: Dibromofluoromethane	106		71-125	%REC	1	1/9/2012 12:52 PM
Surr: Toluene-d8	89.3		75-125	%REC	1	1/9/2012 12:52 PM
OIL AND GREASE			E1664			Analyst: CMC
Oil and Grease	1.69	J	2.00	mg/L	1	1/16/2012 10:00 AM
PH			E150.1			Analyst: TDW
pH	6.54	H	0.100	pH units	1	1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: KAH
Suspended Solids (Residue, Non-Filterable)	14,700		2.00	mg/L	1	1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW1-2
Collection Date: 1/4/2012 11:30 AM

Work Order: 1201112
Lab ID: 1201112-05
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY						
Mercury	0.000833		SW7470 0.000200	mg/L	1	Prep Date: 1/16/2012 Analyst: JCJ 1/16/2012 03:44 PM
METALS						
Arsenic	0.0994		SW6020 0.0500	mg/L	10	Prep Date: 1/10/2012 Analyst: ALR 1/11/2012 12:29 AM
Barium	11.4		0.0500	mg/L	10	1/11/2012 12:29 AM
Cadmium	0.00640		0.00200	mg/L	1	1/12/2012 06:45 AM
Chromium	0.753		0.0500	mg/L	10	1/11/2012 12:29 AM
Lead	2.07		0.0500	mg/L	10	1/11/2012 12:29 AM
Selenium	0.0984		0.0500	mg/L	10	1/11/2012 12:29 AM
Silver	0.0112		0.00500	mg/L	1	1/12/2012 06:45 AM
VOLATILES						
Benzene	U		SW8260 5.0	µg/L	1	Analyst: PC 1/9/2012 02:14 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 02:14 PM
Toluene	U		5.0	µg/L	1	1/9/2012 02:14 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 02:14 PM
Surr: 1,2-Dichloroethane-d4	101		70-125	%REC	1	1/9/2012 02:14 PM
Surr: 4-Bromofluorobenzene	92.8		72-125	%REC	1	1/9/2012 02:14 PM
Surr: Dibromofluoromethane	102		71-125	%REC	1	1/9/2012 02:14 PM
Surr: Toluene-d8	92.9		75-125	%REC	1	1/9/2012 02:14 PM
OIL AND GREASE						
Oil and Grease	0.638	J	E1664 2.00	mg/L	1	Analyst: CMC 1/16/2012 10:00 AM
PH						
pH	6.38	H	E150.1 0.100	pH units	1	Analyst: TDW 1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS						
Suspended Solids (Residue, Non-Filterable)	38,100		M2540D 2.00	mg/L	1	Analyst: KAH 1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: RW5-1
Collection Date: 1/4/2012 12:00 PM

Work Order: 1201112
Lab ID: 1201112-06
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY			SW7470		Prep Date: 1/16/2012	Analyst: JCJ
Mercury	0.000980		0.000200	mg/L	1	1/16/2012 03:46 PM
METALS			SW6020		Prep Date: 1/10/2012	Analyst: ALR
Arsenic	0.0755		0.0500	mg/L	10	1/11/2012 12:35 AM
Barium	6.61		0.0500	mg/L	10	1/11/2012 12:35 AM
Cadmium	0.00377		0.00200	mg/L	1	1/12/2012 06:51 AM
Chromium	0.293		0.0500	mg/L	10	1/11/2012 12:35 AM
Lead	0.576		0.0500	mg/L	10	1/11/2012 12:35 AM
Selenium	0.0652		0.0500	mg/L	10	1/11/2012 12:35 AM
Silver	0.00358	J	0.00500	mg/L	1	1/12/2012 06:51 AM
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	1/9/2012 02:41 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 02:41 PM
Toluene	U		5.0	µg/L	1	1/9/2012 02:41 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 02:41 PM
Surr: 1,2-Dichloroethane-d4	105		70-125	%REC	1	1/9/2012 02:41 PM
Surr: 4-Bromofluorobenzene	94.6		72-125	%REC	1	1/9/2012 02:41 PM
Surr: Dibromofluoromethane	100		71-125	%REC	1	1/9/2012 02:41 PM
Surr: Toluene-d8	92.1		75-125	%REC	1	1/9/2012 02:41 PM
OIL AND GREASE			E1664			Analyst: CMC
Oil and Grease	0.652	J	2.00	mg/L	1	1/16/2012 10:00 AM
PH			E150.1			Analyst: TDW
pH	6.36	H	0.100	pH units	1	1/6/2012 02:00 PM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: KAH
Suspended Solids (Residue, Non-Filterable)	19,200		2.00	mg/L	1	1/6/2012 01:45 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: Trip Blank - 111411-23
Collection Date: 1/5/2012 06:30 PM

Work Order: 1201112
Lab ID: 1201112-07
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	1/9/2012 06:40 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 06:40 PM
Toluene	U		5.0	µg/L	1	1/9/2012 06:40 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 06:40 PM
Surr: 1,2-Dichloroethane-d4	113		70-125	%REC	1	1/9/2012 06:40 PM
Surr: 4-Bromofluorobenzene	94.9		72-125	%REC	1	1/9/2012 06:40 PM
Surr: Dibromofluoromethane	107		71-125	%REC	1	1/9/2012 06:40 PM
Surr: Toluene-d8	96.7		75-125	%REC	1	1/9/2012 06:40 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-12

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
Sample ID: Trip Blank - 111411-24
Collection Date: 1/4/2012

Work Order: 1201112
Lab ID: 1201112-08
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILES			SW8260			Analyst: PC
Benzene	U		5.0	µg/L	1	1/9/2012 07:07 PM
Ethylbenzene	U		5.0	µg/L	1	1/9/2012 07:07 PM
Toluene	U		5.0	µg/L	1	1/9/2012 07:07 PM
Xylenes, Total	U		15	µg/L	1	1/9/2012 07:07 PM
Surr: 1,2-Dichloroethane-d4	109		70-125	%REC	1	1/9/2012 07:07 PM
Surr: 4-Bromofluorobenzene	95.9		72-125	%REC	1	1/9/2012 07:07 PM
Surr: Dibromofluoromethane	102		71-125	%REC	1	1/9/2012 07:07 PM
Surr: Toluene-d8	90.3		75-125	%REC	1	1/9/2012 07:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1201112
Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **58036** Instrument ID **ICPMS03** Method: **SW6020**

MBLK		Sample ID: MBLKW4-011012-58036				Units: mg/L		Analysis Date: 1/10/2012 09:21 PM		
Client ID:		Run ID: ICPMS03_120110A			SeqNo: 2651456		Prep Date: 1/10/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	0.00143	0.0050								J
Silver	U	0.0050								

LCS		Sample ID: MLCSW4-011012-58036				Units: mg/L		Analysis Date: 1/10/2012 09:28 PM		
Client ID:		Run ID: ICPMS03_120110A			SeqNo: 2651457		Prep Date: 1/10/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04937	0.0050	0.05	0	98.7	80-120	0			
Barium	0.0536	0.0050	0.05	0	107	80-120	0			
Cadmium	0.04973	0.0020	0.05	0	99.5	80-120	0			
Chromium	0.04978	0.0050	0.05	0	99.6	80-120	0			
Lead	0.05158	0.0050	0.05	0	103	80-120	0			
Selenium	0.0496	0.0050	0.05	0	99.2	80-120	0			
Silver	0.05089	0.0050	0.05	0	102	80-120	0			

MS		Sample ID: 1201103-01CMS				Units: mg/L		Analysis Date: 1/10/2012 09:53 PM		
Client ID:		Run ID: ICPMS03_120110A			SeqNo: 2651461		Prep Date: 1/10/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0503	0.0050	0.05	0.000005941	101	80-120	0			
Barium	0.05454	0.0050	0.05	-0.00002379	109	80-120	0			
Cadmium	0.05096	0.0020	0.05	0.0001141	102	80-120	0			
Chromium	0.0504	0.0050	0.05	0.000387	100	80-120	0			
Lead	0.0527	0.0050	0.05	0.0001094	105	80-120	0			
Selenium	0.05089	0.0050	0.05	0.001378	99	80-120	0			
Silver	0.05212	0.0050	0.05	-0.000202	105	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1201112
 Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: 58036 Instrument ID ICPMS03 Method: SW6020

MSD		Sample ID: 1201103-01CMSD				Units: mg/L		Analysis Date: 1/10/2012 09:59 PM		
Client ID:		Run ID: ICPMS03_120110A				SeqNo: 2651462		Prep Date: 1/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04856	0.0050	0.05	0.000005941	97.1	80-120	0.0503	3.52	15	
Barium	0.05347	0.0050	0.05	-0.00002379	107	80-120	0.05454	1.98	15	
Cadmium	0.04929	0.0020	0.05	0.0001141	98.4	80-120	0.05096	3.33	15	
Chromium	0.04876	0.0050	0.05	0.000387	96.7	80-120	0.0504	3.31	15	
Lead	0.05111	0.0050	0.05	0.0001094	102	80-120	0.0527	3.06	15	
Selenium	0.04836	0.0050	0.05	0.001378	94	80-120	0.05089	5.1	15	
Silver	0.05084	0.0050	0.05	-0.000202	102	80-120	0.05212	2.49	15	

DUP		Sample ID: 1201103-01CDUP				Units: mg/L		Analysis Date: 1/10/2012 09:40 PM		
Client ID:		Run ID: ICPMS03_120110A				SeqNo: 2651459		Prep Date: 1/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050	0	0	0	0-0	0.000005941	0	25	
Barium	U	0.0050	0	0	0	0-0	-0.00002379	0	25	
Cadmium	U	0.0020	0	0	0	0-0	0.0001141	0	25	
Chromium	U	0.0050	0	0	0	0-0	0.000387	0	25	
Lead	U	0.0050	0	0	0	0-0	0.0001094	0	25	
Selenium	0.001118	0.0050	0	0	0	0-0	0.001378	0	25	J
Silver	U	0.0050	0	0	0	0-0	-0.000202	0	25	

The following samples were analyzed in this batch:

1201112-01C	1201112-02C	1201112-03C
1201112-04C	1201112-05C	1201112-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1201112
 Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **58176** Instrument ID **Mercury** Method: **SW7470**

MBLK	Sample ID: GBLKW3-011612-58176					Units: mg/L	Analysis Date: 1/16/2012 03:06 PM			
Client ID:		Run ID: MERCURY_120116A			SeqNo: 2656042	Prep Date: 1/16/2012	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS	Sample ID: GLCSW3-011612-58176					Units: mg/L	Analysis Date: 1/16/2012 03:08 PM			
Client ID:		Run ID: MERCURY_120116A			SeqNo: 2656043	Prep Date: 1/16/2012	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0055	0.00020	0.005	0	110	85-115	0			

MS	Sample ID: 1201308-01CMS					Units: mg/L	Analysis Date: 1/16/2012 03:20 PM			
Client ID:		Run ID: MERCURY_120116A			SeqNo: 2656046	Prep Date: 1/16/2012	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00544	0.00020	0.005	-0.000001	109	85-115	0			

MSD	Sample ID: 1201308-01CMSD					Units: mg/L	Analysis Date: 1/16/2012 03:22 PM			
Client ID:		Run ID: MERCURY_120116A			SeqNo: 2656049	Prep Date: 1/16/2012	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00554	0.00020	0.005	-0.000001	111	85-115	0.00544	1.82	20	

DUP	Sample ID: 1201308-01CDUP					Units: mg/L	Analysis Date: 1/16/2012 03:18 PM			
Client ID:		Run ID: MERCURY_120116A			SeqNo: 2656045	Prep Date: 1/16/2012	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	-0.000001	0	20	

The following samples were analyzed in this batch:

1201112-01C	1201112-02C	1201112-03C
1201112-04C	1201112-05C	1201112-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1201112
 Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: R121537 Instrument ID VOA1 Method: SW8260

MBLK		Sample ID: VBLKW-010912-R121537			Units: µg/L			Analysis Date: 1/9/2012 11:22 AM		
Client ID:		Run ID: VOA1_120109A			SeqNo: 2650552		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	52.85	5.0	50	0	106	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.48	5.0	50	0	93	72-125	0			
<i>Surr: Dibromofluoromethane</i>	50.56	5.0	50	0	101	71-125	0			
<i>Surr: Toluene-d8</i>	45.3	5.0	50	0	90.6	75-125	0			

LCS		Sample ID: VLCSW-010912-R121537			Units: µg/L			Analysis Date: 1/9/2012 10:20 AM		
Client ID:		Run ID: VOA1_120109A			SeqNo: 2650551		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.95	5.0	50	0	97.9	73-121	0			
Ethylbenzene	48.79	5.0	50	0	97.6	80-120	0			
Toluene	46.87	5.0	50	0	93.7	80-120	0			
Xylenes, Total	144	15	150	0	96	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	49.56	5.0	50	0	99.1	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.61	5.0	50	0	99.2	72-125	0			
<i>Surr: Dibromofluoromethane</i>	49.96	5.0	50	0	99.9	71-125	0			
<i>Surr: Toluene-d8</i>	47.17	5.0	50	0	94.3	75-125	0			

MS		Sample ID: 1201118-01AMS			Units: µg/L			Analysis Date: 1/9/2012 01:20 PM		
Client ID:		Run ID: VOA1_120109A			SeqNo: 2650556		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.02	5.0	50	0	96	73-121	0			
Ethylbenzene	43.42	5.0	50	0	86.8	80-120	0			
Toluene	46.11	5.0	50	0	92.2	80-120	0			
Xylenes, Total	141.6	15	150	0	94.4	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	51.89	5.0	50	0	104	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	54.14	5.0	50	0	108	72-125	0			
<i>Surr: Dibromofluoromethane</i>	50.58	5.0	50	0	101	71-125	0			
<i>Surr: Toluene-d8</i>	50.99	5.0	50	0	102	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1201112
Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **R121537** Instrument ID **VOA1** Method: **SW8260**

MSD		Sample ID: 1201118-01AMSD			Units: µg/L			Analysis Date: 1/9/2012 01:47 PM		
Client ID:		Run ID: VOA1_120109A			SeqNo: 2650557		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.53	5.0	50	0	95.1	73-121	48.02	1.03	20	
Ethylbenzene	46.12	5.0	50	0	92.2	80-120	43.42	6.03	20	
Toluene	46.13	5.0	50	0	92.3	80-120	46.11	0.0428	20	
Xylenes, Total	136	15	150	0	90.7	80-120	141.6	4	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	52.58	5.0	50	0	105	70-125	51.89	1.32	20	
<i>Surr: 4-Bromofluorobenzene</i>	47.9	5.0	50	0	95.8	72-125	54.14	12.2	20	
<i>Surr: Dibromofluoromethane</i>	51.51	5.0	50	0	103	71-125	50.58	1.82	20	
<i>Surr: Toluene-d8</i>	44.6	5.0	50	0	89.2	75-125	50.99	13.4	20	

The following samples were analyzed in this batch:

1201112-01A	1201112-03A	1201112-04A
1201112-05A	1201112-06A	1201112-07A
1201112-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1201112
 Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: R121573 Instrument ID VOA1 Method: SW8260

MBLK		Sample ID: VBLKW-011012-R121573			Units: µg/L			Analysis Date: 1/10/2012 11:39 AM		
Client ID:		Run ID: VOA1_120110A			SeqNo: 2651227			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	51.92	5.0	50	0	104	70-125	0			
Surr: 4-Bromofluorobenzene	46.22	5.0	50	0	92.4	72-125	0			
Surr: Dibromofluoromethane	52.91	5.0	50	0	106	71-125	0			
Surr: Toluene-d8	46.74	5.0	50	0	93.5	75-125	0			

LCS		Sample ID: VLCSW-011012-R121573			Units: µg/L			Analysis Date: 1/10/2012 12:06 PM		
Client ID:		Run ID: VOA1_120110A			SeqNo: 2651228			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.83	5.0	50	0	106	73-121	0			
Ethylbenzene	50.19	5.0	50	0	100	80-120	0			
Toluene	48.86	5.0	50	0	97.7	80-120	0			
Xylenes, Total	150.2	15	150	0	100	80-120	0			
Surr: 1,2-Dichloroethane-d4	51.59	5.0	50	0	103	70-125	0			
Surr: 4-Bromofluorobenzene	48.61	5.0	50	0	97.2	72-125	0			
Surr: Dibromofluoromethane	50.4	5.0	50	0	101	71-125	0			
Surr: Toluene-d8	46.95	5.0	50	0	93.9	75-125	0			

MS		Sample ID: 1201103-18ZMS			Units: µg/L			Analysis Date: 1/10/2012 01:47 PM		
Client ID:		Run ID: VOA1_120110A			SeqNo: 2651232			Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	11120	500	5000	7047	81.5	73-121	0			
Ethylbenzene	9029	500	5000	4112	98.3	80-120	0			
Toluene	4534	500	5000	0	90.7	80-120	0			
Xylenes, Total	16650	1,500	15000	1457	101	80-120	0			
Surr: 1,2-Dichloroethane-d4	4950	500	5000	0	99	70-125	0			
Surr: 4-Bromofluorobenzene	4824	500	5000	0	96.5	72-125	0			
Surr: Dibromofluoromethane	5072	500	5000	0	101	71-125	0			
Surr: Toluene-d8	4482	500	5000	0	89.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1201112
Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **R121573** Instrument ID **VOA1** Method: **SW8260**

MSD		Sample ID: 1201103-18ZMSD			Units: µg/L		Analysis Date: 1/10/2012 02:13 PM			
Client ID:		Run ID: VOA1_120110A			SeqNo: 2651233		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	11400	500	5000	7047	87.1	73-121	11120	2.49	20	
Ethylbenzene	8627	500	5000	4112	90.3	80-120	9029	4.56	20	
Toluene	4226	500	5000	0	84.5	80-120	4534	7.02	20	
Xylenes, Total	14970	1,500	15000	1457	90.1	80-120	16650	10.7	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	5066	500	5000	0	101	70-125	4950	2.32	20	
<i>Surr: 4-Bromofluorobenzene</i>	4434	500	5000	0	88.7	72-125	4824	8.41	20	
<i>Surr: Dibromofluoromethane</i>	4893	500	5000	0	97.9	71-125	5072	3.6	20	
<i>Surr: Toluene-d8</i>	4225	500	5000	0	84.5	75-125	4482	5.9	20	

The following samples were analyzed in this batch: 1201112-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1201112
Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **R121455** Instrument ID **WetChem** Method: **E150.1**

LCS Sample ID: **WLCSDW1-010612-R121455** Units: **pH units** Analysis Date: **1/6/2012 02:00 PM**

Client ID: Run ID: **WETCHEM_120106B** SeqNo: **2648795** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6	0.10	6	0	100	90-110	0			

DUP Sample ID: **1201112-01BDUP** Units: **pH units** Analysis Date: **1/6/2012 02:00 PM**

Client ID: **RW6-1** Run ID: **WETCHEM_120106B** SeqNo: **2648802** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.38	0.10	0	0	0	0-0	6.33	0.787	20	H

The following samples were analyzed in this batch:

1201112-01B	1201112-02B	1201112-03B
1201112-04B	1201112-05B	1201112-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1201112
Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **R121501** Instrument ID **BALANCE1** Method: **M2540D**

MBLK Sample ID: **WBLK-010612-R121501** Units: **mg/L** Analysis Date: **1/6/2012 01:45 PM**

Client ID: Run ID: **BALANCE1_120106B** SeqNo: **2649899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	U	2.0								

DUP Sample ID: **1201084-02DDUP** Units: **mg/L** Analysis Date: **1/6/2012 01:45 PM**

Client ID: Run ID: **BALANCE1_120106B** SeqNo: **2649878** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	20.25	2.0	0		0	0-0		22	8.28	20

DUP Sample ID: **1201115-02EDUP** Units: **mg/L** Analysis Date: **1/6/2012 01:45 PM**

Client ID: Run ID: **BALANCE1_120106B** SeqNo: **2649891** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	4332	2.0	0		0	0-0		4392	1.38	20

The following samples were analyzed in this batch:

1201112-01D	1201112-02D	1201112-03D
1201112-04D	1201112-05D	1201112-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1201112
 Project: CDOT Highway 6 Bridgework

QC BATCH REPORT

Batch ID: **R121824** Instrument ID **WetChem** Method: **E1664**

MBLK		Sample ID: WBLKW1-011612-R121824				Units: mg/L		Analysis Date: 1/16/2012 10:00 AM		
Client ID:		Run ID: WETCHEM_120116J				SeqNo: 2656662		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	U	2.0								

LCS		Sample ID: WLCSW1-011612-R121824				Units: mg/L		Analysis Date: 1/16/2012 10:00 AM		
Client ID:		Run ID: WETCHEM_120116J				SeqNo: 2656663		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	38.78	2.0	40	0	96.9	78-114	0			

MS		Sample ID: 1201293-01EMS				Units: mg/L		Analysis Date: 1/16/2012 10:00 AM		
Client ID:		Run ID: WETCHEM_120116J				SeqNo: 2656704		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.33	2.0	40	3.69	102	78-114	0			

The following samples were analyzed in this batch:

1201112-01E	1201112-02E	1201112-03E
1201112-04E	1201112-05E	1201112-06E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: CDOT Highway 6 Bridgework
WorkOrder: 1201112

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
pH units	

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **05-Jan-12 09:00**

Work Order: **1201112**

Received by: **RNG**

Checklist completed by Parash M. Ciga 05-Jan-12
eSignature Date

Reviewed by: Patricia L. Lynch 06-Jan-12
eSignature Date

Matrices: Water

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.6, 2.2 002

Cooler(s)/Kit(s): 3446, 1871

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by: -

Login Notes: COC states incorrect bottle count - RW5-1 has 8 bottles & RW3-2 has 7 bottles - logged in per correct count. Received 2 trip blanks; not on COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

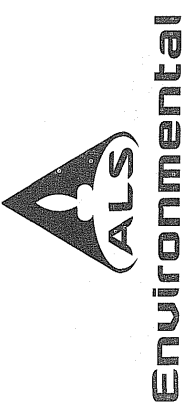
Comments:

CorrectiveAction:

1201112

Chain of Custody Form
 Page 1 of 1
 COC ID: 49196
 ALS Project Manager:

OLSSON ASSOC - GOLDEN: Olsson Associates
 Project: CDOT Highway 6 Bridgework



Customer Information				Project Information			
Purchase Order	Project Name	CDOT Highway 6 Bridgework	A	BTEX (8260)			
Work Order	Project Number		B	Total Metals (6020/7000) RCRA8			
Company Name	Bill To Company	Olsson Associates	C	Oil & Grease			
Send Report To	Invoice Attn	James Hix	D	pH			
Address	Address	4690 Table Mountain Drive Suite 200	E	TSS			
City/State/Zip	City/State/Zip	Golden, CO 80403	G				
Phone	Phone	(303) 237-2072	H				
Fax	Fax	(303) 237-2659	I				
e-Mail Address	e-Mail Address		J				

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW6-1	1/4/12	12:20	W	Y	8	X	X	X	X	X						
2	RW7-1		12:50	W		8	X	X	X	X	X						
3	RW3-2		1030	W		8	X	X	X	X	X						
4	RW2-1		11:00	W		8	X	X	X	X	X						
5	RW1-2		11:30	W		8	X	X	X	X	X						
6	RW5-1		12:00	W		7	X	X	X	X	X						
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box)
 Std 10 WK Days
 5 WK Days
 2 WK Days
 24 Hour

Results Due Date:

Relinquished by: *John Bough* Date: 1/4/12
 Received by (Laboratory): *[Signature]* Date: 1/12/12

Relinquished by: *[Signature]* Date: 1/4/12
 Checked by (Laboratory): *[Signature]* Date: 01/06

Logged by (Laboratory):

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)
 Level II Std QC
 Level III Std QC
 Level IV SW846/CLP
 Other / EDD

TRRP Checklist
 TRRP Level I
 TRRP Level II
 TRRP Level III
 TRRP Level IV

Notes: 10 Day TAT
 Cooler ID
 Cooler Temp.

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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**industrial
LABORATORIES**

Industrial Laboratories is your independent,
third-party analytical testing laboratory

To: Olsson Associates
4690 Table Mountain Drive
#200
Golden CO 80403

Attn: James Hix

TEST REPORT

OLSSONASSO

Date Received: 1/4/2012

Date Reported: 1/9/2012

PO Number: 011-2359 200

Note: Sample test procedures conform to EPA 40CFR136 requirements.

Lab No.	Sample Description	Test Method	Result	Units	MDL	Analysis Date/By
120104015-01A	RW 6-1, 1/4/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		KM 1/5/2012
120104015-02A	RW 7-1, 1/4/12	* Escherichia coli SM 9221 F	7	MPN/100mL		KM 1/5/2012
120104015-03A	RW 3-2, 1/4/12	* Escherichia coli SM 9221 F	4	MPN/100mL		KM 1/5/2012
120104015-04A	RW 2-1, 1/4/12	* Escherichia coli SM 9221 F	4	MPN/100mL		KM 1/5/2012
120104015-05A	RW 1-2, 1/4/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		KM 1/5/2012
120104015-06A	RW 5-1, 1/4/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		KM 1/5/2012

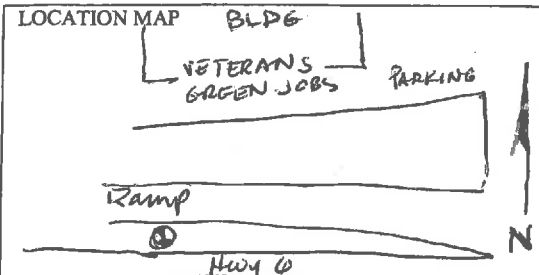


Department Manager

* = Scope Analysis
= Subcontracted Analysis
MDL = Method Detection Limit
ND = Not Detected at the Method Detection Limit

Page: 1 of 1

ATTACHMENT C
SOIL BORING LOGS AND
WELL COMPLETION REPORTS



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: RWT-2 Project: Hairing Assoc. U.S. 6 Bridge
Date: 12/09/11 Project Number: 011-2359
Logged By: James H X Drilled By: Dakota Drilling
Drilling Method: HSA CMES5 Sampling Method: split spoon

Elevation: _____ Detector: OVM 580B Seal: Bentonite Chips Grout: Concrete
Gravel Pack: 10-20 Silica Sand Hole Dia.: 7 1/4 F. L. Meter: _____
Casing Type: Schedule 40 PVC Diameter: 2" Length: 10 DTP: ND DTW: 19.5'
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 15 Well Depth: 25 Total Depth: 25

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Snow cover	
								1			0.0 to 2.0 ft Clay, fill, dry, 40% clay, massive, Hard moderate yellowish brown (10YR 5/4)	
CL	10YR 5/4	Dry	46% clay	MASS	0.0	NO		2	12	12	OVM _{HS} 0.0 ppm @ 2' Fill material No odor/No apparent staining	
								3				
								4			4.0 to 5.0 ft silty sandy clay dry, moderately plastic, moderate yellowish brown (10YR 5/4)	
CL	10YR 5/4	Moist	45% clay	MASS	0.0	NO		5		6	moist, 45% clay 40% silt, massive OVM _{HS} 0.0 ppm @ 4.0 ft	
								6			No odor, No apparent staining. Fill	
								7				
CL	10YR	Dry Moist		MASS	0.0	NO		8			9.0 to 10.0 ft silty clay, Dusky yellowish brown (10YR 5/4)	
								9			Dry to slightly moist, 45% clay massive, OVM _{HS} 0.0 ppm @ 9'	
								10			No apparent staining, No odor Fill	
								11				
								12				
SM/GM	10YR	Dry	35% silt	Blocky	0.0	NO		13			14.0 to 15.5 ft silty sand to silty gravelly sand, blocky, yellowish orange, arkosic, dry	
								14		15	OVM _{HS} 0.0 ppm No odor; No staining	
								15		17		
								16				
SM/GM	10YR	Dry	45% silt	Sub-angular	0.0	NO		17			17.0 to 19.0 silty sand w/ some gravel, moderate yellow tan, dry	
								18		9	subangular, OVM _{HS} 0.0 ppm	
								19		22	No apparent odor, No staining	
								19		25		
								20		25		

LOCATION MAP

See page 1



4690 Table Mountain Drive #200
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TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: RW1-2

Project: Hartwig Assoc U.S. G Bridges

Date: 12/09/11

Project Number: 011-2359

Logged By: James Hix

Drilled By: Dakota Drilling/Rockwell

Drilling Method: HSA CMESS

Sampling Method: split spoon

Elevation:

Detector: OVM500B

Seal: Bentonite Chips 3/8"

Grout: concrete

Gravel Pack: 10-20 Silica Sand

Hole Dia.: 7 1/4"

F. L. Meter: N/A

Casing Type: Schedule 40 PVC

Diameter: 2"

Length: 10

DTP: ND

DTW: 19.5

Screen Type: Sched 40 PVC Slot: 0.010

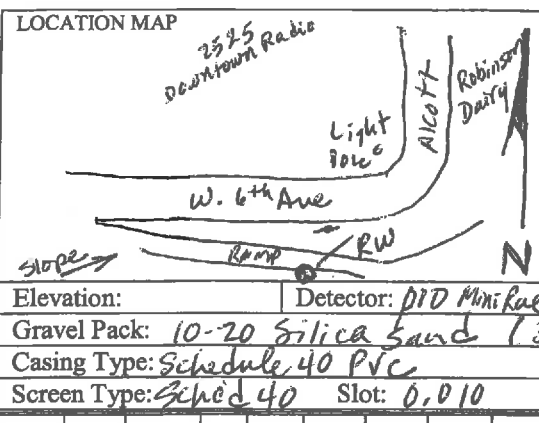
Diameter: 2"

Length: 15

Well Depth: 25

Total Depth: 25

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
GM	10YR 5/4	I wet		MASS	0.0	NO	21			18	19-21.5 ft Sandy gravel, wet @ 19.5ft to 20 ft. massive OVM _{HS} 0.0 ppm No odor; NO staining	<p>SAND 10-20 SILICA</p> <p>BOTTOM CAP</p> <p>TD = 25 ft</p>
							22			21		
							23			22		
							24			12	24-25.5 ft Sandy gravel, wet well rounded, arkosic, SAT. massive, OVM _{HS} 0.0 ppm No odor; No staining	
GM	SAT			MASS	0.0	NO	25		100%	15		
							26			15		
							27					
							28					



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TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: RW2-1 Project: Hartwig Assoc US 6 Bridge
 Date: 12/7/11 Project Number: 1011-2359
 Logged By: James Hix Drilled By: Dakota Drilling/Rocksol
 Drilling Method: HSA CMESS Sampling Method: Splits/ston

Elevation: _____ Detector: D10 Mini RAE Seal: Bentonite Casps 3/8" Grout: Sukrete
 Gravel Pack: 10-20 Silica Sand (30'-8' bgs) Hole Dia.: 8" F. L. Meter: N/A
 Casing Type: Schedule 40 PVC Diameter: 2" Length: 10 DTP: ND DTW: 20.5 ft
 Screen Type: Sched 40 Slot: 0.010 Diameter: 2" Length: 20 Well Depth: 30 Total Depth: 30

12:25

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0				
GC	10YR Dry					No		1			Snow covers - Boring located along curb for U.S. 6 off Ramp - South of W. 6th Ave & Alcott St. / Robinson Dairy. Cuttings - dusky yellowish brown, Gravelly clay / cobbles	Fluxus meter J Plug
								2				
								3			Rocksol collecting 10-5 ft interval - pavement sample / Retaining wall	
								4	8			
								5	12		No odor - Dusky yellowish brown clay / roots / debris layer shoe of screen	
								6	50/11		Grass / roots @ surface - Cuttings Asphalt / gravel w/ depth -> cobbles	Blank PVC casing Bentonite seal
								7				
								8				
					0.0	No		9				
CL	10YR 3/4 Moist				MASS	No		10	4		10 to 11.5 ft: clay / silty clay (CL) moderate yellowish brown (10YR 5/4)	10-20 Silica Sand Top of screen
								11	18"	5	Fill material - brick & asphalt fragments. massive	
								12	4		Cuttings - "ball clay" med plasticity	
								13				
								14				
					0.1	No		15	9		15.0 to 16.5 ft: well graded sand & gravel (poorly sorted) Arkosic	
SW	Dry				MASS	No		16	12"	11	little or no fines. No apparent odor No apparent staining, dry	
GW								17				
								18				
								19			Massive - well graded gravel	
GC	Wet				0.0	No		20	30/36	30/36	20 to 21.5 ft Gravelly clay 1/2" diameter, arkosic gravel	

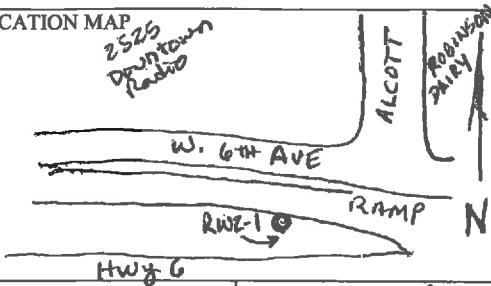
13:06

13:13

13:30

12/7/11
JWH

LOCATION MAP
2525
DUNTEOWN
RADIO



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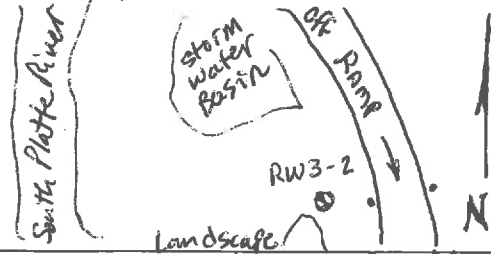
TEST HOLE/ WELL LOG Page 2 of 2

Test/Well Number: RW2-1 Project:
Date: 12/7/11 Project Number: 011-2359
Logged By: James Hix Drilled By: Dakota Drilling/Rocksol
Drilling Method: HSA-CME55 Sampling Method: Split Spoon

Elevation: Detector: Mini Pac 200 Seal: Bentonite Chips 3/8" Grout: Sakrete
Gravel Pack: 10-20 Silica Sand Hole Dia.: 9" F. L. Meter: N/A
Casing Type: Schedule 40 PVC Diameter: 2" Length: 10' DTP: ND DTW: 20.5'
Screen Type: Sched 40 Slot: 0.010 Diameter: 2" Length: 20' Well Depth: 30' Total Depth: 30'

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
GC	5YR	SAT		MASS	0.0	NO	21		30		21.5 to 22 ft Clayey gravel	
							22				Clay Sand - Gravel mixtures. HS 0.0 ppm. No odor; No staining, saturated massive	
							23					
							24					
							25		12		25.0 to 26.5 ft Clayey sandy	
1345 GC	10YR 5/4	SAT		MASS	0.1	NO	26		15		gravel, moderate yellow brown (10YR 5/4) saturated massive	
							27		14		HS 0.1 ppm No odor; No staining	
							28					
19:00 SC/GC		WET		MASS	0.0	NO	29		13		29 to 30 ft Clayey Sand/	
							30		13		Clayey Sandy Gravel mixtures	
									8		wet, massive HS 0.0 ppm	
											No apparent odor; No apparent staining.	
											TD = 30 ft bgs.	

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

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Test/Well Number: RW3-2 Project: Hortwing Assoc. U.S. Hwy 6
Date: 12/7/11 Project Number: 011-2359 Job 20000
Logged By: JWH Drilled By: Dakota Drilling
Drilling Method: HSA CME 55 Sampling Method: Split Spoon

Elevation: Detector: PID MK2000 Seal: Bentonite Chips 3/8" Grout: Sakrete
Gravel Pack: 10-20 Silica Sand Hole Dia.: 8" F. L. Meter: N/A
Casing Type: Schedule 40 PVC Diameter: 2" Length: 10 ft DTP: ND DTW: 15 ft
Screen Type: Sch 40 Slot: 0.010 Diameter: 2" Length: 15 ft Well Depth: 25 ft Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
SC							0				Snow cover	
							1				Sandy clay	
GC	10YR Dsg			Mass		No	2		8	12	0-2 ft: Clayey Gravel - Cobbles Dusky yellowish brown (10YR) (cuttings) well rounded cobbles moderately plastic clay.	J Plug Bentonite Chips
							3					
							4				Bounce	BLANK PVC CASING
GC	10YR S/A	Moist		Mass	S.O	NO	5		9		2-5 ft: Cuttings - Dusky yellowish brown to moderate yellowish brown Clayey Gravel - well rounded cobbles moderately plastic clay. No odor No staining. HS = 8.6 ppm Mini Rae 2000	
							6					
							7					
							8					
							9					
							10		3		10-11.5 Cobbles/Gravel	10-20 SILICA SAND
							11		3			0.010 Slot Screen Sch 40
							12					
							13					
							14					
I				Mass			15					
SM		WET @ 15'					16		8		Sample 16 ft - 18 ft: Silty Sand Grading into well graded sand and then back to clayey gravel	
GM							17		24"	4	yellowish sm. No apparent odor. No apparent staining	
SW					0.0	NO	18			5	Saturated. HS 0.0 ppm	
GC							19			10		
							20			15		
										20		

LOCATION MAP



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see pg 1

TEST HOLE/ WELL LOG

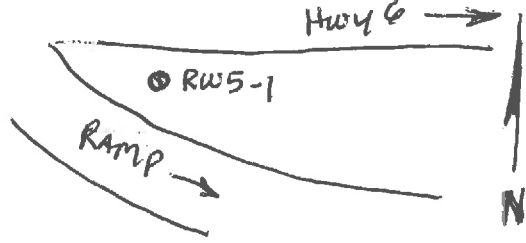
Page 2 of 2

Test/Well Number: *RW3-2* Project: *Hutwigs Assoc. U.S. 6 Bridge*
 Date: *12/7/11* Project Number: *011-2359 200 200002*
 Logged By: *JWH* Drilled By: *Dakota Drilling*
 Drilling Method: *HSA CMES5* Sampling Method: *Splitspoon*
 Elevation: Detector: *PID* Seal: *Bentonite Chips 3/8"* Grout: *Suckrete*

Gravel Pack: *10-20 Silica Sand* Hole Dia.: *8"* F. L. Meter: *N/A*
 Casing Type: *Schedule 40 PVC* Diameter: *2"* Length: *10* DTP: *ND* DTW: *15 ft*
 Screen Type: *Sched. 40 PVC Slot: 0.010* Diameter: *2"* Length: *15* Well Depth: Total Depth: *25 ft*

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
<i>SW</i>					<i>0.0</i>	<i>N.O.</i>	<i>21</i>		<i>21"</i>	<i>50/12</i>	<i>20 to 21.5 ft SW: well graded sand. No apparent odor & No apparent staining. HS 0.0 ppm Bottom sand</i>	<p>SCREEN SAND PACK BOTTOM CAP TD=25</p>
							<i>22</i>					
							<i>23</i>					
							<i>24</i>				<i>24 - 25.5 ft SC Clayey Sand</i>	
<i>SL</i>		<i>MOIST</i>			<i>0.0</i>	<i>NO</i>	<i>25</i>				<i>Bottom 6" Denver Blue Claystone</i>	
		<i>DRY</i>		<i>Weak Picky BLK</i>		<i>NO</i>	<i>26</i>				<i>TK & Bedrock, Dry,</i>	

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: RW5-1 Project: Hartwig Assoc. U.S. 6 Bridge
 Date: 12/9/11 Project Number: OH-2359
 Logged By: James Hix Drilled By: Dakota Drilling/Rocksol
 Drilling Method: HSA CME55 Sampling Method: split spoon

Elevation: _____ Detector: OVM 580B Seal: Bentonite Grout: Sakrete Quikrete
 Gravel Pack: 10-20 Silica Sand (35 ft to 20ft) Hole Dia.: 7/4 F. L. Meter: _____
 Casing Type: PVC Schedule 40 Diameter: 2" Length: 20ft DTP: ND DTW: 29.5ft
 Screen Type: PVC Sched 40 Slot: 0.010 Diameter: 2" Length: 15ft Well Depth: 35ft Total Depth: 35ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			0.0 to 2.0 ft Dark yellowish brown fill material, rock, brick debris, - Gravelly silt (GM)	
GM	10YR 6/2	Dry		MASS	0.0	NO		1	100%	12	Grayish brown, dry, some gravel subrounded, massive, OVM HS 0.0 ppm @ 2 ft Ryan Leprow	
	10YR							2		11	[Rocksol collects Bulk sample 0-5 (pavement)] Dusky yellow brown	
GC	10YR 5/4	Dry		MASS	0.0	NO		3	100%	12	4.0 to 5.0 ft Gravelly clay, to moderate yellowish brown (10YR 5/4) Dry, massive, no apparent odor NO staining, OVM HS 0.0 ppm @ 4ft (California tubes)	
								4		9		
GC	N	MOIST		MASS	0.0	YES		5	100%	9	9.0 to 10.0 ft Dusky yellowish brown to Black. Gravelly clay odor detected, OVM HS 0.0 ppm @ 9ft Fill - (California tubes) Slight odor = "Motor oil" old oil or asphalt.	
								6		1		
								7				
								8				
CL		MOIST		MASS	0.0	NO		9	18"	6	14.0 to 15.5 ft clay - silty clay (CL) Grayish brown, moist, massive, no apparent staining; no odor OVM HS 0.0 ppm	
								10	(60%)	6		
								11		8		
								12				
								13				
								14				
SM	10YR 6/2	Dry		MASS	0.0	NO		15	100%	7	19.0 to 20.0 ft silt/clayey silt (SM) Pale yellowish brown (10YR 6/2), dry massive, no apparent odor, NO staining OVM HS 0.0 ppm @ 19'	
								16		9		
								17				
								18				
								19				
								20				

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

See page 1

TEST HOLE/ WELL LOG

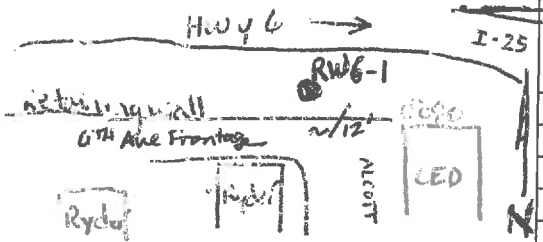
Page 2 of 2

Test/Well Number: RW5-1 Project: Hartwig U.S. 6 Bridges
Date: 12/9/11 Project Number: 011-2359
Logged By: James Hix Drilled By: Dakota Drilling/Rocksol
Drilling Method: HSA CME 55 Sampling Method: Spitspoon

Elevation: Detector: DVM580B Seal: Bentonite Chips/Granules Grout: Sakrete
Gravel Pack: 10-20 Silica Sand (35'-18') Hole Dia.: 7 1/4" F. L. Meter: N/A
Casing Type: Schedule 40 PVC Diameter: 2" Length: 20 ft DTP: ND DTW: 29.5
Screen Type: Sch 40 Slot: 0.010 Diameter: 2" Length: 15 ft Well Depth: 35' Total Depth: 35'

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					
							22					
							23					
GM	5YR	Dry moist		MASS	0.0	No	24		13		24.0 to 26.0 ft Sandy gravel	
							25	100%	19		Silty sandy gravel (GM)	
							26		17		Dry/slightly moist, arkosic, massive. No odor; No staining	
							26		16		Pale orange	
							27				DVM _{H5} 0.0 ppm to pink	
							28					
SC GC	10YR 5/4	Wet @29.5		MASS	0.0	NO	29		13		29.0 to 30.5 Clayey sand/Clayey	
							30	75%	14		Sandy gravel, moderate yellowish brown (10YR 5/4) wet @ 29.5 ft	
		SAT					31		15		Massive, poorly sorted. No odor; No staining.	
							32				OVM _{H5} 0.0 ppm @ 20.5' Saturated	
							33					
GC	10YR 6/6	Wet		MASS	0.0	No	34		8		34.0 to 35.5 Clayey Sandy Gravel	
							35	95%	13		(GC) Orange, wet, massive well rounded/subrounded,	
							35		15		No apparent odor; No staining	
							36				OVM: 0.0 ppm @ 35.5 ft	

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 2

Test/Well Number: **RW6-1** Project: **Hartwig, W.S. 6 Bridges**
Date: **12/12/11** Project Number: **0011**
Logged By: **James Hix** Drilled By: **Dakota Drilling/Recksoil**
Drilling Method: **HSA CME50** Sampling Method: **Splitspoon**

Elevation: Detector: **DVM5800** Seal: **Bentonite** Grout: **concrete**
Gravel Pack: **10-20 Silica Sand** Hole Dia.: **7/4** F. L. Meter: **N/A**
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **20** DTP: **ND** DTW: **25**
Screen Type: **SCH40 PVC Slot: 0.010** Diameter: **2"** Length: **10** Well Depth: **30** Total Depth: **30**

10:00

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
GC	10YR	dry		MASS		NO			100	22 28	0.0 to 2.0 Weeds - Dark Gray/Bm soil Gravelly clay, Dusky yellow brown, Dry, massive No odor, No staining, fill.	
CL	10YR 5/4	dry		MASS		NO			100	18 26	(California tube) 4.0 to 6.0 Sandy silty clay w/ trace gravel. Increasing w/ depth, Dry, massive. wall fill. No odor, NO staining	
SC	10YR 5/5	dry		MASS	0.0	NO			100	10 10 7 5	10.0 to 11.5 feet (splitspoon) Sandy clay (SC), Dusky yellow brown (10YR 5/5), massive, fill. No odor, No staining. OVM HS 0.0 ppm @ 11.5 ft.	
GC GM	10YR 5/4 5YR	dry		MASS	0.0	NO			75%	30 11	15.0 to 16.0' (California Tube) (GC) Arkosic gravel, to Gravelly silt & Sand mixtures (GM), Dry, massive No apparent odor, No staining OVM HS 0.0 ppm @ 16 ft	
SM	5YR	dry		SBK		NO			40%	8 9	20.0 to 21.5 ft Arkosic Sandy Silt w/ trace gravel. Dry (SM)	

10:30

10:45

10:50

LOCATION MAP

See Pg 1



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: RW6-1

Project: Hartman U.S. 6 Bridge

Date: 12/12/11

Project Number: 011

Logged By: James Hix

Drilled By: Dakota Drilling

Drilling Method: HSA CME 50

Sampling Method: Split Spoon

Elevation:

Detector: OVM 580B

Seal: Bentonite

Grout:

Gravel Pack: 10-20 Silica Sand (30 ft - 18 ft)

Hole Dia.: 7 3/4"

F. L. Meter: N/A

Casing Type: Schedule 40 PVC

Diameter: 2"

Length: 20 ft

DTP: ND

DTW: 25 ft

Screen Type: Sch 40 PVC Slot: 0.010

Diameter: 2"

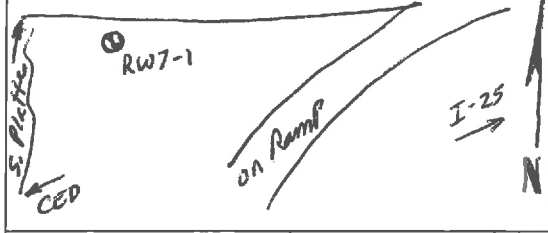
Length: 10 ft

Well Depth: 30 ft

Total Depth: 30 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
SM	5YR	DRY		SBK MASS	0.0	NO	21			13	20 to 21.5 ft (continued)	
							22				Arkosic sand & silt (SM) Dry	
							23				Subangular blocky to massive, No odor, No staining OVM _{H5} 0.0	
							24				@ 21.5 ft gravelly silty sand	
11:00 GM	5YR	WET I		SBK FINE	0.0	NO	25		50%	19	25.0 to 26.0 (California tube)	
							26		10%	12	Arkosic sand, silt, gravel, wet I	
							27	11:14	10%	9	Subangular blocky to well rounded, poorly sorted, large rock 1 1/2" dia in brass sleeve	
							28		11%	11	OVM _{H5} 0.0 ppm @ 25-26.5 ft	
							29				(Sample split spoon 26-27.5 ft)	
							30			19	30.0 to 31.5 ft (split spoon)	
11:25 GC	10YR 5/4	WET		SBK WET FINE	0.0	NO	31		80%	21	Arkosic gravel, sandy silty clay, mod. yellow brown, wet	
							32		10%	19	Subangular to well rounded	
							33				No odor; No staining	
							34				OVM _{H5} 0.0 ppm @ 31.5 ft	
							35					

LOCATION MAP Hwy 6



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: RW7-1 Project: Hartwig US 6 Bridges
Date: 12/20/11 Project Number: 011-2359 200 200002
Logged By: James Hix Drilled By: Dakota Drilling (Blake)
Drilling Method: HSA CMSS Sampling Method: Split spoon

Elevation: _____ Detector: OVM 580B Seal: Bentonite Grout: Quikrete
Gravel Pack: 10-20 Silica Sand (30' to 13') Hole Dia.: 7/4" F. L. Meter: N/A
Casing Type: Schedule 40 PVC Diameter: 2" Length: 15 DTP: ND DTW: 18 ft 2 1/2"
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 15 Well Depth: 30 Total Depth: 30

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
CL								0			0.0 ft - Gravelly clay fill material	
								1	95%	15/30	Dusky yellowish brown dry clay OVM _{HS} 0.0 ppm @ 2.0 ft	
GC	10YR	Dry		MASS	0.0	NO		2			2.0 to 4.0 ft gravelly clay, mod. yellow brown, dry, massive	
(SM)					0.0	NO		3	98%	7/8	No apparent odor; No staining	
								4		15/12	fine sand at bottom (shelby tube)	
								5			OVM _{HS} 0.0 ppm @ 4.0 ft	
								6			grayish brown cuttings fill	
								7			NO odor; NO staining	
SM	10YR 6/4	moist		MASS	0.0	NO		8			9.0 to 10.0 ft clayey silty sand	
								9	100%	4/5	v. fine grained, dusky yellowish brown, moist, massive	
								10			No apparent odor. NO staining	
								11			OVM _{HS} 0.0 ppm @ 9 ft	
								12				
GM	10YR 5/4	Dry		MASS	0.0	NO		13			14.0 to 15.0 ft silty sandy gravel (GM)	
								14	50%	13%/13.12"	Coarse, Arkosic, well graded angular, Dry, massive	
								15			OVM _{HS} 0.0 ppm @ 14 ft No odor	
								16			NO staining.	
								17			17.0 to 19.0 ft (split spoon) (GM)	
GM		WET		MASS	0.0	NO		18	50%	5/5	Sandy Gravel, well rounded Gr. Arkosic, wet, massive, well graded (poorly sorted)	
								19	12/20/11 12:50	5/8	OVM _{HS} 0.0 ppm @ 19 ft	
								20			NO odor, NO staining.	

LOCATION MAP

See page 1



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: RW7-1 Project: Hartwig US6 Bridges
Date: 12/20/11 Project Number: 011-2359
Logged By: James Hix Drilled By: Dakota Drilling
Drilling Method: HSA CMESS Sampling Method: Split Spoon

Elevation: Detector: OVM 580B Seal: Bentonite Grout: Dry Kcrete.
Gravel Pack: 10-20 Silica Sand Hole Dia.: 7/4" F. L. Meter:
Casing Type: Schedule 40 PVC Diameter: 2" Length: 15 DTP: ND DTW: 21'2"
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 15 Well Depth: 30 Total Depth: 30

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION	
SM GM	5YR 7/4	SAT		MASS	0.0	NO	21		6		21.0 to 22.5 ft Quartz sand/Ark. 5YR 7/4, saturated, massive, NO odor; No staining OVM _{HS} 0.0 ppm @ 21.5 ft - 22.5 ft	<p>SAND PACK SCREEN Bottom CAP TD=30'</p>	
							22	65%	13	18			
							23						
							24						
							25						
							26						
							27						
GM		SAT					28		2		28.0 to 30.0 ft gravelly sand - sand gravel mix Qtz, arkasic, wet/saturate Bedrock - claystone, mod. yellow brown w/ orange mottles, Dry, Blocky structure, OVM _{HS} 0.0 ppm @ 30 ft No odor; No staining TD=30 ft		
Bdk	10YR 5/4	DRY		Blocky	0.0	NO	29	100%	15	17			
							30						
							31						

1. WELL PERMIT NUMBER:
2. WELL OWNER INFORMATION
NAME OF WELL OWNER: Colorado Department of Transportation
MAILING ADDRESS: 4201 East Arkansas Avenue
CITY: Denver STATE: CO ZIP CODE: 80222
TELEPHONE NUMBER: (303) 757 - 9011

3. WELL LOCATION AS DRILLED: NE 1/4, NE 1/4, Sec. 8, Twp. 4 [] N or [x] S, Range 68 [] E or [x] W
DISTANCES FROM SEC. LINES: 10 ft. from [x] N or [] S section line and 1,105 ft. from [] E or [x] W section line.
SUBDIVISION: Wier Addition, LOT, BLOCK, FILING (UNIT)
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, [] Zone 12 or [x] Zone 13
STREET ADDRESS AT WELL LOCATION: Northing: 4397301 m
Owner's Well Designation: RW1-2
Easting: 498315 m

4. GROUND SURFACE ELEVATION 5216 feet DRILLING METHOD HSA CME 55
DATE COMPLETED 12/09/11 TOTAL DEPTH 25 feet DEPTH COMPLETED 25 feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
0 to 2 ft	fill	clay	dk brn	
4 to 5 ft	sandy clay	sand-clay	med brn	
9 to 10 ft	silty clay	silt-clay	dk yel brn	
14 to 15 ft	silty sand/grv	sand/gr	yel orn	
17 to 19 ft	silty sand/grv	gravel	yel brn	V 19.5
19 to 21 ft	sand - gravel	gravel	yel brn	
24 to 26 ft	sand - gravel	gravel	yel brn	

6. HOLE DIAM (in.) From (ft) To (ft)
7 3/4 0 25

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2.0	PVC	Sch 40	0	10

PERFORATED CASING: Screen Slot Size (in): 0.010
2.0 PVC Sch 40 10 25

8. FILTER PACK: Material Silica Sand Size 10-20 Interval 8 to 25 ft
9. PACKER PLACEMENT: Type, Depth

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
Bentonite			8 ft - 2 ft	Gravity
Quikrete			2 ft - 0 ft	

Remarks:

11. DISINFECTION: Type N/A Amt. Used

12. WELL TEST DATA: [] Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.
TESTING METHOD
Static Level ft. Date/Time measured: Production Rate gpm.
Pumping Level ft. Date/Time measured Test Length (hrs)
Remarks:

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Olsson Associates Phone: (303) 237-2072 License Number:

Mailing Address: 4690 Table Mountain Drive #200

Signature: Print Name and Title James W. Hix - Senior Project Geologist Date 12/21/11

1. WELL PERMIT NUMBER:

2. WELL OWNER INFORMATION
 NAME OF WELL OWNER: **Colorado Department of Transportation**
 MAILING ADDRESS: **4201 East Arkansas Avenue**
 CITY: **Denver** STATE: **CO** ZIP CODE: **80222**
 TELEPHONE NUMBER: **(303) 757 - 9011**

3. WELL LOCATION AS DRILLED: **NE** 1/4, **NE** 1/4, Sec. **8**, Twp. **4** N or S, Range **68** E or W
 DISTANCES FROM SEC. LINES: **40** ft. from N or S section line and **490** ft. from E or W section line.
 SUBDIVISION: **Wier Addition**, LOT _____, BLOCK _____, FILING (UNIT) _____
Optional GPS Location: GPS Unit must use the following settings: Format must be **UTM**, Units must be **meters**, Datum must be **NAD83**, Unit must be set to **true N**, Zone 12 or Zone 13
 STREET ADDRESS AT WELL LOCATION: _____ Northing: **439738 m**
 Owner's Well Designation: **RW2-1**
 Easting: **498747 m**

4. GROUND SURFACE ELEVATION **5321** feet **DRILLING METHOD** **HSA CME 55**
DATE COMPLETED **12/07/11** **TOTAL DEPTH** **30** feet **DEPTH COMPLETED** **30** feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
0 to 2 ft	fill - gravel/clay	gravel clay	dk brown	
4 to 5 ft	clay	clay	dk yelbrn	
10 to 11 ft	clay/silty clay	clay	med brn	
15 to 16 ft	sand gravel	sandgravel	yel brn	
20 to 21 ft	gravel	gravel	yel brn	V - 20.5
21.5 to 22	clayey gravel	cl gravel	pink brn	
25 to 26 ft	clayey gravel	clay gravel	yel brn	
29 to 30 ft	clay sand/gr	clay gravel	yel brn	

6. HOLE DIAM (in.)

From (ft)	To (ft)
7 3/4	0

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2.0	PVC	Sch 40	0	10

PERFORATED CASING: Screen Slot Size (in): **0.010**

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2.0	PVC	Sch 40	10	30

8. FILTER PACK:	9. PACKER PLACEMENT:
Material Silica Sand	Type _____
Size 10-20	_____
Interval 8 ft to 30 ft	Depth _____

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
Bentonite			8 ft - 2 ft	Gravity
Sakrete			2 ft - 0 ft	Trowel

Remarks: _____

11. DISINFECTION: Type **N/A** Amt. Used _____

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.

TESTING METHOD _____

Static Level _____ ft. Date/Time measured: _____, Production Rate _____ gpm.
 Pumping Level _____ ft. Date/Time measured _____, Test Length (hrs) _____.

Remarks: _____

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Olsson Associates	Phone: (303) 237- 2072	License Number: _____
--	-------------------------------	-----------------------

Mailing Address: **4690 Table Mountain Drive #200**

Signature: _____	Print Name and Title James W. Hix - Senior Project Geologist	Date 12/21/11
------------------	--	-------------------------

1. WELL PERMIT NUMBER:

2. WELL OWNER INFORMATION
 NAME OF WELL OWNER: Colorado Department of Transportation
 MAILING ADDRESS: 4201 East Arkansas Avenue
 CITY: Denver STATE: CO ZIP CODE: 80222
 TELEPHONE NUMBER: (303) 757 - 9011

3. WELL LOCATION AS DRILLED: SW 1/4, SW 1/4, Sec. 4, Twp. 4 N or S, Range 68 E or W
 DISTANCES FROM SEC. LINES: 225 ft. from N or S section line and 300 ft. from E or W section line.
 SUBDIVISION: Wier Addition, LOT _____, BLOCK _____, FILING (UNIT) _____
Optional GPS Location: GPS Unit must use the following settings: Format must be **UTM**, Units must be **meters**, Datum must be **NAD83**, Unit must be set to **true N**, Zone 12 or Zone 13
 STREET ADDRESS AT WELL LOCATION: _____ Northing: 4397381 m
 Owner's Well Designation: RW3-2
 Easting: 498747 m

4. GROUND SURFACE ELEVATION 5321 feet **DRILLING METHOD** HSA CME 55
DATE COMPLETED 12/07/2011 **TOTAL DEPTH** 25 feet **DEPTH COMPLETED** 25 feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
<u>0-2 ft</u>	<u>sandy clay</u>	<u>clay</u>	<u>Yel-Brn</u>	
<u>2-5 ft</u>	<u>clayey gravel</u>	<u>gravel</u>	<u>Pink/Brn</u>	
<u>10-11ft</u>	<u>cobbles</u>	<u>cobbles</u>	<u>Pink/Brn</u>	
<u>16-18 ft</u>	<u>silty sand</u>	<u>sand</u>	<u>Yel/Orn</u>	<u>V - 15 ft</u>
<u>20-21ft</u>	<u>sand</u>	<u>sand</u>	<u>Yel-Brn</u>	
<u>24-25.5 ft</u>	<u>sand/bedrock</u>	<u>claystone</u>	<u>Blue-Gry</u>	
	<u>TKd - Denver Fm</u>			

6. HOLE DIAM (in.)

	From (ft)	To (ft)
<u>7 3/4</u>	<u>0</u>	<u>25</u>

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
<u>2.0</u>	<u>PVC</u>	<u>Sch 40</u>	<u>0</u>	<u>10</u>

PERFORATED CASING: Screen Slot Size (in): 0.010

	From (ft)	To (ft)
<u>2.0 PVC Sch 40</u>	<u>10</u>	<u>25</u>

8. FILTER PACK:

Material <u>Silica Sand</u>
Size <u>10-20</u>
Interval <u>8 ft to 25 ft</u>

9. PACKER PLACEMENT:

Type _____
Depth _____

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
<u>Bentonite</u>			<u>8 ft - 2 ft</u>	<u>Gravity</u>
<u>Sakrete</u>			<u>2 ft - 0 ft</u>	

Remarks: _____

11. DISINFECTION: Type N/A Amt. Used _____

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.

TESTING METHOD _____

Static Level _____ ft. Date/Time measured: _____, Production Rate _____ gpm.
 Pumping Level _____ ft. Date/Time measured _____, Test Length (hrs) _____.

Remarks: _____

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: <u>Olsson Associates</u>	Phone: <u>(303) 237- 2072</u>	License Number: _____
--	-------------------------------	-----------------------

Mailing Address: 4690 Table Mountain Drive #200

Signature: _____	Print Name and Title <u>James W. Hix - Senior Project Geologist</u>	Date <u>12/21/11</u>
------------------	--	-------------------------

1. WELL PERMIT NUMBER:
2. WELL OWNER INFORMATION
NAME OF WELL OWNER: Colorado Department of Transportation
MAILING ADDRESS: 4201 East Arkansas Avenue
CITY: Denver STATE: CO ZIP CODE: 80222
TELEPHONE NUMBER: (303) 757 - 9011

3. WELL LOCATION AS DRILLED: NE 1/4, NE 1/4, Sec. 8, Twp. 4, Range 68
DISTANCES FROM SEC. LINES: 180 ft. from N or S section line and 1,180 ft. from E or W section line.
SUBDIVISION: Wier Addition, LOT, BLOCK, FILING (UNIT)
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, Zone 12 or Zone 13
STREET ADDRESS AT WELL LOCATION: Northing: 4397249 m
Owner's Well Designation: RW5-1 Easting: 498254 m

4. GROUND SURFACE ELEVATION 5228 feet DRILLING METHOD HSA CME 55
DATE COMPLETED 12/09/11 TOTAL DEPTH 35 feet DEPTH COMPLETED 35 feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
0 to 2 ft	fill	silt-gravel	dk brn	
4 to 5 ft	gravelly clay	grvl clay	med brn	
9 to 10 ft	gravelly clay	grvl clay	dk yel brn	
14 to 15 ft	silty clay	silty clay	gray brn	
19 to 20 ft	clayey silt	clay silt	pale brn	
24 to 26 ft	sand - gravel	gravel	yel brn	
29 to 30 ft	clayey gravel	gravel	med brn	V - 29.5
34 to 35 ft	sandy gravel	gravel	orange	

6. HOLE DIAM (in.) From (ft) To (ft)
7 3/4 0 35

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2.0	PVC	Sch 40	0	20

PERFORATED CASING: Screen Slot Size (in): 0.010
2.0 PVC Sch 40 20 35

8. FILTER PACK: Material Silica Sand Size 10-20 Interval 35 to 19 ft
9. PACKER PLACEMENT: Type Depth

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
Bentonite			19 ft - 2 ft	Gravity
Quikrete			2 ft - 0 ft	

Remarks:

11. DISINFECTION: Type N/A Amt. Used

12. WELL TEST DATA: [] Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.
TESTING METHOD
Static Level ft. Date/Time measured: Production Rate gpm.
Pumping Level ft. Date/Time measured Test Length (hrs)
Remarks:

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Olsson Associates Phone: (303) 237-2072 License Number:

Mailing Address: 4690 Table Mountain Drive #200

Signature: Print Name and Title Date
James W. Hix - Senior Project Geologist 12/21/11

FORM NO. GWS-31 10/2011	WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Ste 821, Denver, CO 80203 Main (303) 866-3581 Fax (303) 866-3589	For Office Use Only
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1. WELL PERMIT NUMBER:

2. WELL OWNER INFORMATION
 NAME OF WELL OWNER: Colorado Department of Transportation
 MAILING ADDRESS: 4201 East Arkansas Avenue
 CITY: Denver STATE: CO ZIP CODE: 80222
 TELEPHONE NUMBER: (303) 757 - 9011

3. WELL LOCATION AS DRILLED: NE 1/4, NE 1/4, Sec. 8, Twp. 4 N or S, Range 68 E or W
 DISTANCES FROM SEC. LINES: 215 ft. from N or S section line and 500 ft. from E or W section line.
 SUBDIVISION: Wier Addition, LOT _____, BLOCK _____, FILING (UNIT) _____
Optional GPS Location: GPS Unit must use the following settings: Format must be **UTM**, Units must be **meters**, Datum must be **NAD83**, Unit must be set to **true N**, Zone 12 or Zone 13
 STREET ADDRESS AT WELL LOCATION: _____ Northing: 4397235 m
 Owner's Well Designation: RW6-1
 Easting: 498487 m

4. GROUND SURFACE ELEVATION 5212 feet **DRILLING METHOD** HSA CME 55
DATE COMPLETED 12/07/11 **TOTAL DEPTH** 30 feet **DEPTH COMPLETED** 31 feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
<u>0 to 2 ft</u>	<u>fill - gravel clay</u>	<u>gravel clay</u>	<u>dk brn</u>	
<u>4 to 5 ft</u>	<u>sand-silt-clay</u>	<u>silty clay</u>	<u>med brn</u>	
<u>10 to 11 ft</u>	<u>sandy clay</u>	<u>sand clay</u>	<u>dk yelbrn</u>	
<u>15 to 16 ft</u>	<u>silty sand</u>	<u>silt sand</u>	<u>pink brn</u>	
<u>20 to 21 ft</u>	<u>sandy silt</u>	<u>sand silt</u>	<u>pink brn</u>	<u>V - 25 ft</u>
<u>25 to 26 ft</u>	<u>sandy gravel</u>	<u>gravel</u>	<u>pink brn</u>	
<u>30 to 31 ft</u>	<u>sand gravel</u>	<u>gravel</u>	<u>yel brn</u>	

6. HOLE DIAM (in.) From (ft) To (ft)
7 3/4 0 31

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
<u>2.0</u>	<u>PVC</u>	<u>Sch 40</u>	<u>0</u>	<u>20</u>

PERFORATED CASING: Screen Slot Size (in): 0.010

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
<u>2.0</u>	<u>PVC</u>	<u>Sch 40</u>	<u>20</u>	<u>31</u>

8. FILTER PACK: Material Silica Sand Size 10-20 Interval 31 ft to 18 ft

9. PACKER PLACEMENT: Type _____ Depth _____

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
<u>Bentonite</u>			<u>18 ft - 2 ft</u>	<u>Gravity</u>
<u>Quikrete</u>			<u>2 ft - 0 ft</u>	<u>Trowel</u>

Remarks: _____

11. DISINFECTION: Type N/A Amt. Used _____

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.

TESTING METHOD N/A

Static Level _____ ft. Date/Time measured: _____, Production Rate _____ gpm.
 Pumping Level _____ ft. Date/Time measured _____, Test Length (hrs) _____.

Remarks: _____

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: <u>Olsson Associates</u>	Phone: <u>(303) 237- 2072</u>	License Number: _____
Mailing Address: <u>4690 Table Mountain Drive #200</u>		
Signature: _____	Print Name and Title <u>James W. Hix - Senior Project Geologist</u>	Date <u>12/21/11</u>

FORM NO. GWS-31 10/2011	WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Ste 821, Denver, CO 80203 Main (303) 866-3581 Fax (303) 866-3589	For Office Use Only
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1. WELL PERMIT NUMBER:		
2. WELL OWNER INFORMATION		
NAME OF WELL OWNER: <u>Colorado Department of Transportation</u>		
MAILING ADDRESS: <u>4201 East Arkansas Avenue</u>		
CITY: <u>Denver</u>	STATE: <u>CO</u>	ZIP CODE: <u>80222</u>
TELEPHONE NUMBER: <u>(303) 757 - 9011</u>		

3. WELL LOCATION AS DRILLED: <u>NW</u> ^{1/4} , <u>NW</u> ^{1/4} , Sec. <u>9</u> , Twp. <u>4</u> <input type="checkbox"/> N or <input checked="" type="checkbox"/> S, Range <u>68</u> <input type="checkbox"/> E or <input checked="" type="checkbox"/> W		
DISTANCES FROM SEC. LINES: <u>155</u> ft. from <input checked="" type="checkbox"/> N or <input type="checkbox"/> S section line and <u>256</u> ft. from <input type="checkbox"/> E or <input checked="" type="checkbox"/> W section line.		
SUBDIVISION: <u>Wier Addition</u> , LOT _____, BLOCK _____, FILING (UNIT) _____		
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM , Units must be meters , Datum must be NAD83 , Unit must be set to true N , <input type="checkbox"/> Zone 12 or <input checked="" type="checkbox"/> Zone 13		Owner's Well Designation: <u>RW7-1</u> Easting: <u>498743 m</u>
STREET ADDRESS AT WELL LOCATION:		Northing: <u>4307269 m</u>

4. GROUND SURFACE ELEVATION <u>5209</u> feet	DRILLING METHOD <u>HSA CME 55</u>
DATE COMPLETED <u>12/20/11</u> TOTAL DEPTH <u>30</u> feet	DEPTH COMPLETED <u>30</u> feet

5. GEOLOGIC LOG:					6. HOLE DIAM (in.)		
Depth	Type	Grain Size	Color	Water Loc.	From (ft)	To (ft)	
<u>0 to 2 ft</u>	<u>fill - gravel clay</u>	<u>gravel clay</u>	<u>dk brn</u>		<u>7 3/4</u>	<u>0</u>	<u>30</u>
<u>2 to 4 ft</u>	<u>gravelly clay</u>	<u>gravel clay</u>	<u>med brn</u>				
<u>9 to 10 ft</u>	<u>clay-silt-sand</u>	<u>clay-sand</u>	<u>dk yelbrn</u>				
<u>14 to 15 ft</u>	<u>sandy gravel</u>	<u>gravel</u>	<u>yel brn</u>				
<u>17 to 19 ft</u>	<u>sandy gravel</u>	<u>gravel</u>	<u>pink brn</u>				
<u>21 to 22 ft</u>	<u>gravelly sand</u>	<u>sand</u>	<u>pink brn</u>				
<u>28 to 29.5</u>	<u>gravelly sand</u>	<u>gravel</u>	<u>yel brn</u>				
<u>29.5-30 ft</u>	<u>claystone bedrock (TKd)</u>	<u>yel brn</u>					

7. PLAIN CASING:				
OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
<u>2.0</u>	<u>PVC</u>	<u>Sch 40</u>	<u>0</u>	<u>15</u>
PERFORATED CASING: Screen Slot Size (in): <u>0.010</u>				
<u>2.0</u>	<u>PVC</u>	<u>Sch 40</u>	<u>15</u>	<u>30</u>

8. FILTER PACK: Material <u>Silica Sand</u> Size <u>10-20</u> Interval <u>30 ft to 13 ft</u>	9. PACKER PLACEMENT: Type _____ Depth _____
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10. GROUTING RECORD				
Material	Amount	Density	Interval	Placement
<u>Bentonite</u>			<u>13 ft - 2 ft</u>	<u>Gravity</u>
<u>Quikrete</u>			<u>2 ft - 0 ft</u>	<u>Trowel</u>

11. DISINFECTION: Type <u>N/A</u> Amt. Used _____
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12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.	
TESTING METHOD <u>N/A</u>	
Static Level _____ ft.	Date/Time measured: _____, Production Rate _____ gpm.
Pumping Level _____ ft.	Date/Time measured _____, Test Length (hrs) _____.
Remarks: _____	

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: <u>Olsson Associates</u>	Phone: <u>(303) 237- 2072</u>	License Number: _____
Mailing Address: <u>4690 Table Mountain Drive #200</u>		
Signature: _____	Print Name and Title <u>James W. Hix - Senior Project Geologist</u>	Date: <u>12/21/11</u>

APPENDIX ~

Limited Subsurface Investigation

August 2012



August 9, 2012

Privileged and Confidential

Marvinetta Hartwig
Hartwig & Associates
188 Inverness Drive West, Suite 675
Englewood, CO 80112

RE: Limited Subsurface Investigation and Temporary Groundwater Monitoring Well Installation, U.S. Highway 6 Bridges and Federal, Task Order 4, Denver, Colorado Olsson Associates Project #A11-2359

Dear Ms. Hartwig,

The letter presents the observations and results from a limited subsurface investigation and temporary monitoring well construction performed in June 2012 and a groundwater sampling event performed in July 2012 conducted per Olsson Associate's February 24 2012 scope of work for task order #4. These activities were conducted in connection with the re-construction and redevelopment of the U.S. Highway 6 Bridges near Federal Boulevard in the City and County of Denver. The twelve monitoring wells were located within the Colorado Department of Transportation (CDOT) and the City and County of Denver (CCD) right-of-ways near Barnum Park.

Limited Subsurface Investigation

The limited subsurface investigation was conducted on June 20, 21, 22, and June 25 2012 and included completion of test holes as the temporary monitoring holes MH-1, MH-2, MH-3, MH-4, (Barnum Park) MH-5, MH-6, (U.S. 6 E.B. right-of-way), MH-7, MH-8, MH-9 (U.S. 6 W.B. off ramp to Federal), MH-10 (CCD right-of-way), MH-11 and MH-12 (CDOT properties) as shown on Figure 1. The drilling and well completion work was performed by Site Services, Inc. of Golden, Colorado. Olsson personnel logged the borings to record the lithologies encountered, the depth to groundwater, and observed staining or odors that suggested petroleum hydrocarbon or chemical impacts. Copies of the lithologic logs for each boring are presented in Attachment A. A portion of each soil sample was placed into a sealable plastic bag, and the headspace in the bag was screened using a photoionization detector (PID) to assess for the presence of volatile organic compounds desorbed from the soil.

Olsson personnel oversaw the installation and completion of the temporary groundwater monitoring wells in each of the test holes. No evidence of petroleum hydrocarbon or chemical impacts was observed in any of the soil borings, except for MH-11 between 20 feet and 30 feet below ground surface (bgs). Monitoring hole MH-11 was located on a property CDOT owns that is between the Days Inn motel buildings on the northeast corner of the U.S. 6 off ramp and Federal Boulevard. Soil samples from depths of 20 feet to 30 feet bgs in MH-11 exhibited staining and had a petroleum hydrocarbon odor. Soil samples were collected from the interval at or above the groundwater table and also from the bottom of each boring. These were placed into laboratory provided glass sample jars and were submitted to ALS Laboratories in Houston, Texas for the analysis of the petroleum hydrocarbon constituents, benzene, toluene,

ethylbenzene, and total xylenes (BTEX) by Method SW 8260, total concentrations of the eight Resource Conservation and Recovery Act (RCRA) Metals by SW 6020/SW 7471A, and percent moisture by SW 3550. Additional analyses were requested for the impacted soil samples collected from MH-11. The sample jars were labeled with the date, time, analytical parameters, and were placed into plastic coolers and stored on ice. The soil samples were shipped to ALS Laboratories in Houston, Texas following chain-of-custody protocols and custody seals.

Soil Analytical Results

The BTEX and percent moisture results are shown on Table 1. The percent moisture results allows the laboratory more accurately measure concentrations of the potential compounds of concern by correcting for the moisture content of the sample. The reported BTEX results are compared to the Colorado Soil Evaluation Values (CSEV) established by the Colorado Department of Public Health and Environment (CDPHE) as voluntary soil cleanup standards (July 2011) as part of the Voluntary Cleanup Program. The most stringent soil cleanup standards are usually the groundwater protection level or residential soil standards which are based on toxicology data and potential routes of exposure. These are not enforceable standards like the groundwater maximum contaminant levels (MCLs) used for drinking water, or the equivalent Colorado Basic Water Quality Standards. Copies of the soil analytical results are included in Attachment B.

Volatile Organic Compounds

The laboratory analytical results reported that benzene concentrations were not detected at or above the laboratory reporting limit of 0.005 milligrams per kilogram (mg/kg) in 23 of the 24 soil samples. The laboratory results for the soil sample collected from MH-11 at 30 feet bgs reported benzene at 1.70 milligrams per kilogram (mg/kg), is above is above the groundwater protection benzene standard of 0.17 mg/kg. The benzene result in this soil sample is also above the residential soil cleanup standard for benzene of 1.2 mg/kg and the worker cleanup standard of 1.6 mg/kg; however, exposure to the residential public or construction workers is unlikely due to the depth at which the soil sample was collected. Benzene is a compound of concern due to potential migration to groundwater.

The results for the MH-11 at 30 feet bgs soil sample also show that ethylbenzene was detected at 1.9 mg/kg, and total xylenes were detected at 1.90 mg/kg; however, these concentrations are well below the soil – groundwater protection levels of 100 mg/kg for ethylbenzene, and 75 mg/kg for xylenes. The residential soil levels for ethylbenzene are 6 mg/kg and for xylenes 710 mg/kg, but again due to the depth at which the sample was collected and low concentrations, ethylbenzene and xylenes are not considered to be compounds of concern.

Concentrations of toluene were reported above the laboratory reporting limit in soil samples MH-9 at 24 feet bgs (0.0065 mg/kg), in MH-11 at 20 feet bgs (0.011 mg/kg), and MH-11 at 30 ft bgs (0.340 mg/kg). Toluene concentrations were reportedly detected at or above the method detection limit, but less than the laboratory reporting limit in soil samples MH-11 at 39 ft bgs (0.0039 mg/kg J), MH-10 at 29 ft bgs (0.0022 mg/kg J), and MH-10 at 34 ft bgs (0.0044 mg/kg J). The “J” qualifier indicates that these results are estimated toluene concentrations below the laboratory reporting limit. The toluene groundwater protection standard is 50 mg/kg in soils, therefore toluene is not considered a compound of concern.

RCRA Metals

The soil samples were also submitted for total metal concentrations of the eight RCRA metals and the soil results are presented in Table 2. The results indicated that arsenic was detected in concentrations that exceed the arsenic residential soil standard of 0.39 mg/kg in all 24 of the soil samples submitted. The laboratory reported arsenic concentrations that ranged from 0.805 mg/kg to 2.68 mg/kg. The laboratory reports for soil samples are included in Attachment B.

The EPA Region 8 collected 2,700 background soil samples that were analyzed for arsenic in 44 counties in Colorado. The results indicated that the average arsenic concentration in soils for all land uses was 11 mg/kg and 19 mg/kg in urban mixed use areas. These arsenic concentrations are likely due to naturally occurring arsenic in the soils. In a June 2011 guidance document, the CDPHE HMWMD indicates that if the concentrations of arsenic are less than 11 mg/kg, and there are no apparent anthropogenic sources, then arsenic is not considered a compound of concern in subsurface soils.

The soil samples were collected at depths of 15 feet to 39 feet bgs, so anthropogenic sources of the metal impacts are unlikely. Table 2A shows a comparison of the metals concentrations with surficial soil samples that represent natural background in Colorado and the Western United States. The concentrations of arsenic range in Colorado soils ranged from 1.3 parts per million (ppm) to 16 ppm out of 58 samples, with an arithmetic mean of 6.1 ppm and a standard deviation of 3.0 ppm (Dragun and Cherkiri, 2005). Arsenic concentrations in the western United States ranged less than 0.1 ppm to 97 ppm with a mean of 5.2 ppm and a standard deviation of 2.3 ppm (Shacklette and Boerngen, 1984). In soils, ppm is equivalent to mg/kg.

The laboratory reported that concentrations of barium were detected in all 24 soil samples, but all of the laboratory results are well below the residential soil standard of 15,000 mg/kg. The total barium results ranged from 15.7 mg/kg (MH-6 at 35 ft) to 299 mg/kg (MH-5 at 20 ft). The reported barium concentrations suggest that barium in soils is not a compound of concern in subsurface soil.

Cadmium concentrations were not detected in five soil samples (MH-5 at 30 ft, MH-6 at 35 ft, MH-7 at 29 ft, MH-12 at 16 ft, or MH-12 at 23 ft). The results reported for the other 19 soil samples are qualified with a "J" as an estimated value indicating that the cadmium concentrations were detected above the MDL, but below the laboratory reporting limit. Cadmium was not detected at or above the MDL in five of the 24 soil samples. All of the cadmium results are well below the CSEV residential soil standard of 70 mg/kg, so cadmium is not considered a compound of concern in subsurface soil.

The laboratory reported that concentrations of chromium were detected in all 24 of the soil samples submitted from monitoring holes MH-1 through MH-12. The chromium concentrations ranged from 1.43 mg/kg (MH-12 at 16 ft) to 11.4 mg/kg (MH-7 at 20 ft). All of the reported chromium results are well below the CSEV residential soil limit of 120,000 mg/kg; and therefore, chromium is not considered a compound of concern in the subsurface soil.

The laboratory reported that lead concentrations were detected in all 24 of the soil samples. The lead concentrations ranged from 1.89 mg/kg (MH-12 at 23 ft) to 10.4 mg/kg (MH-10 at 29 ft).

The total lead concentrations are all well below the CSEV residential soil standard of 400 mg/kg; and therefore lead is not considered a compound of concern in the subsurface soil.

The laboratory did not analyze the soil samples for total mercury and this was not discovered until after the holding time for analysis had lapsed. Olsson requested that the soil samples be analyzed for total mercury even though they were after the holding time had lapsed. Unlike volatile hydrocarbons the mercury concentration in the samples is not expected to have changed significantly. Subsequent groundwater samples were analyzed for mercury and within the holding time limits. Mercury was not considered a compound of concern as a result of the previous soil sampling effort conducted in December 2011.

The laboratory reported concentrations of selenium were detected in ten of the 24 soil samples. Selenium was reportedly detected at concentrations above the MDL, but below the RL in the remaining 14 soil samples and the results are qualified with a "J" indicating that it is an estimated value. The reported selenium concentrations are all well below the CSEV residential soil standard for selenium of 390 mg/kg. Therefore, selenium is not considered a compound of concern in subsurface soil.

The laboratory reported that concentrations of silver were not detected in any of the 19 soil samples submitted. The laboratory results show that silver was detected above the MDL but below the RL in five of the 24 soil samples. These results are qualified with a "J" meaning that they are estimated values. The silver concentrations range from 0.0726 mg/kg (J) to 0.165 mg/kg J. Therefore, silver does not appear to be an issue with any of the soils, and the laboratory reporting limit of approximately 0.5 mg/kg is well below the CSEV residential soil standard of 390 mg/kg. Silver is not considered to be compound of concern in subsurface soil.

Temporary Groundwater Monitoring Hole Installation

Olsson personnel filed a notice of intent with the Colorado State Engineer's Office at least three days prior to the drilling. The temporary monitoring holes were constructed in accordance with the applicable Colorado State Engineer's Office requirements. Olsson personnel called the Utility Notification Center of Colorado (UNCC) to request that underground utilities be located and marked at least three business days prior to the drilling. Olsson met with utility locators and with representatives of the CCD parks and recreation department onsite prior to drilling to discuss the proposed drilling locations. Olsson notified other underground utility owners directly who are not members of the UNCC system and obtained the necessary permits from both the CCD and CDOT.

The temporary monitoring holes were constructed inside 8 ¼ inch diameter bore holes drilled by Site Services Inc. using a Central Mining Equipment (CME) 75 drill rig and hollow stem augers. Olsson personnel directed the drilling program, logged the bore holes for lithologies encountered, depth to groundwater, evidence of petroleum or chemical impacts, and collected soil samples for laboratory analysis.

All twelve borings were completed as temporary groundwater monitoring wells, using 2-inch diameter schedule 40 polyvinyl chloride (PVC), 0.010-inch factory slotted screen, and 2-inch diameter schedule 40 PVC blank pipe casing. The total depths ranged from 25 feet bgs to 40 feet bgs. Between 10 feet to 15 feet of screen were used in each well. A threaded bottom cap

was installed at the base of the screen section. The annulus around the screen from the bottom of the boring was filled with 10-20 silica sand.

The sand pack was brought up to two feet above the top of the well screen. The remaining annular space in the wells around the blank PVC pipe casing was filled with 3/8-diameter bentonite crumbles up to approximately one foot bgs. Potable water was used to hydrate the bentonite to form a seal in the well annulus. The PVC casing was capped with a locking, expandable J-plug. The top of each well was completed with a flush-mounted, traffic rated well box with a removable bolted cover. The well flush-mounted well box was grouted in place using quick setting concrete to protect the wells.

Groundwater Sampling

Groundwater level measurements were recorded in each of the monitoring holes on July 9, 2012. The depth to groundwater ranged from 8.87 feet bgs in MH-4 to 36.56 feet bgs in MH-5. Olsson personnel also measured groundwater levels in the monitoring wells installed in December 2011 within the retaining wall geotechnical borings along U.S. Highway 6 east of Federal Boulevard. The fluid levels were taken to enable the preparation of groundwater contour maps of the area, as shown on Figure 2 and Figure 3.

Grab groundwater samples were collected on Tuesday July 10, 2012. The grab groundwater samples were collected using dedicated, disposable bailers and nylon rope. The samples were placed into laboratory provided containers and were shipped on ice to ALS Laboratories in Houston, Texas following chain-of-custody protocols and custody seals. The groundwater samples were submitted for laboratory analysis of BTEX by SW 8260, Oil & Grease E 1664, gasoline range organics (GRO) SW 8015, diesel range organics (DRO) SW 8015M, oil range organics (ORO) SW 8015M, total concentrations of the 8 RCRA metals SW 6020/SW 7471A, pH by E150.1, Total Suspended Solids (TSS) M2540D, and E.Coli by SM 9221F. The E.Coli samples were analyzed by Industrial Laboratories in Wheat Ridge, Colorado.

Field parameters for pH and dissolved oxygen were measured in the field for the new monitoring hole locations prior to sampling. The pH values for all twelve temporary wells were within the acceptable range of 6 to 9 standard pH units. The dissolved oxygen readings were also within expected ranges. Specific conductance and oxidation-reduction potential (ORP) were not measured. The fluid level measurements and field data are presented in Table 3.

Groundwater Analytical Results

Groundwater samples were collected for laboratory analysis of the volatile organic compounds, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and for total petroleum hydrocarbon ranges, which included gasoline range organics (GRO), diesel range organics (DRO), oil range organics (ORO), and oil and grease. The samples were also submitted for laboratory analysis of pH, TSS, and E.Coli. The results are reported in the following sections and are included in Table 4 through Table 6. Copies of the groundwater sample analytical results are included as Attachment C.

Benzene, Toluene, Ethylbenzene, and total Xylenes in Groundwater Results

The groundwater analytical results show that low concentrations of benzene, toluene, ethylbenzene, and total xylenes were not present in the groundwater samples collected from the eleven of the twelve temporary groundwater monitoring holes. The results for the MH-11

groundwater sample show that benzene concentration of 0.2 milligrams per liter (mg/L) is above the MCL of 0.005 mg/L. Concentrations of toluene, ethylbenzene, and total xylenes were detected in the MH-11 sample, but were reported at concentrations that did not exceed their respective MCLs. Benzene is a compound of concern in groundwater since it exceeds the MCL.

Total Petroleum Hydrocarbons in Groundwater Results

ALS Laboratory reported that gasoline range organics (GRO) concentrations were not detected in eleven of the twelve samples. The GRO results for the MH-11 groundwater sample showed that GRO was detected at 1.09 mg/L. Low levels of diesel range organics (DRO) were detected in all of the groundwater samples. The DRO results ranged from 0.049 mg/L in the MH-8 sample to 4.2 mg/L in MH-11 groundwater sample and 4.7 mg/L in the MH-12 groundwater sample. Low levels of oil range organics (ORO) were detected in 11 of the 12 groundwater samples. Concentrations of ORO were not detected in the MH-8 groundwater sample. The ORO concentrations ranged from 0.21 mg/L in the MH-5 groundwater sample to 8.4 mg/L in the MH-10 groundwater sample. Since these parameters are not compound specific they do not have enforceable cleanup levels. They do provide information about the range of hydrocarbons which can aid in identifying a source, or whether additional analyses may be warranted.

Concentrations of oil and grease were not detected at or above the laboratory reporting limit of 2 mg/L in groundwater samples collected from MH-5, MH-6, MH-9, MH-10, or MH-12.

Concentrations of oil and grease were reported above the MDL, but were not above the RL in groundwater samples from MH-1, MH-3, MH-4, MH-7, and MH-8. Concentrations of oil and grease were detected in the MH-2 groundwater sample at 2.20 mg/L, which is slightly above the laboratory reporting limit. Since this parameter is not compound specific there is no enforceable cleanup level; however, a visible sheen is a trigger for reporting a release or collecting oil and grease from a waste water sample for permitted waste water discharges. No visible sheens were noted in the field logbook during the groundwater sampling activities conducted on July 10, 2012. Oil and grease does not appear to be a concern since there was only one sample result that was slightly above the laboratory reporting limit.

RCRA Metal Groundwater Results

Groundwater results for the eight RCRA metals are shown on Table 5. The laboratory analytical results for total metal concentrations of the eight RCRA metals show that concentrations of mercury and silver were not detected, were present at concentrations above the MDL but less than the laboratory RL, or were detected but were at concentrations that do not exceed the state water quality standards.

Concentrations of arsenic were reported in eleven of the twelve groundwater samples, and were detected above the MDL in the groundwater sample from MH-9 at 0.00167 mg/L (J). The reported concentrations in nine of the twelve wells exceed the water quality standard of 0.01 mg/L arsenic. Since the soil data suggests that natural background arsenic in the soils is high, the concentrations of arsenic in the groundwater are also expected to be high.

Concentrations of barium were reported in all twelve groundwater samples, and results for five of the groundwater samples exceeded the water quality standard of 2.0 mg/l barium. The barium concentrations ranged from 0.157 mg/L in the MH-7 groundwater sample to 7.12 mg/L in the MH-12 groundwater sample.

Concentrations of cadmium were reported at or above the RL in five of the groundwater samples. The reported cadmium concentrations in the MH-5 and MH-6 groundwater samples were 0.00966 mg/L and 0.00539 mg/L, respectively, which are above the water quality standard of 0.005 mg/L. Cadmium concentrations were estimated above the MDL but below the RL in four of the groundwater samples, and cadmium was reportedly not detected in three of the groundwater samples.

Concentrations of chromium were reported at or above the RL in eleven of the twelve groundwater samples, and exceeds the water quality standard of 0.1 mg/L in nine of these samples. The results for chromium in the groundwater samples ranged from 0.0225 mg/L in the MH-2 groundwater sample to 0.524 mg/L in the MH-5 groundwater sample. The groundwater sample collected from MH-9 had an estimated concentration of chromium at 0.00324 mg/L.

Concentrations of lead were reported at or above the RL in eleven of the twelve groundwater samples and exceeded the water quality standard of 0.05 mg/L in seven of these samples. The results ranged from 0.00949 mg/L in the MH-7 groundwater sample to 0.489 mg/L in the MH-12 groundwater sample. The laboratory reported that lead in the MH-9 groundwater sample was estimated at a concentration of 0.00324 mg/L which was above the MDL, but less than the RL.

Concentrations of selenium were reported at or above the RL in all twelve of the groundwater samples submitted, and exceeded the water quality standard of 0.02 mg/L selenium in eight of the twelve groundwater sample results.

Total Suspended Solids, pH, and E. Coli Groundwater Results

The TSS laboratory results range from 1,530 mg/L in the MH-4 groundwater sample to 29,100 mg/L in the MH-5 groundwater sample. The TSS results may be skewed since the monitoring wells were not developed prior to collecting grab groundwater samples. Developing the wells may significantly reduce the TSS and total RCRA metal concentrations by removing suspended sediments.

Since pH is temperature dependent it has an immediate holding time; and is therefore, recommended that it be measured in the field. Olsson personnel collected field measurements of pH in the field which are presented in Table 4. The laboratory results for all twelve samples are qualified with an "H" meaning that the samples exceeded holding time. However, all of the results are consistent with the range of pH values obtained in the field and there were no pH values that fell outside the acceptable range of 6 to 9 standard pH units.

Groundwater samples from eleven of the wells were submitted to Industrial Laboratories for analysis of E. Coli bacteria. The bottle for the MH-4 E. Coli sample was broken in the field and the well was not sampled. The results show that E. Coli was not detected in eight of the groundwater samples with a reporting limit of 2 most probable number of coliform bacteria per milliliter (MPN/mL). The analytical results show that E. Coli were reported at 2 MPN/mL in both the MH-3 and MH-12 groundwater samples and that the highest concentration was 4 MPN/mL in the MH-6 groundwater sample. The results suggest that E. Coli is not a significant concern.

Conclusions

The following conclusions are based on a comparison of the laboratory analytical results for soil and groundwater samples from the twelve monitoring holes with applicable soil and water quality standards. Copies of select photographs showing the drilling of the monitoring holes are presented in Attachment D. The soils were collected from the interval at or above the water table, and from the total depth of the boring. Grab groundwater samples were collected without developing the wells. Therefore, the TSS and RCRA metals results may be skewed by the presence of sediment in the samples. The wells were not developed due to not having a place to dispose of the groundwater purge since the wells were located within the right-of-way of U.S. Highway 6 and CCD Barnum Park property.

Benzene

The benzene concentrations in the soil and groundwater samples collected from MH-11 indicate that benzene is a compound of concern. Monitoring hole MH-11 is located on the northwest corner of the CDOT property that is bound by a sidewalk along Federal Boulevard to the west, and surrounded by the Days Inn motel property to the north, east, and south. There is a parking lot directly to the north of the site. The source of these impacts is unknown and could be related to past property usage or from migration of impacted groundwater beneath the property. Due to the depth of the impacts, which were encountered between 20 feet and 30 feet bgs, it is unlikely that these soils pose a significant human health risk to residential or workers unless the soils are excavated. Additional investigation may be warranted to assess the potential sources of the impacted soils and groundwater.

Other analytes, such as toluene, ethylbenzene, and xylenes, were detected in the groundwater sample; however, these parameters are at concentrations that are below their respective groundwater cleanup levels or residential or worker exposure levels, and not of concern. The results also indicate that there are low levels of GRO, DRO, and ORO in the groundwater.

Total RCRA Metals

Arsenic was the only RCRA metal in the subsurface soil samples that was reported above the CSEV Table residential and worker protection levels based on human health risks; however, these concentrations are only applicable to direct ingestion, dermal contact, or inhalation of associated particulates or vapors. Groundwater Protection Levels are listed as "NA" - not applicable since use of the table does not allow for the calculation of a soil concentration. Groundwater results for the of the RCRA metals, arsenic, barium, cadmium, chromium, lead, and selenium, exceed the Colorado Basic Groundwater Standards in several the groundwater samples. The wells were not developed or purged prior to sampling and were likely very turbid, which may have resulted in the elevated metals concentrations. The Colorado Basic Water Quality Standards and MCLs are based on total metals concentrations and therefore, the groundwater samples were not filtered. The TSS numbers are high which suggests that the groundwater samples were turbid due to the wells not being developed prior to sampling.

The elevated total metals concentrations of arsenic, barium, cadmium, chromium, and selenium could pose a problem for disposal if groundwater is encountered during excavation, and if excavation dewatering is required. The CDPHE WQCD may require that the water be treated prior to discharge if the water will be discharged to the South Platte River. The temporary

monitoring wells should be properly abandoned and well abandonment forms should be submitted to the Colorado State Engineer's Office if they are no longer needed.

Olsson appreciates this opportunity to be of service in performing this limited subsurface investigation and groundwater monitoring for Hartwig and Associates. Please contact me at (303) 237-2072 if you have any questions.

Sincerely,

Olsson Associates



James W. Hix
Senior Geologist

Attachments

REFERENCES:

Dragun, James Ph.D., and Chekiri, Khaled, Ph.D., 2005, Elements in North American Soils, Second Edition, Amherst Scientific Publishers, Amherst, MA

Flynn, Jennifer L., 2003, Ground-Water-Quality Assessment of Shallow Aquifers in the Front Range Urban Corridor, Colorado 1954-98, United States Geological Survey, WRI Report 02-4247, USGS Denver, CO

Shacklette, Hansford T., and Boerngen, Josephine G., 1984, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, United States Geological Survey Professional Paper 1270, United States Government Printing Office, Washington, D.C.

TABLES

Table 1

Soil Analytical Results - Volatiles
U.S. 6 Bridges at I-25 and Federal Blvd.
Denver, Colorado

Sample ID and depth (feet)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Percent Moisture (wt%)
CSEV Table residential		1.2	4700	6	710	N/A
CSEV Table worker		1.6	24000	7.8	1000	N/A
CSEV Table GW Protection Level		0.17	50	100	75	N/A
MH-1 @ 20ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	26.1
MH-1 @ 34 ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	17.5
MH-2 @ 20ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	22.7
MH-2 @ 30ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	19.6
MH-12 @ 16ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	1.73
MH-12 @ 23ft	6/20/12	< 0.005	< 0.005	< 0.005	< 0.015	7.77
MH-3 @ 20ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	21.5
MH-3 @ 24ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	27.5
MH-4 @ 15 ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	23.2
MH-4 @ 20 ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	18.3
MH-5 @ 20ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	26.0
MH-5 @ 30ft	6/21/12	< 0.005	< 0.005	< 0.005	< 0.015	1.63
MH-6 @ 35ft	6/22/12	< 0.005	< 0.005	< 0.005	< 0.015	14.6
MH-7 @ 20ft	6/22/12	< 0.005	< 0.005	< 0.005	< 0.015	22.0
MH-7 @ 29ft	6/22/12	< 0.005	< 0.005	< 0.005	< 0.015	10.6
MH-8 @ 20ft	6/22/12	< 0.005	< 0.005	< 0.005	< 0.015	28.8
MH-8 @ 24ft	6/22/12	< 0.005	< 0.005	< 0.005	< 0.015	23.7
MH-9 @ 15ft	6/25/12	< 0.005	< 0.005	< 0.005	< 0.015	23.6
MH-9 @ 24ft	6/25/12	< 0.005	0.0065	< 0.005	< 0.015	24.6
MH-11 @ 20ft	6/25/12	< 0.005	0.011	< 0.005	< 0.015	14.8
MH-11 @ 30ft	6/25/12	1.70	0.340	1.90	1.90	29.6
MH-11 @ 39ft	6/25/12	< 0.005	0.0039 J	< 0.005	< 0.015	24.6
MH-10 @ 29ft	6/25/12	< 0.005	0.0022 J	< 0.005	< 0.015	27.8
MH-10 @ 34ft	6/25/12	< 0.005	0.0044 J	< 0.005	< 0.015	25.6

Notes: CSEV – Colorado Soil Evaluation Values, Colorado Department of Public Health and Environment (CDPHE) Soil Cleanup Standards (July 2011)

The CSEV Table has values based on human health risk from direct ingestion of soil, dermal contact with soil, and inhalation from associated particulate or vapors in residential (general public) and for construction workers. These standards may not be applicable due to the depths at which these samples were collected unless excavation would expose the soils at these depths. The CSEV Table also has Groundwater Protection Levels for specific organic compounds which may be more applicable to this data set.

Values in bold exceed the residential soil standard

mg/kg – milligrams per kilogram

< - Analyte not detected above the laboratory reporting limit (RL)

J – indicates that the analyte was detected above the method detection limit (MDL), but below the laboratory reporting limit.

N/A – not applicable

NR – not reported

Percent Moisture in Weight Percent (wt %) Percent moisture is a parameter used to correct for the volume of volatile organic compounds in the soil samples.

Table 2

Soil Analytical Results – Total RCRA Metals
U.S. 6 Bridges at I-25 and Federal Blvd.
Denver, Colorado

Sample ID and depth (feet)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
CSEV Table residential		0.39	15000	70	120000	400	13	390	390
CSEV Table worker		1.6	160000	770	1500000	800	160	5100	5100
CSEV Table GW Protection Level		NA	NA	NA	NA	NA	NA	NA	NA
MH-1 @ 20ft	6/20/12	2.16	134	0.131 J	7.71	8.57	NA	0.528	< 0.480
MH-1 @ 34ft	6/20/12	2.28	180	0.130 J	10.3	9.04	NA	0.805	< 0.457
MH-2 @ 20ft	6/20/12	2.03	187	0.120 J	6.72	7.75	NA	0.568	0.0726 J
MH-2 @ 30ft	6/20/12	2.28	209	0.139 J	8.98	8.50	NA	0.419 J	< 0.435
MH-12 @ 16ft	6/20/12	0.930	23.6	< 0.484	1.43	2.19	NA	0.431 J	< 0.484
MH-12 @ 23ft	6/20/12	0.841	25.0	< 0.441	1.59	1.89	NA	0.426 J	< 0.441
MH-3 @ 20ft	6/21/12	1.70	183	0.141 J	8.79	8.89	NA	0.560	< 0.450
MH-3 @ 24ft	6/21/12	2.23	258	0.273 J	8.10	8.31	NA	0.733	< 0.479
MH-4 @ 15 ft	6/21/12	1.95	168	0.122 J	8.38	7.74	NA	0.514	< 0.481
MH-4 @ 20 ft	6/21/12	3.22	286	0.0962 J	5.93	5.73	NA	0.409 J	< 0.483
MH-5 @ 20ft	6/21/12	2.05	299	0.132 J	6.98	7.30	NA	0.384 J	< 0.442
MH-5 @ 30ft	6/21/12	0.806	19.3	< 0.444	2.56	3.28	NA	0.278 J	< 0.444
MH-6 @ 35ft	6/22/12	0.805	15.7	< 0.432	3.98	2.14	NA	0.177 J	< 0.432
MH-7 @ 20ft	6/22/12	2.58	121	0.0900 J	11.4	9.84	NA	0.507	< 0.468
MH-7 @ 29ft	6/22/12	1.07	29.4	< 0.445	6.60	4.25	NA	0.408 J	0.165 J
MH-8 @ 20ft	6/22/12	2.37	103	0.0881 J	9.59	8.98	NA	0.440	< 0.434
MH-8 @ 24ft	6/22/12	1.64	278	0.0496 J	4.95	5.37	NA	0.310 J	< 0.451
MH-9 @ 15ft	6/25/12	1.63	183	0.101 J	6.86	8.98	5.20	0.221 J	0.0770 J
MH-9 @ 24ft	6/25/12	1.31	159	0.0917 J	7.98	6.86	3.88	0.482	< 0.468
MH-11 @ 20ft	6/25/12	2.16	118	0.159 J	6.99	9.86	4.33	0.324 J	< 0.467
MH-11 @ 30ft	6/25/12	1.68	223	0.183 J	7.65	8.48	5.44	0.541	0.159 J
MH-11 @ 39ft	6/25/12	1.31	75.8	0.102 J	6.28	7.54	3.97	0.244 J	< 0.468
MH-10 @ 29ft	6/25/12	2.68	168	0.437 J	8.35	10.4	5.40	0.318 J	< 0.462
MH-10 @ 34ft	6/25/12	1.71	193	0.179 J	8.19	10.4	4.12	0.233 J	0.0957 J

N/A – Not Applicable

NA – Not Analyzed (ALS Environmental Laboratory did not analyze for mercury in some of the soil samples although it was requested. Olsson has requested that these soil samples be analyzed for mercury outside of holding time.)

mg/kg – milligrams per kilogram

mg/L – milligrams per liter

J – Estimated concentration reported above the method detection limit (MDL) but below the reporting limit (RL)

< - Analyte not detected above the method detection limit (MDL)

Notes: CSEV – Colorado Soil Evaluation Values, Colorado Department of Public Health and Environment (CDPHE) Soil Cleanup Standards (July 2011)

Values in bold exceed the residential soil standard for arsenic.

(The CSEV table has Groundwater Protection Levels for organic compounds, but not for inorganic compounds. There are Leachate Reference Concentrations for arsenic (0.22 mg/L), barium (44 mg/L), cadmium (0.11 mg/L), chromium (2.2 mg/L), lead (1.1 mg/L), mercury (0.0011 mg/L), selenium (0.02 mg/L), and silver (0.05 mg/L). These are not directly comparable since the results are total metal concentrations reported in milligrams per kilogram rather than milligrams per liter. The leachate potential can be approximated by dividing the above results by 20.

Table 2A - Published Background Values

Comparison of Soil Analytical Results – Total RCRA Metals
U.S. 6 Bridges at I-25 and Federal Blvd.
Denver, Colorado

Reference	Statistics	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Mercury (ppm)	Selenium (ppm)	Silver (ppm)
Dragun & Chekiri 2005	Range	1.3 – 16	100 – 2000	ND – 11	3.0 – 100	ND – 100	0.01 – 1.30	< 0.1 – 26	< 0.5 – 1.5
	(N)	(58) ^{co}	(72) ^{co}	(778) ^{w. U.S.}	(72) ^{co}	(72) ^{co}	(58) ^{co}	(58) ^{co}	(168) ^{co}
	Mean	6.1	689	--	43	30	0.074	0.43	< 0.5
	Deviation	3.0	301	--	23	22	0.171	0.45	--
Shacklette & Boerngen, 1984	Range	< 0.1 – 97	70 – 5000	NA	< 0.1 – 4.3	< 10 – 700	< 0.1 – 4.6	< 0.1 – 4.3	NA
	(N)	(1257)	(1319)	NA	(1319)	(1319)	(1267)	(1267)	NA
	Mean	5.2	440	NA	0.23	17	0.046	0.23	NA
	Deviation	2.3	1.72	NA	2.43	1.8	2.33	2.43	NA

Notes:

ppm – parts per million (approximately mg/kg)

Range – range of sample results

(N) – Number of samples collected/analyzed (co – Colorado soils, w. U.S. – Western United States)

Mean – arithmetic mean

Deviation – Standard deviation

References:

Dragun and Chekiri, 2005, Elements in North American Soils, Second Edition, Amherst Scientific Publishers, Amherst, MA

Shacklette and Boerngen, 1984, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, USGS Professional Paper 1270, U.S. Government Printing Office, Washington, D.C.

Table 3

Groundwater Analytical Results – Field Parameters
U.S. 6 Bridges at I-25 and Federal Boulevard – Task Order 4
Denver, Colorado

Sample ID	Date Sampled	Depth to Water (ft-bgs)	Measuring Point Elevation (ft)	Approximate Groundwater Elevation (ft)	Temperature (°C)	Dissolved Oxygen (mg/L)	pH (s.u.)	Specific Conductance (mg/cm ³)	ORP
RW 1-2	01/04/2012	22.00	5214.27	5192.27	16.43	0.54	6.6	1.405	- 25.5
	07/09/2012	22.13		5192.14	NM	NM	NM	NM	NM
RW 2-1	01/04/2012	17.01	5209.19	5192.18	17.27	0.44	6.3	1.617	8.4
	07/09/2012	17.09		5192.10	NM	NM	NM	NM	NM
RW 3-2	01/04/2012	14.52	5208.11	5193.59	15.43	0.22	5.6	1.269	187.5
	07/09/2012	14.68		5193.43	NM	NM	NM	NM	NM
RW 5-1	01/04/2012	29.71	5222.43	5192.72	17.67	0.43	6.2	1.524	11.2
	07/09/2012	29.89		5192.54	NM	NM	NM	NM	NM
RW 6-1	01/04/2012	25.50	5218.23	5192.73	17.32	0.60	6.4	1.423	26.5
	07/09/2012	25.53		5192.70	NM	NM	NM	NM	NM
RW 7-1	01/04/2012	20.50	5214.10	5193.60	16.07	0.40	6.8	1.372	337.2
	07/09/2012	20.55		5193.55	NM	NM	NM	NM	NM
MH-1	07/09/2012	17.94	5256.92	5238.98	NR	0.21	7.36	NM	NM
MH-2	07/09/2012	19.59	5256.39	5236.80	NR	0.32	7.17	NM	NM
MH-3	07/09/2012	20.46	5258.44	5237.98	NR	0.22	7.29	NM	NM
MH-4	07/09/2012	8.87	5238.22	5229.35	NR	0.26	7.48	NM	NM
MH-5	07/09/2012	36.56	5228.44	5191.88	NR	0.15	7.76	NM	NM
MH-6	07/09/2012	32.26	5224.20	5191.94	NR	2.42	7.03	NM	NM
MH-7	07/09/2012	18.50	5229.64	5211.14	NR	0.40	7.26	NM	NM
MH-8	07/09/2012	8.30	5232.34	5224.04	NR	0.24	7.74	NM	NM
MH-9	07/09/2012	7.88	5235.09	5227.21	NR	0.38	7.79	NM	NM
MH-10	07/09/2012	25.60	5253.39	5227.79	NR	0.25	7.54	NM	NM
MH-11	07/09/2012	27.34	5253.99	5226.65	NR	0.52	7.45	NM	NM
MH-12	07/09/2012	17.14	5208.70	5191.56	NR	1.17	6.88	NM	NM

Notes:

Groundwater level measurements were taken using an oil/water interface probe. The groundwater elevations were calculated from survey elevation data provided by the Lund Partnership and Rocksol. Field parameter data was collected using a downhole YSI model 556 water quality meter.

Ft-bgs: Feet below ground surface
(°C) – Temperature in degrees centigrade
Mg/L – milligrams per liter
s.u. – standard units of pH
mg/cm³ - milligrams per cubic centimeter
ORP – oxidation reduction potential

NM – Not Measured
NR – Not Recorded

TABLE 4

Groundwater Analytical Results – BTEX and Total Organic Compound Results
U.S. 6 Bridges at I-25 and Federal Boulevard, Task Order 4
Denver, Colorado

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	ORO (mg/L)	Oil and Grease (mg/L)
CDPHE-WQCD MCLs		0.005	1.0	0.680	10	NS	NS	NS	Visual
MH-1	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	0.72	0.90	0.682 J
MH-2	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	3.4	4.3	2.20
MH-3	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	18	26	0.667 J
MH-4	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	4.0	5.6	0.889 J
MH-5	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	0.14	0.21	< 2.0
MH-6	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	0.75	0.98	< 2.0
MH-7	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	1.6	2.2	1.30 J
MH-8	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	0.049	< 0.094	1.60 J
MH-9	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	0.68	0.96	< 2.0
MH-10	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	5.9	8.4	< 2.0
MH-11	07/09/2012	0.2	0.011	0.0083	0.084	1.09	4.2	6.2	NA
MH-12	07/09/2012	< 0.005	< 0.005	< 0.005	< 0.015	< 0.05	4.7	6.9	< 2.0

mg/L – Milligrams per Liter

NS – No Standard

NA – Not Analyzed

BTEX – benzene, toluene, ethylbenzene, and xylenes (SW8260)

GRO – gasoline range organics (SW8015)

DRO – diesel range organics (SW8015M)

ORO – oil range organics (SW8015M)

CDPHE-WQCD – Colorado Department of Public Health and Environment Water Quality Control Division

MCL – maximum contaminant level (Drinking Water Standards)

< - Analyte was not detected above the laboratory method detection limit or reporting limit

J – Analyte was detected above the method detection limit, but was less than the laboratory reporting limit (estimated value)

Note: The benzene value reported in the MH-11 sample is shown in **bold** because it exceeds the MCL of 0.005 mg/L. Concentrations of toluene, ethylbenzene, and total xylenes were also detected in the sample but were not above the MCL.

Table 5
Groundwater Analytical Results – RCRA Metal Results
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
5 CCR 1002-41 Regulation 41		0.01	2.0	0.005	0.1	0.05	0.002	0.05	0.05
5 CCR 1002-38 Regulation 38		0.0002 (ch) 0.340 (ac)	2.0	0.005	0.050	0.05	0.01 (total)	0.05	0.05
CSEV 2011 Water Standard		0.01	2.0	0.005	0.1	0.05	0.0011	0.02	0.05
MH-1	07/10/12	0.0663	4.14	0.00428	0.311	0.275	0.000201	0.0171	0.00137 J
MH-2	07/10/12	0.00516	0.338	< 0.002	0.0225	0.0181	< 0.0002	0.0132	< 0.005
MH-3	07/10/12	0.0230	1.53	0.00149 J	0.140	0.150	0.000109 J	0.0453	< 0.005
MH-4	07/10/12	0.0298	1.56	0.00171 J	0.127	0.0988	0.0000730 J	0.0418	< 0.005
MH-5	07/10/12	0.0479	5.24	0.00966	0.524	0.459	0.000188 J	0.0919	0.00968
MH-6	07/10/12	0.0666	6.84	0.00539	0.420	0.387	0.000454	0.0870	0.0142
MH-7	07/10/12	0.00265	0.157	< 0.002	0.0124	0.00949	< 0.0002	0.0692	< 0.005
MH-8	07/10/12	0.00594	0.304	< 0.002	0.0271	0.0240	< 0.0002	0.0423	< 0.005
MH-9	07/10/12	0.00167 J	0.0604	0.00324 J	0.00324 J	0.00286 J	< 0.0002	0.00859	< 0.005
MH-10	07/10/12	0.0591	2.97	0.00382	0.200	0.229	0.000179 J	0.0444	0.00145 J
MH-11	07/10/12	0.0199	0.930	0.000944 J	0.0861	0.0667	0.0000560 J	0.0170	< 0.005
MH-12	07/10/12	0.127	7.12	0.00251	0.317	0.489	0.000323	0.0729	0.0107

Notes:

Colorado Department of Public Health and Environment (CDPHE) 5 CCR 1002-41 (Regulation 41) Water Quality Control Commission – The Basic Standards for Groundwater Amended, October 2009

CDPHE 5 CCR 1002-38 (Regulation 38) Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Amended June 13, 2011. The values are for the Upper South Platte River Basin, Stream Segment 14 – Main stem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado. Arsenic (acute) = 0.340 mg/L (dissolved), Arsenic chronic = 0.0002 mg/L (total recoverable)*

CSEV – Colorado Soil Evaluation Values, Water Standard CDPHE - Water Standards (July 2011)

Values in **bold** exceed one or more of the Groundwater Standards. Therefore, if groundwater is encountered in excavations and results in dewatering, the groundwater may require treatment prior to discharge to surface waters to meet the standards. The depth to groundwater ranged from 7.88 feet below ground surface (bgs) in (MH-9 to 36.56 feet bgs in MH-5 as measured on 07/09/12.

mg/L – milligrams per liter (Total metal concentrations were reported. These samples are grab samples without prior well development or sample filtration.)

J – Estimated concentration reported above the method detection limit (MDL) but below the reporting limit (RL)

< - Analyte not detected above the method detection limit (MDL)

(ac) acute (1-day)

(ch) chronic (30-day)

Trec – total recoverable metal concentration

*The Colorado Department of Transportation (CDOT), the Regional Transportation District (RTD), and the City and County of Denver requested an emergency adoption of a revision to the water + fish arsenic standard for Segment 14 of the Upper South Platte River Basin in order to facilitate the issuance of Colorado Discharge Permit System (CDPS) permits to segment 14 with chronic arsenic effluent limitations that are achievable with current and reasonable treatment capabilities. The Commission found that the revision was necessary since achieving arsenic discharge permit limitation that result from the current arsenic standard appear to be technologically unachievable. CDOT, RTD, and the City and County of Denver have expended significant public funds for multiple projects attempting to comply with the limits. Therefore, the Commission adopted the emergency temporary modification for the chronic arsenic standard for Segment 14.

It is possible that the treatment used to achieve the arsenic limit would also result in lowering the concentrations of the other metals that exceed limits. Since the samples represent unfiltered grab samples from undeveloped monitoring wells, Olsson recommends that the wells be re-sampled and filtered for dissolved metal concentrations or that the wells be developed and re-sampled for total metal concentrations.

Table 6

Groundwater Analytical Results – pH, TSS, and E. Coli
U.S. 6 Bridges at I-25 and Bryant Street
Denver, Colorado

Sample ID	Date Sampled	pH (s.u.)	Total Suspended Solids (mg/L)	E. Coli (MPN/ml)
5 CCR 1002-41 Regulation 41		6.5 to 9.0	N/A	N/A
5 CCR 1002-38 Regulation 38		6.5 to 9.0	N/A	126/100 ml
5 CCR 1002-62 Regulation 62		6.0 to 9.0	45 mg/L (7-day) 30 mg/L (30-day)	N/A
CSEV 2011		N/A	N/A	N/A
MH-1	07/10/12	7.04 H	5,510	< 2
MH-2	07/10/12	6.86 H	9,590	< 2
MH-3	07/10/12	6.93 H	11,400	2
MH-4	07/10/12	7.18 H	1,530	NS
MH-5	07/10/12	6.94 H	29,100	< 2
MH-6	07/10/12	6.64 H	26,600	4
MH-7	07/10/12	6.96 H	3,740	< 2
MH-8	07/10/12	8.09 H	3,290	< 2
MH-9	07/10/12	7.36 H	5,830	< 2
MH-10	07/10/12	7.13 H	8,430	< 2
MH-11	07/10/12	6.99 H	12,600	< 2
MH-12	07/10/12	6.44 H	26,200	2

Notes:

5 CCR 1002-41 (Regulation 41) Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission - The Basic Standards for Groundwater,

Amended October 2009, and 5 CCR 1002-62 (Regulation 62) Regulations for Effluent Limitations Amended February 2008

CDPHE 5 CCR 1002-38 (Regulation 38) Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Amended June 13, 2011. The values are for the Upper South Platte River Basin, Stream Segment 14 – Main stem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.

CDPHE 5 CCR 1002-62 (Regulation 62) Regulations for Effluent Limitations Amended February 2008

CSEV – Colorado Soil Evaluation Values, CDPHE July 2011

mg/L– milligrams per liter

N/A – Not Applicable

E. Coli – Escherichia coli bacteria

MPN/ml – most probable number per milliliter

< - Analyte not detected above the method detection limit (MDL)

H – Analyte was run outside of holding time. Since pH is temperature dependent, pH has an immediate sample hold time and should be measured in the field. Olsson personnel measured pH in the field as shown in Table 4.

NS – Not Sampled (Sample bottle for MH-4 was broken)

FIGURES



- LEGEND:**
- ⊗ Temporary Monitoring Hole Location June – July 2012
 - Surface Elevation Contour
 - Buried Utilities**
 - E Electrical
 - T Communications
 - W Water
 - S Sewer
 - G Gas

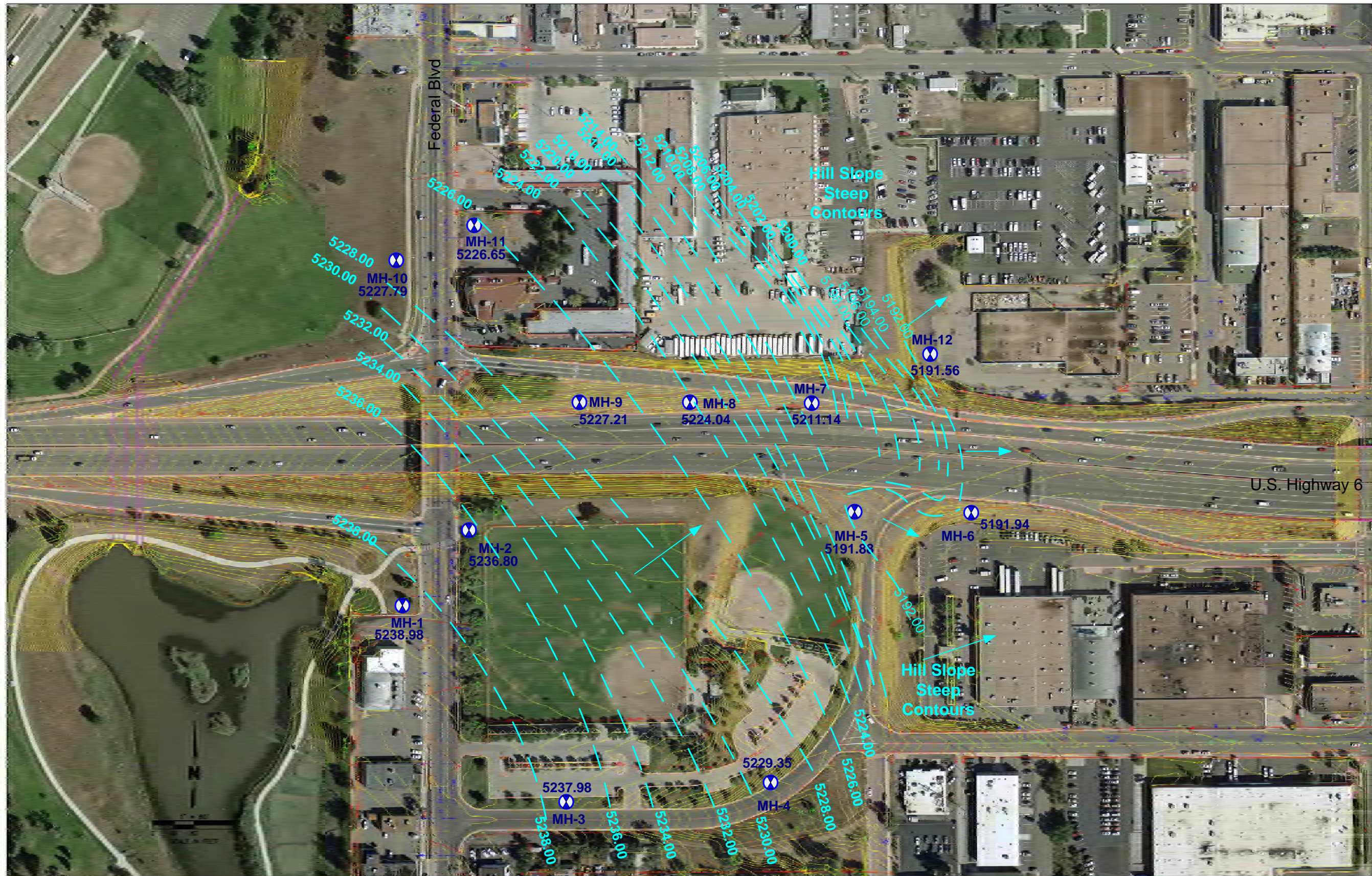


PROJECT NO: A11-2359
 DRAWN BY: JWH
 DATE: 04/30/2012

Temporary Monitoring Well Locations
 U.S. Highway 6 Bridges – Task Order 4

OLSSON ASSOCIATES
 4690 Table Mountain Drive #200
 Golden, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

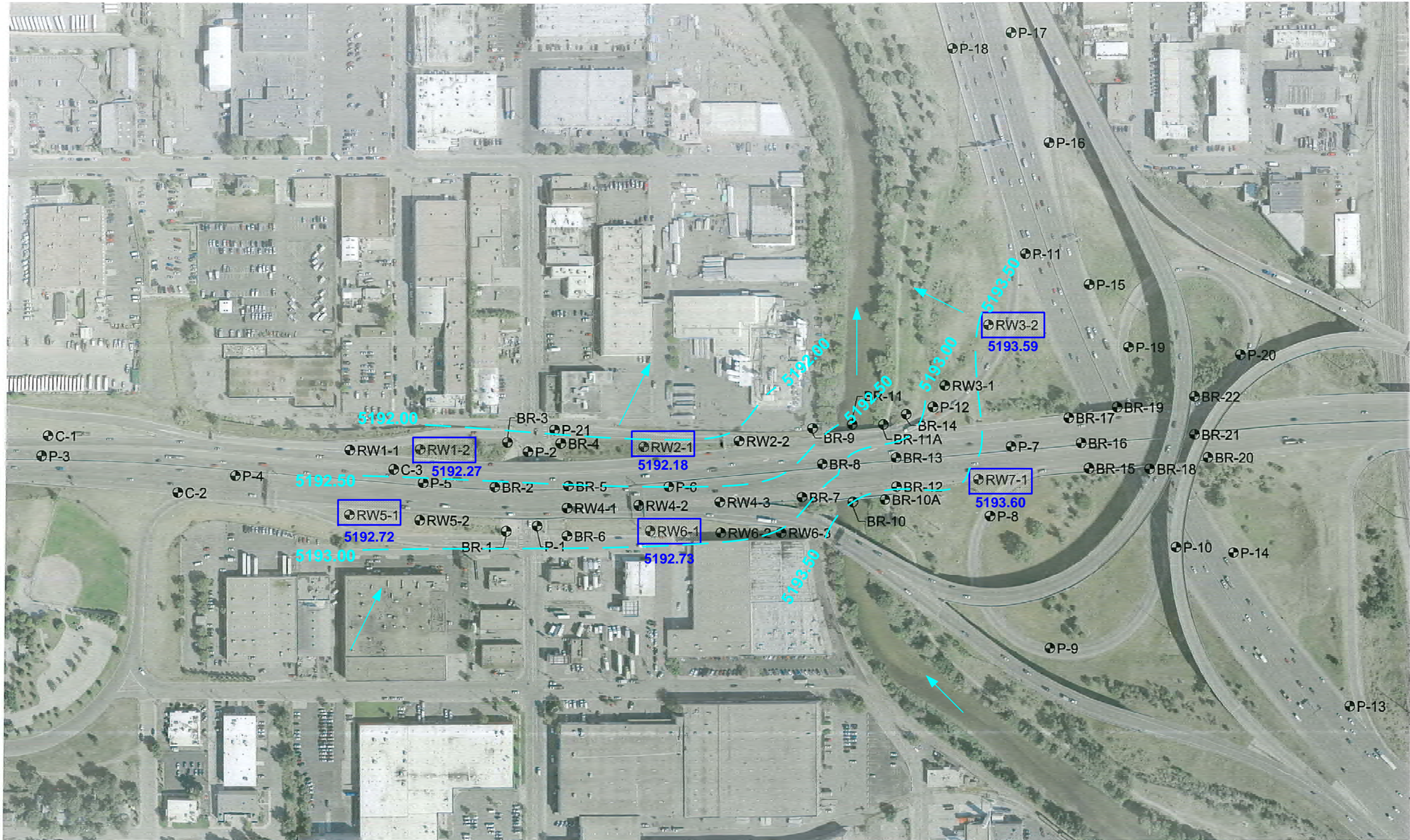
FIGURE
 1







PROJECT NO: A11-2359
 DRAWN BY: JWH
 DATE: 04/30/2012

U.S. Highway 6 and Federal Boulevard – Task Order 4
 Groundwater Elevation Contour Map
 July 2012

OLSSON ASSOCIATES
 4690 Table Mountain Drive #200
 Golden, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659



LEGEND:

-  Geotech Boring Location
-  **RW1-2**
Retaining Wall Geotech Boring Location Completed as a Temporary Monitoring Well
- 5192.72** Measured Groundwater Elevation
- 5193.50**
 Groundwater Elevation Contour (Contour Interval 0.5 feet)
-  Approximate Groundwater Flow Direction

TEMPORARY GROUNDWATER MONITORING WELL LOCATIONS – JULY 2012 GROUNDWATER LEVELS

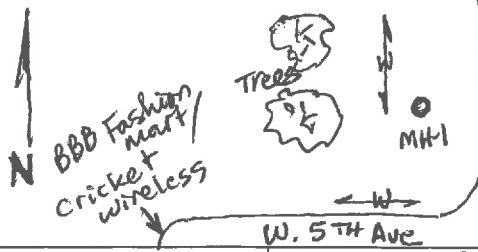
PROJECT NO:	A11-2359
DRAWN BY:	JWH
DATE:	08/06/12

**U.S. Highway 6 Bridges
Denver, Colorado**

OLSSON ASSOCIATES
4690 Table Mountain Drive #200
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ATTACHMENT A
SOIL BORING
LITHOLOGIC LOGS

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
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TEST HOLE/ WELL LOG

Page 1 of 2

Test/Well Number: MH-1 Project: Hartwig U.S. 6 Task 4
Date: 06/20/12 Project Number: OA 11-
Logged By: James Hix Drilled By: Site Services
Drilling Method: HSA/CME 75 Sampling Method: Splitspoon 2'

Elevation: Detector: NM580B Seal: Bentonite Crumbles/Chips Grout: Quikrete.
Gravel Pack: 10-20 Silica Sand (12.5 ft - 29.5 ft) 12.5' to 10.5' to ~1' Hole Dia.: 8.25" F. L. Meter:
Casing Type: Schedule 40 PVC Diameter: 2" Length: 145' DTP: ND DTW:
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 15' Well Depth: 29.5' Total Depth: 34'

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass/weeds.	cover
								1				
								2				
								3				
CL	10YR 5/4	Dry	35% 30% 30%	weak platy	1.0	NO	4 8 10 13	4.5 8 10 13	95 %		4.0 to 6.0 clay to silty clay w/ white mottled (10YR 5/4) mod. yellowish brown. Dry. weak platy OVM = 1.0 ppm @ 5ft No odor; No staining. Hard * Cuttings wet @ 6 ft Samples are dry & utility?	cover SAGRETE J-Plug CAP SAND Bent CHIP
CL	10YR 5/4	Dry	60% 30% 10%	MASS		NO	4 10 7 14	4.5 10 7 14	80 %		9.0 to 11.0 clay, moderate yellow brown white mottled (10YR 5/4) massive, Dry, OVM = 1.1 ppm @ 11' No odor; No staining. Hard Black plastic shard @ top of spoon	
CL	10YR 5/4	Moist	70% 50%	MASS	0.0	NO	3 2 5 6	3 2 5 6			14.0 to 16.0 ft clay, moderate yellow brown (10YR 5/4) moist, soft. massive OVM = 0.0 ppm @ 16' No odor & No staining.	
CL	10YR 5/4	Moist	60% 40%	MASS	1.1	(X)	3 5 6 7	3 5 6 7			19.0 to 21.0 ft clay, mod. yellow brown moist, 60% clay; 90% silt	Blank PVC 10-20 SILICA SAND

9:30 AM

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

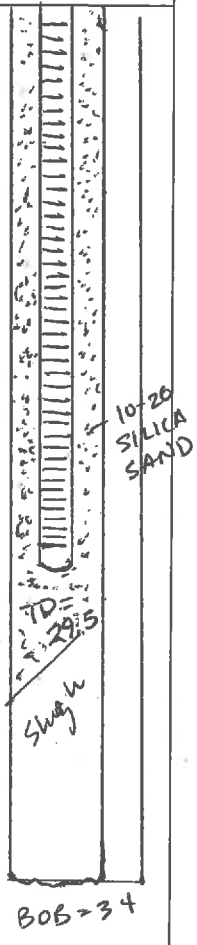
TEST HOLE/ WELL LOG

Page 2 of 2

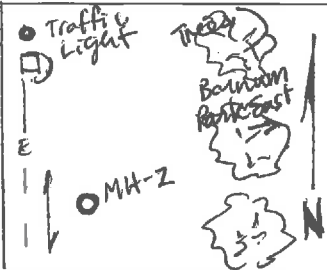
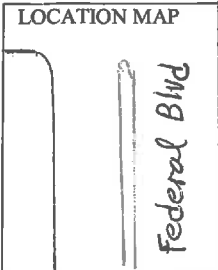
Test/Well Number: MH-1 Project: Hartung U.S.6 Task 4
Date: 06/20/12 Project Number: 011-
Logged By: James Hix Drilled By: Site Services, Inc.
Drilling Method: CME 75/HSA Sampling Method: Spit Spoon

Elevation: _____ Detector: DVM 580B Seal: Bentonite Gumbles/Chips Grout: Sakrete
Gravel Pack: 10-20 Silica Sand (29.5' to 12.5') (12.5' to 10.5') to 1' Hole Dia.: 8.25" F. L. Meter: _____
Casing Type: Schedule 40 PVC Diameter: 2" Length: 45' DTP: _____ DTW: _____
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 15' Well Depth: 29.5 Total Depth: 34

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								21				
								22				
<u>CL</u>	<u>10YR moist</u>			<u>mass</u>	<u>1.0</u>	<u>NO</u>		23	<u>3</u>		<u>23.0 to 25.0 ft Clay-silty sandy clay w/ trace gravel, moist mod. yel-brn (10YR 5/4) massive, NO odor & NO staining. Plastic OVM = 1.0 ppm @ 23.5 ft.</u>	
<u>SM</u>	<u>5/4 v. moist</u>							24	<u>4</u>	<u>100%</u>		
<u>CL</u>								25	<u>5</u>			
								26				
								27				
								28				
<u>CL</u>	<u>10YR wet</u>			<u>platy Bedding Planes 1.1</u>				29	<u>4</u>	<u>100%</u>	<u>28.5 to 30.0 ft Clay/silty clay mod yel-brn (10YR 5/4) set of platy, pelitic bedding planes OVM = 1.1 ppm @ 29.5 ft plastic NO odor, NO staining</u>	
								30	<u>7</u>			
								31				
								32	<u>4</u>		<u>32.0 to 34.0 ft clay, mod. yellow brown. Dry. Hard, slightly plastic, OVM = 1.0 @ 34 ft</u>	
<u>CL</u>	<u>Dry</u>			<u>mass</u>	<u>1.0</u>			33	<u>6</u>	<u>90%</u>		
								34	<u>9</u>		<u>No odor; NO staining</u>	
								35				



B.O.B = 34 ft / TD = 29.5 ft



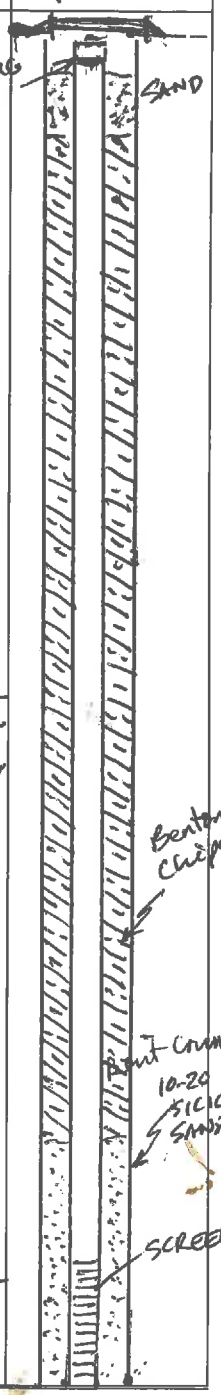
4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: *MH-2* Project: *Hactwig U.S. 6 Task 4*
 Date: *06/20/12* Project Number: *DA11-2359*
 Logged By: *James Hix* Drilled By: *Site Services, Inc.*
 Drilling Method: *CME 75/HSA* Sampling Method: *Splitspoon*

Elevation: _____ Detector: *OVM 5808* Seal: *Bentonite Crumbles #8* Grout: *Sakrete*
 Gravel Pack: *10-20 Silica Sand* Hole Dia.: *0.25"* F. L. Meter: _____
 Casing Type: *Schedule 40 PVC* Diameter: *2"* Length: *± 20'* DTP: _____ DTW: *23 ft*
 Screen Type: *Sch 40 PVC Slot: 0.010* Diameter: *2"* Length: *10 ft* Well Depth: *29'* Total Depth: *30 ft*

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass/bare ground	FLUSH COVER
								1				
								2				
								3				
<i>CL</i>								4	<i>5</i>		<i>4.0 to 6.0 ft Clay/silty clay (CL) mod. yellowish brown (10YR 5/4) to dark yel brn (4/2) Dry, massive. white mottles roots. No odor; No staining</i>	
<i>10YR 5/4</i>	<i>4/2</i>	<i>Dry</i>	<i>70% 30%</i>	<i>MASS</i>		<i>NO</i>		5	<i>6</i>	<i>80%</i>	<i>OVM = 1.0 ppm @ 5' to 6'</i>	
								6	<i>8</i>		<i>Hard</i>	
								7	<i>10</i>			
								8				
<i>CL</i>								9	<i>3</i>		<i>9.0 to 11.0 ft Clay/silty clay (CL) Dark yel brn (10YR 4/2) Dry</i>	
<i>10YR 4/2</i>	<i>4/2</i>	<i>Dry</i>	<i>65% 35%</i>	<i>MASS</i>		<i>NO</i>		10	<i>7</i>		<i>65% clay, 35% silt white mottles beer bottle glass @ top. Massive to weak platy. No odor, No staining OVM = 1.1 ppm @ 10'</i>	
								11	<i>7</i>		<i>Hard</i>	
								12	<i>9</i>			
								13				
<i>SC</i>								14	<i>3</i>		<i>14.0 to 16.0 ft clayey sand to silty sands (SM) mod.</i>	
<i>SM</i>	<i>4/2 to 5/4</i>	<i>Dry</i>	<i>60% 40% 30% 30%</i>	<i>MASS</i>	<i>1.0</i>	<i>NO</i>		15	<i>4</i>		<i>Yel brn, massive. No odor, dark gray @ 15' < 1" thick. OVM = 1.1 ppm @ 15'</i>	
								16	<i>7</i>		<i>Silty sand trace gravel hard</i>	
								17	<i>8</i>			
								18				
								19				
<i>CL</i>								20	<i>2</i>		<i>19.0 to 21.0 clay/silty clay (CL/SM) mod. yel brn. Very moist plastic, 55% clay 45% silt</i>	
<i>SM</i>	<i>5/4</i>	<i>Moist</i>	<i>55% 45%</i>	<i>MASS</i>	<i>0.0</i>	<i>NO</i>		21	<i>3</i>		<i>Massive, No odor, No staining</i>	
								22	<i>3</i>		<i>OVM = 0.0 ppm @ 21 ft plastic</i>	
								23	<i>5</i>			

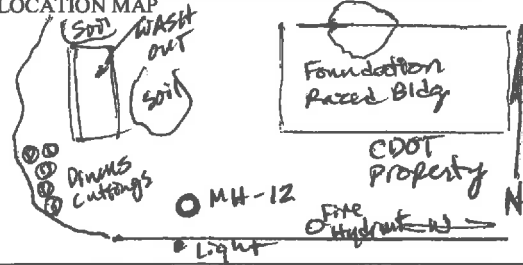


LOCATION MAP		MOLSSON ASSOCIATES		4690 Table Mountain Drive #200 Golden, CO 80403 T. 303.237.2072 F. 303.237.2659	
TEST HOLE/ WELL LOG				Page 2 of 2	
Test/Well Number: <u>MH-2</u>		Project: <u>Hartwig U.S. 6 Task 4</u>			
Date: <u>06/20/12</u>		Project Number: <u>411-2359</u>			
Logged By: <u>James Hix</u>		Drilled By: <u>Site Services, Inc.</u>			
Drilling Method: <u>CME 75</u>		Sampling Method: <u>Splitspoon 2'</u>			

Elevation:	Detector: <u>OVM580B</u>	Seal: <u>Bentonite Gumbles #8</u>	Grout: <u>Sakrete</u>
Gravel Pack: <u>10-20 Silica Sand</u>	Hole Dia.: _____		F. L. Meter: _____
Casing Type: <u>Schedule 40 PVC</u>	Diameter: <u>2"</u>	Length: <u>± 20 ft</u>	DTP: _____
Screen Type: <u>Sch 40 PVC Slot: 0.010</u>	Diameter: <u>2"</u>	Length: <u>10 ft</u>	Well Depth: <u>29 ft</u> Total Depth: <u>30 ft</u>

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					
							22					
<u>SM</u>	<u>10YR 5/4</u>	<u>SAT</u>	<u>5001 405i 105</u>	<u>MASS</u>	<u>1.0</u>	<u>No</u>	23		<u>0</u>		<u>23.0 ft to 25 ft Clayey Silty Sand</u>	<p>10-20 SILICA SAND 0.010 SLOT SCREEN CAP TD = 29' BOB = 30'</p>
<u>CL</u>		<u>Moist</u>					24	<u>95%</u>	<u>2</u>		<u>Silty Clay (SM → CL) Saturated</u>	
							25		<u>3</u>		<u>Massive No odor; No staining</u>	
							26				<u>Moist bottom 1 ft OVM = 1.0 ppm @ 24 ft plastic</u>	
							27					
<u>CL</u>	<u>10YR 5/4</u>	<u>Moist</u>	<u>5001 455i 55</u>	<u>MASS</u>	<u>0.0</u>	<u>NO</u>	28		<u>↑ 0</u>		<u>28.0 to 30.0 ft Clay, yel-brn</u>	
							29		<u>0</u>		<u>Moist, slightly plastic, massive</u>	
							30		<u>3</u>		<u>No odor; No staining</u>	
							31		<u>5</u>		<u>OVM = 0.0 ppm @ 30 ft</u>	
							32				<u>30.B. = 30 ft TD = 29 ft</u>	
							33					
							34					
							35					

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 2

Test/Well Number: **MH-12** Project: **Hartweg U.S. 6 Task 4**
 Date: **06/20/12** Project Number: **0A11-2359**
 Logged By: **James Hix** Drilled By: **Site Services Inc**
 Drilling Method: **CME 75/HSA** Sampling Method: **Splitspoon**

Elevation: _____ Detector: **OVM580B** Seal: **Bentonite Cumbles** Grout: **Sakrete**
 Gravel Pack: **10-20 Silica Sand** Hole Dia.: _____ F. L. Meter: _____
 Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **14 ft** DTP: _____ DTW: _____
 Screen Type: **Sch 40 PVC Slot: 0.010** Diameter: **2"** Length: **10 ft** Well Depth: **24.5** Total Depth: **25**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Asphalt 3" thick	
								1			Cookie Cutter bit - Out through asphalt - Gravel/clay fill	
								2				
								3				
SM	10YR 2/2	Moist		MASS			4		3		4.0 to 6.0 ft clayey silty sand - clayey silt -> gravel/clayey sandy gravel; moist massive, No odor & No staining. OVM = 1.1 ppm @ 4 ft	
GC	10YR 5/4				1.1	NO	5		10%	6		
							6			7		
							7					
GM							8					
GC	5YR 8/4	Dry	30%	MASS		NO	9		3		9.0 to 11.0 feet silty gravel to silty sandy gravel, well graded (poorly sorted) dry, massive, blk. moderate orange pink (5YR 8/4) No odor; no staining OVM = 1.0 ppm @ 9 ft.	
					1.0		10		90%	10		
							11			21		
							12					
							13					
GM	5YR 4/4	Dry				NO	14		8		14.0 to 16.0 ft silty sandy gravel (GM) mod. brown (5YR 4/4) / light brown (5YR 5/6) -> mod orange pink (5YR 8/4) Dry to slightly moist sandy gravel < 25% silt/clay. Massive No odor; No staining OVM = 1.1 ppm @ 16 ft.	
	5YR 8/4	slightly moist	25	MASS	1.1	NO	15		70%	14		
							16		15	16		
							17					
							18					
GM	5YR 6/4	SAT	25	MASS	1.0		19		8		wet/water @ 18 ft 19 ft to 20 ft silty sandy gravel light brown (5YR 6/4) saturated < 25% silt/clay massive OVM = 1.0 ppm	
GC							20		100%	15		
							21			14		

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

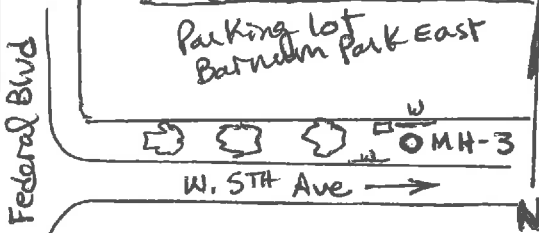
TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: MH-12 Project: Hartwig U.S. 6 Task 4
Date: 06/20/12 Project Number: AH-2359
Logged By: James Hix Drilled By: Site Services
Drilling Method: Split HSA Sampling Method: Split Spoon

Elevation: Detector: OVM 580B Seal: Bentonite Crumbles #8 Grout: Sakrete
Gravel Pack: 10-20 Silica Sand Chips Hole Dia.: 8.25 F. L. Meter:
Casing Type: Schedule 40 PVC Diameter: 2" Length: 14 ft DTP: DTW:
Screen Type: 2h 40 PVC Slot: 0.010 Diameter: 2" Length: 10 ft Well Depth: 24.5 Total Depth: 24.5

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					<p>SCREEN SAND BOTTOM CAP</p>
							22				<p>Arkosic sand/gravel - sat. flowing sands/gravel strong, over drilled to 25</p> <p>B.O.B = 25 ft / TD = 24.5 ft</p>	
							23					
							24					
							25					
							26					
							27					
							28					
							29					
							30					
							31					
							32					
							33					
							34					
							35					



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/WELL LOG Page 1 of 2

Test/Well Number: **MH-3** Project: **Hartwig U.S.-6 Task 4**
 Date: **06/21/12** Project Number: **911-2359**
 Logged By: **JWH** Drilled By: **Site Services**
 Drilling Method: **CME75/HSA** Sampling Method: **splitspoon**

Elevation: _____ Detector: **OVM 580 B** Seal: **Bentonite Crumbles 16-14 ft** Grout: **Sakrete**
 Gravel Pack: **10-20 Silica Sand (28' to 18') / Bentonite chips 14-1 ft** Hole Dia.: **8.25"** F. L. Meter: _____
 Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **18'** DTP: **NO** DTW: **~23'**
 Screen Type: **Sch 40 PVC Slot: 0.010** Diameter: **2"** Length: **10'** Well Depth: **28 ft** Total Depth: **29.5'**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass	
								1				
								2				
								3				
CL	10YR 5/4	Dry	65% 30Si 3S	MASS	0.0	NO	4	4	95%	6	4.0 to 6.0 ft Clay (CL) / silty clay mod. yellowish brown (10YR 5/4) 65% clay, 30% silt, 5% sand v. fine. massive. No odor. No staining white mottles. Hard OVM = 0.0 ppm @ 5 ft bgs	
								5		8		
								6		10		
								7				
								8				
CL	10YR 5/4	Moist	60% 35Si 10S	MASS	0.0	NO	9	2	90%	4	9.0 to 11.0 ft Clay/silty clay mod. yellowish brown (10YR 5/4) moist. slightly plastic - hard OVM = 0.0 ppm @ 10 ft. Sand lens @ 10.5 ft.	
								10		3		
SM			50Cl 40Si 10S					11		3		
								12				
								13				
CL	10YR 5/4	very moist	60Cl 30Si 10S	MASS	0.0	NO	14	3	90%	7	14.0 to 16.0 ft Clay-silty Clay (CL) moderate yel-brn (10YR 5/4) very moist, 60% clay 30% silt, massive. No apparent odor; No staining. OVM = 0.0 ppm @ 15 ft	
								15		7		
								16		7		
								17				
								18				
CL	10YR 5/4	very moist Wet	60Cl 30Si 30S	MASS	0.0	NO	19	0	92%	0	19.0 to 21.0 Clay, silty sandy Clay (CL) mod. yel brn. very moist to wet. No odor, No staining OVM = 0.0 ppm @ 21 ft	
								20	95%	2		
								21		3		

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
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TEST HOLE/ WELL LOG

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Test/Well Number: **MH-3** Project: **Hartwig Assoc. Task 4**
Date: **06/21/12** Project Number: **ALL-2359**
Logged By: **James Hix** Drilled By: **Site Services**
Drilling Method: **CME 75/HSA** Sampling Method: **Splitspoon**

Elevation: _____ Detector: _____ Seal: **Bentonite Crumbles/Clips** Grout: **Sakrete**
Gravel Pack: **10-20 Silica Sand (28 ft - 16 ft)** Hole Dia.: **8.25** F. L. Meter: _____
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **18 ft** DTP: **N/D** DTW: **23 ft**
Screen Type: **Sch 40 PVC Slot: 0.010** Diameter: **2"** Length: **10 ft** Well Depth: **28 ft** Total Depth: **29.5'**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								21				
								22				
GC	10YR 5/4	SAT	60% 20% 10% 10%	MASS	0.0	No		23	95%	0	23.0 to 25.0 ft Gravel-sand lens at 23.0 ft ~3" thick, saturated 60% clay, massive. No odor; No staining, Plastic	
CL	10YR 5/4				0.0	No		24	95%	3	DVM 0.6 ppm @ 25 ft	
								25		4	Ball Clay	
								26				
								27				
								28		2	28.0 to 29.5 ft clay, mod. yellow w/ light brown (5R 5/6) mottles	
CL	10YR 5/4 (5YR 5/6)	Moist DRY	70% 30%	MASS	0.0	No		29	100%	3	70% clay; 30% silt, massive, moist → Dry plastic Ball clay	
								30			DVM 0.0 ppm @ 29.5 ft	
											TD = 28 ft	

BOB = 29.5
TD = 28

LOCATION MAP



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TEST HOLE/ WELL LOG

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Test/Well Number: **MH-4** Project: **Hartwig U.S.G Task 4**
Date: **06/21/12** Project Number: **All-2359**
Logged By: **James Hix** Drilled By: **Site Services**
Drilling Method: **CME75/HSA** Sampling Method: **Splitspoon 2'**

Elevation: _____ Detector: **OVM580B** Seal: **Bentonite Crumbles/chips** Grout: **Sakrete**
Gravel Pack: **10-20 Silica Sand (20 ft-8 ft bags)** Hole Dia.: **8.25** F. L. Meter: _____
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **10** DTP: **ND** DTW: **12 ft**
Screen Type: **Sch 40 PVC Slot: 0.010** Diameter: **2"** Length: **10** Well Depth: **20** Total Depth: **20**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass	
								1				
								2				
								3				
								4	2		4.0 to 6.0 feet Clay Silty clay moderate yellowish brown (10 YR 5/4) moist 60% clay 30% silt 10% sand v. fine. No odor; No staining silt @ 6 ft (2" thick) massive. OVM = 0.0 ppm @ 6 ft	
CL	10YR 5/4	Moist	60% 30% 10%	MASS	0.0	NO		5	100%	3		
SM								6		4		
								7				
								8				
								9	2		9.0 to 11.0 ft: Clay (ball clay) Clay sand silt mixtures. Mod. yel brn (10 YR 5/4), v. moist, 60% clay 30% silt 10% sand, massive, No apparent odor; No staining. OVM = 0.0 ppm @ 11 ft	
CL	10YR 5/4	v. moist	60% 30% 10%	MASS	0.0	NO		10	95%	3		
								11		3		
								12				
								13				
								14			14.0 to 16.0 ft Clay/Silty Clay (CL), mod. yel-brn (10 YR 5/4), wet Saturated, massive No odor; No staining OVM = 0.0 ppm @ 16 ft	
CL	10YR 5/4	Wet Sat		MASS		NO		15	100%	2		
					0.0			16		5		
								17				
								18				
								19			19.0 to 20.0 ft Clayey Sand (SC) Δ to Clay, Saturated → dry massive No odor; No staining OVM = 0.0 ppm @ 20 ft	
SC	10YR 5/4	SAT Moist	50% 20% 30%	MASS	0.0	NO		20		3		
CL		Dry						21		5		

LOCATION MAP



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TEST HOLE/ WELL LOG

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Test/Well Number: **MH-5** Project: **Hortwig U.S. 6 Task 4**
Date: **06/21/12** Project Number: **All-2359**
Logged By: **James Hix** Drilled By: **Site Services**
Drilling Method: **CME 75/H&A** Sampling Method: **split spoon**

Elevation: _____ Detector: **DVMS808** Seal: **Bentonite** Grout: **Sakrete**
Gravel Pack: **10-20 Silica Sand 40' to** Hole Dia.: **8.25"** F. L. Meter: _____
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **25** DTP: **ND** DTW: **38-39**
Screen Type: **Shed 40 PVC Slot: 0.010** Diameter: **2"** Length: **15** Well Depth: **40** Total Depth: **40**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Bare soil, native grasses broken glass, metal fragments, trash.	
								1				
								2				
								3				
SM	10YR 6/2	Dry	50% 45% 55	MASS	0.0	NO		4	10		4.0 to 6.0 ft clayey silt, pale yellowish brown (10YR 6/2) Dry Hard, 50% silt 45% clay, massive No odor; No staining. OVM = 0.0 ppm @ 6.0 ft. limonitic mottles	
								5	100%	16		
								6	24	30		
								7				
								8				
CL RZ	10YR 5/4	Dry	60% 35% 55	MASS	0.0	NO		9	4		9.0 to 11.0 ft Clay - claystone frag moderate yellowish brown (10YR 5/4) Dry, 60% clay 35% silt; massive. Hard, NO odor; NO staining limonitic mottles (5YR 5/6) Root structures OVM = 0.0 ppm @ 11' Very pale orange broken surfaces (10YR 8/2)	
								10	100%	9		
								11	14	17		
								12				
								13				
								14				
CL	10YR 4/2	Dry	65% 35%	MASS	0.0	NO		15	5		14.0 to 16.0 ft - Clay/claystone frag Dark yel brn (10YR 4/2) / mod. yel brn (10YR 5/4) - 65% clay, 35% silt massive, dry to slightly moist. light brown mottles (5YR 3/6) root structures. Paleosol. No odor; No staining. OVM = 0.0 ppm @ 16'	
								16	95%	7		
								17	10	13		
								18				
CL SM	10YR 5/6	Moist	60% 35%	MASS	0.0	NO		19	3		19.0 to 21.0 ft. Clay, pale yel-brn w/ iron mottles increasing abund moist No odor; No staining. Micaceous OVM = 0.0 ppm @ 21'	
								20	95%	5		
								21	6	8		

LOCATION MAP



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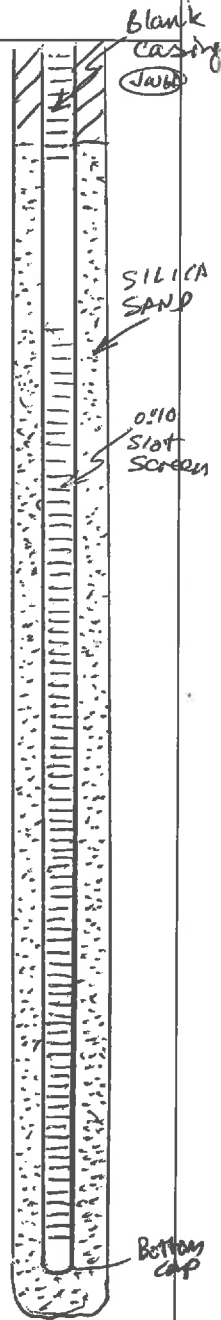
TEST HOLE/ WELL LOG

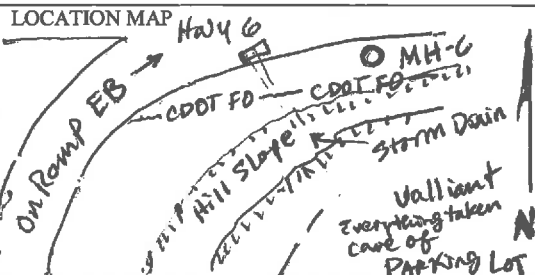
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Test/Well Number: *MH-5* Project: *Hartung U.G. 6 Task 4*
Date: *06/21/12* Project Number: *J All-2359*
Logged By: *James Hix* Drilled By: *Site Services*
Drilling Method: *CME 25/HSA* Sampling Method: *Splitspoon*

Elevation: _____ Detector: *OVM580B* Seal: *Bentonite* Grout: *Sakrete*
Gravel Pack: *10-20 Silica Sand* Hole Dia.: *8.25"* F. L. Meter: _____
Casing Type: *Schedule 40 PVC* Diameter: *2"* Length: _____ DTP: _____ DTW: _____
Screen Type: *Sch 40 PVC Slot: 0.0105"* Diameter: *2"* Length: _____ Well Depth: _____ Total Depth: _____

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								21				
								22				
<i>CL</i>	<i>10YR 5/4</i>	<i>Moist</i>		<i>MASS</i>	<i>0.0</i>			<i>23.0 to 24.5</i>			<i>Clay/silty claystone? mod. yellow brown w/ iron mottles light tan (5YR 5/6) moist, massive No odor; No staining. OVM = 0.0 ppm micaceous</i>	
	<i>5YR 5/6</i>					<i>NO</i>			<i>100%</i>	<i>3</i>		
								24		<i>5</i>		
								25		<i>7</i>		
								26				
								27				
								28	<i>14:30</i>	<i>13</i>		
<i>GM</i>	<i>10YR 8/2</i>	<i>Moist</i>		<i>MASS</i>	<i>0.0</i>	<i>No</i>		<i>28.0 to 30.0 ft</i>	<i>60%</i>	<i>17</i>	<i>silty sandy gravel poorly sorted, (well graded) very pale orange (10YR 8/2) to pale yellowish orange (10YR 8/6) moist to dry, massive Arkosic OVM = 0.0 ppm @ 30 ft</i>	
		<i>Dry</i>						29		<i>16</i>		
								30		<i>20</i>		
								31				
								32		<i>8</i>		
<i>GM</i>	<i>5YR 8/4</i>	<i>Moist</i>		<i>MASS</i>	<i>0.0</i>	<i>No</i>		<i>32 to 34.0 ft</i>	<i>60%</i>	<i>21</i>	<i>silty sandy gravel poorly sorted angular to rounded moderate orange pink (5YR 8/4) Arkosic, moist to dry. Iron staining (light tan 5YR 5/6) upper part of interval (1.5") sand-gravel stratified, OVM = 0.0 ppm @ 34'</i>	
		<i>Dry</i>						33		<i>18</i>		
								34		<i>22</i>		
								35				
								36				
								37				
<i>GM</i>	<i>5YR 6/4</i>	<i>Wet</i>		<i>MASS</i>	<i>0.0</i>	<i>NO</i>		<i>38.0 to 40.0 ft</i>		<i>4</i>	<i>sand & gravel poorly sorted, coarsening downward Arkosic, wet/saturated No odor, NO staining. OVM = 0.0 ppm @ 40.0 ft</i>	
		<i>SAT</i>						38		<i>5</i>		
								39		<i>6</i>		
								40		<i>6</i>		





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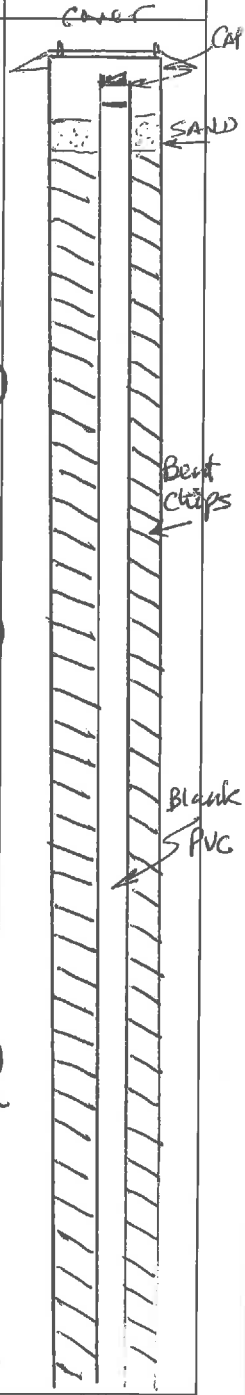
TEST HOLE/ WELL LOG

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Test/Well Number: MH-6	Project: Hartwig U.S. 6 Task 4
Date: 06/22/12	Project Number: 11-2359
Logged By: James Hix	Drilled By: Site Services
Drilling Method: CME 75/HSA	Sampling Method: Splitspoon
Elevation:	Detector: OVM580B
Gravel Pack: 10-20 Silica Sand (39 ft to 22 ft)	Seal: Bentonite
Casing Type: Schedule 40 PVC	Grout: Sakrete
Screen Type: Sch 40 PVC Slot: 0.010	Hole Dia: 8.25"
	F. L. Meter:
	DTP: ND
	DTW: 33 ft
	Well Depth: 39 ft
	Total Depth: 40 ft

08:30

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass, rock, glass, metal weeds debris, trash - bare soil	
								1				
								2				
								3				
3M								4		3	4.0 to 6.0 ft: clay/silty clay (CL)	
CL	10YR 4/2	Dry	60% 40si	MASS		No		5	60%	4	silty layer at top, dry 60% clay, massive, Dark yellow brn (10YR 4/2)	
					0.0			6		6	No odor. No staining	
								7		9	OVM = 0.0 ppm @ 6 ft	
								8				
CL	10YR 5/4	Dry	60% 40si	MASS		No		9		3	9.0 to 11.0 ft clay/silty clay (CL)	
					0.0			10	90%	4	mod yel brn (10YR 5/4) w/ white and light brown mottles (5YR 5/6)	
								11		7	MASSIVE, hard, dry.	
								12			No odor. No staining	
								13			OVM = 0.0 ppm @ 11 ft	
GC	10YR 5/4	Dry		MASS		No		14		3	14.0 to 16.0 ft	
CL								15	60%	4	Sandy gravelly clay, upper 3" clay ~ 8" hard	
SM					0.0			16		5	clayey silt (4") mod yellow brown (10YR 5/4)	
								17		6	Dry, massive, limonitic mottled	
								18			No odor. No staining	
								19			OVM = 0.0 ppm @ 16 ft	
CL	10YR 5/4	Dry	60% 40si	MASS				20	95%	0	19.0 to 21.0 upper 1.5 ft is clay (CL) lower 6" silty sand (SM)	
SM	10YR 6/6	sl. moist			0.0			21		4	limonitic mottled No odor	
										9	OVM = 0.0 ppm @ 21'	
											Slightly moist, plastic	



Elevation: Detector: **QUM 5908** Seal: Grout: **Sukrete**

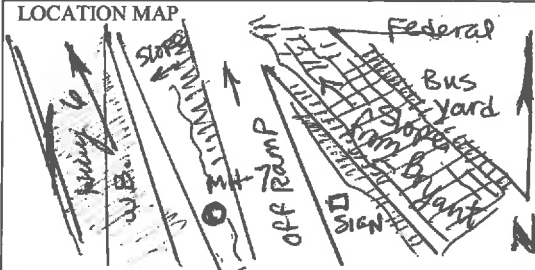
Gravel Pack: Hole Dia.: F. L. Meter:

Casing Type: Diameter: Length: DTP: DTW:

Screen Type: Slot: Diameter: Length: Well Depth: Total Depth:

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					
							22					
GM	5YR 6/4	Dry		MASS			23		12		23.0 to 25.0 ft silty sandy gravel light brown (5YR 6/4) to mod. orange pink (5YR 8/4), Arkosic, Poorly Sorted Dry, massive. No odor. No staining. OVM = 0.0 ppm @ 25 ft	
	5YR 8/4			0.0		24		90	12			
						25		15	22			
						26						
							27					
							28		10		28.0 to 30.0 ft silty sandy gravel light brown to mod. orange pink, Arkosic, poorly sorted, massive, No odor. No staining. OVM = 0.00 ppm @ 30 ft	
GM	5YR 6/4	Dry		MASS 0.0		29		90	14			
	5YR 8/4					30		16	24			
							31					
							32					
							33					
SM	5YR 5/6	SAT		MASS			34		6		34.0 to 35.5 ft silty sand well sorted 2" thick @ top (SM)	
GM						35		85	13			
						36		14			Silty sandy gravel (GM) rest of interval, light brown (5YR 5/6) Arkosic, saturated, massive. No odor. No staining. OVM = 0.0 ppm @ 35 ft	
							37					
							38				Flowing Sands/Gravel	
							39				Not Sampled	
							40				TD = 39 ft	
							41					
							42					

LOCATION MAP



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TEST HOLE/WELL LOG

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Test/Well Number: MH-7 Project: Hartwig U.S. 6 Task 4
Date: 06/22/12 Project Number: 011-2359
Logged By: James Hix Drilled By: Site Services
Drilling Method: CME75/HSA Sampling Method: Splitspoon

Elevation: Detector: OVM580B Seal: Bentonite Crumbles/chips Grout: Sakrete
Gravel Pack: 10-20 Silica Sand (29'-17') (17'-15') (15'-1') Hole Dia.: 8.25 F. L. Meter:
Casing Type: Schedule 40 PVC Diameter: 2" Length: DTP: ND DTW: 27
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 10 ft Well Depth: 29' Total Depth: 29 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass; bare soil, glass sand debris	
CL	10YR 6/2	Dry	60% 40s	MASS	0.0	No		4	5	8	4.0 to 6.0 ft Clay, Silty Clay (CL) Pale yellowish brown, Hard (10YR 6/2), Dry, 60% Clay 40% silt, massive, No odor; No Staining, OVM = 0.0 ppm @ 6'	
CL	10YR 5/4	Dry	55% 45s	MASS	0.0	No		9	4	7	9.0 to 11.0 ft Clay/Silty Clay (CL) Mod. yel brn (10YR 5/4) Dry massive, No odor; No Staining, hard, limonitic mottling (5YR 5/6) OVM = 0.0 ppm @ 11'	
CL	10YR 5/4	Dry	60% 5s	MASS	0.0	No		14	5	5	14.0 to 16.0 ft Clay/Silty Sandy Clay, Dry, mod. yel brn (10YR 5/4) 60% Clay 30% silt, massive, Poor recovery -- Cobble @ bottom sheared. No odor; No staining OVM = 0.0 ppm @ 16'	
CL	moist		60% 40s	MASS	0.0	No		19	3	4	19.0 to 21.0 ft Clay (CL) mod. yellow brown (10YR 5/4) moist, massive, No odor; No staining	
SC	wet		50% 30s	MASS	0.0	No		20	90%	5	wet Sandy Clay - Clayey Sand (SC) OVM = 0.0 ppm @ 21'	

OVM = 0.0 ppm @ 21'

LOCATION MAP



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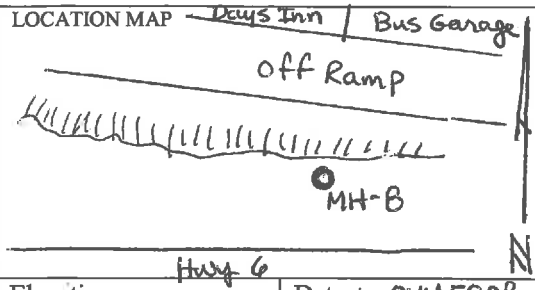
TEST HOLE/ WELL LOG

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Test/Well Number: **MH-7** Project: **Haltwig U.S.G Task 4**
Date: **06/22/12** Project Number: **AG-2359**
Logged By: **James Hix** Drilled By: **Site Services Inc**
Drilling Method: **CME75/HSA** Sampling Method: **Splitspoon**

Elevation: _____ Detector: **OVM5806** Seal: **Bentonite** Grout: **sakrete**
Gravel Pack: **10-20 Silica Sand** Hole Dia.: **8.25** F. L. Meter: _____
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: _____ DTP: **ND** DTW: **~22 ft**
Screen Type: **Sch 40 PVC Slot: 0.010** Diameter: **2"** Length: **10ft** Well Depth: **29ft** Total Depth: _____

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					
							22					
CL	10YR 5/4	SAT	70% 30%	MASS		No	23		3		23.0 to 25.0 ft clay/silty clay moderate yellow (10YR 5/4) limonite mottles (5YR 5/6) SATURATED → dry hard/slightly plastic, 70% clay 30% silt, massive. No odor. No staining. OVM = 1.0 ppm @ 25 ft	
	(5YR 5/6) mottles	DRY			1.0		24		80%	5		
							25		6	10		
							26					
							27					
CL	10YR 8/6	DRY	50% 20% 30%	MASS @ 0.0			28		17		28.0 to 29.0 ft Clay (CL) → sandy silty/clayey gravel poorly sorted, subangular orange/pinkish brown, dry 50% clay - 30% sand, massive. No odor. No staining. OVM = 0.0 ppm @ 29 ft	
SC	8/6						29		100%	50%		
GC	5YR 8/4						30					
							31					
							32					
							33					
							34					
							35					



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TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: MH-8 Project: Hartwig U.S. 6 Task 4
Date: 06/22/12 Project Number: A11-2359
Logged By: James Hix Drilled By: Site Services
Drilling Method: CME TS/ASA Sampling Method: Spitzspoon

Elevation: Detector: OVM580B Seal: Bentonite Grout: Sakrete
Gravel Pack: 10-20 Silica Sand Hole Dia.: 2.25" F. L. Meter:
Casing Type: Schedule 40 PVC Diameter: 2" Length: DTP: ND DTW: ~19.5'
Screen Type: Sch 40 PVC Slot: 0.010 Diameter: 2" Length: 10 Well Depth: 24' Total Depth:

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass, bare soil	<p>COVER CAP SAND BLANK PVC CASING Bent chips Bent crumbles 10-20 SILICA SAND 0.010 SLOT SCREEN</p>
CL	10YR 4/2	Dry sl. moist	60% 35% 55	MASS	0.0	NO		4	95%	2 4 5 7	4.0 to 6.0 feet Clay - silty Clay (CL), Dark yellow/brown (10YR 4/2) limonitic mottles (5YR 5/6) Dry to slightly moist, massive No odor; No staining OVM = 0.0 ppm @ 6 ft	
CL	10YR 5/4	Dry		MASS	0.0	NO		9	100%	2 4 4 6	9.0 to 11.0 ft Clay - silty clay upper 1.5 feet - bottom 0.5 ft silt/silty sand (SM), Dry, hard massive. No odor; No staining OVM = 0.0 ppm @ 11 ft	
CL SM	10YR 5/4	Dry sl. moist		MASS	0.0	NO		14	100%	3 4 7 8	14.0 to 16.0 ft Clay - silty clay (CL) mod yel-brn (10YR 5/4) hard Dry to slightly moist Plastic limonitic mottles (5YR 5/6) No odor; No staining OVM = 0.0 ppm @ 16 ft	
CL (SM)	10YR 5/4	Wet		MASS	0.0	NO		19	100%	1 3 4 7	19.0 to 20.0 ft Clay 2" silty sand (SM) @ 19.5' Clay mod, yel-brn No odor; No staining OVM = 0.0 ppm @ 21'	

LOCATION MAP



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

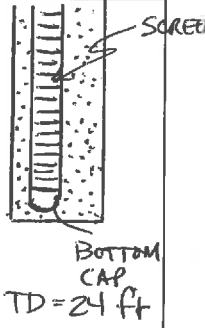
TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: MH-8 Project: Hanford U.S.G Task 4
Date: 06/22/12 Project Number: AD-2859
Logged By: James Hix Drilled By: Site Services
Drilling Method: CME 75/HSA Sampling Method: Splitspoon

Elevation: _____ Detector: ONM 580B Seal: Bentonite Grout: Saktete
Gravel Pack: 10-20 Silica Sand Hole Dia.: 8.25 F. L. Meter: _____
Casing Type: Schedule 40 PVC Diameter: 2" Length: _____ DTP: _____ DTW: _____
Screen Type: 2H 40 PVC Slot: 0.010 Diameter: 2" Length: _____ Well Depth: 24' Total Depth: _____

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
							21					
							22					
							23				23.0 to 25.0 ft silty clay (CL)	
						24		95%	3/4		Silty sand at 23.5 ft 4" thick (SM)	
						25			7		No odor; No staining, OVM = 0.0 ppm @ 24'	
						26						
						27						
						28						
						29						
						30						



CL

SM 10YR SAT 5/4 dry

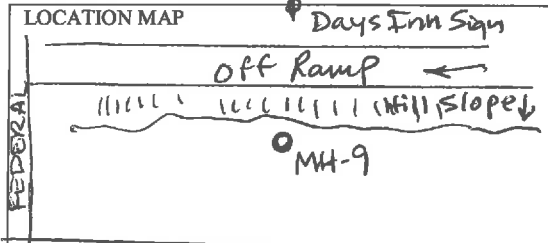
MASS

0.0

No

23.0 to 25.0 ft silty clay (CL)
Silty sand at 23.5 ft 4" thick (SM)
No odor; No staining, OVM = 0.0 ppm @ 24'

BOTTOM CAP TD=24 ft




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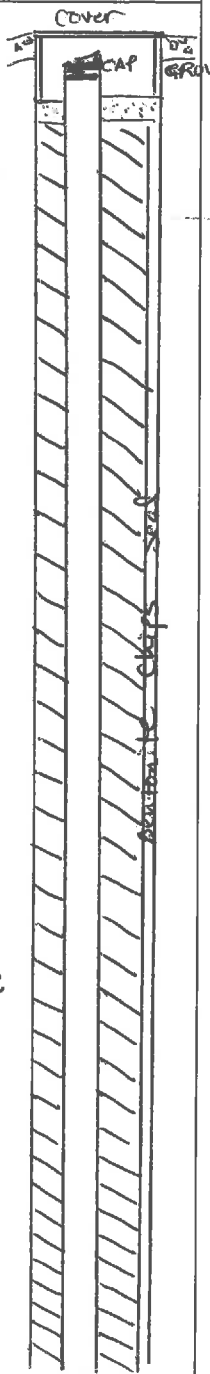
TEST HOLE/WELL LOG Page 1 of 2

Test/Well Number: MH-9 Project: Hartwig W/S-6 Task 4
Date: 06/25/12 Project Number: 0 All-2359
Logged By: James Hix Drilled By: Site Services
Drilling Method: CMETS/HSA Sampling Method: Split

Elevation: Detector Mini Rae Seal: Bentonite Grout: Sakrete
Gravel Pack: 10-20 silica sand (24' to 12' bgs) Hole Dia.: 8.25" F. L. Meter:
Casing Type: Schedule 40 Pk Diameter: 2" Length: 14 ft± DTP: ND DTW: 18 ft
Screen Type: Sch 40 Slot: 0.010 Diameter: 2" Length: 10 ft Well Depth: 24 ft Total Depth: 24 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass, bare soil	
								1				
								2				
								3				
CL	10YR 5/4	Dry Moist	60% BOSS 10%	MASS		NO	4	4.0 to 6.0 ft clay/silty clay (CL) mod. yellowish brown (10YR 5/4) moist, 60% clay 30% silt, massive	2	2	No odor & no staining	
SM					1.3		5	PID 1.3 ppm @ 6 ft	95%	3		
							6		5	6		
							7					
							8					
SC/CL	10YR 5/4	Moist		MASS	0.3	NO	9	9.0 to 11.0 ft clayey sand to silty gravel (SC-GC) ~ 3" thick mod vel of brn (10YR 5/4) moist, massive	2	2	PID 0.3 ppm @ 9 ft	
CL							10	Clay (CL) same as above.	100%	4	No odor; No staining OVM = 1.5 ppm @ 11 ft.	
					1.5		11		4	4		
							12					
							13					
SM	10YR 5/4	Moist	60% BOSS 55%	MASS		NO	14	14.0 to 16.0 ft silty clay w/ silt and silty sand stringers/lenses at 15 ft & 16 ft 2 to 3" thick.	2	4	No odor; No staining plastic clay	
CL			60		2.1		15	OVM 2.1 ppm @ 16 ft	100%	5		
SC							16		7	7		
CL							17					
							18					
							19					
CL	10YR 5/4	SAT	65% BOSS 35%	MASS	1.2	NO	20	19.0 to 21.0 ft silty clay (CL) mod. yellow brown (10YR 5/4) saturated 65% clay 35% silt, massive, plastic	3	5	No odor; No staining here	
							21		100%	7	PID = nil ppm @ 21 ft	
					1.0					8		

LOCATION MAP				4690 Table Mountain Drive #200 Golden, CO 80403 T. 303.237.2072 F. 303.237.2659	
TEST HOLE/ WELL LOG				Page 1 of 2	
Elevation:		Detector: MiniRae		Seal: Bentonite	
Gravel Pack: 10-20 Silica Sand (34' to 20')		Hole Dia: 8.25		F. L. Meter:	
Casing Type: Schedule 40 PIC		Diameter: 2"		Length: 24 ft	
Screen Type: Sch 40 PIC Slot: 0.010		Diameter: 2"		Length: 10 ft	
		Grout: Sakrete		DTP: ND	
				DTW: 27'	
				Well Depth: 34'	
				Total Depth: 36'	

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Grass, Soil	
GC	10YR 2/2	Dry		SBK	0.3	NO		4	13		4.0 to 6.0 clayey sand & gravel (GC), Dusky yellow brn (10YR 2/2) Dry, subangular blocky. No odor No staining. Concrete debris upper part of the interval. PID = 0.3 ppm @ 6 ft	
								5	90	14		
								6	9	10		
								9	5		9.0 to 11.0 ft silty clay, mod yellow brown (10YR 5/4) Dry, 60% clay 35% silt 5% v. fine sand weak to med. subangular blocky No odor; No staining. PID = 0.7 ppm @ 11 ft	
CL	10YR 5/4	Dry	60CI 55S 55	W/A SBK	0.2	NO		10	85	8		
								11	9	10		
								14	3		14.0 to 16.0 silty clay, mod yellow brn (10YR 5/4) moist/slightly moist, 55% clay, 45% silt, massive No odor; No staining OVM = 0.4 ppm @ 16 ft	
CL	10YR 5/4	Slight Moist	55CI 45S 55	MASS		NO		15	90	7		
					0.4			16	9	11		
								19			19.0 to 21.0 ft upper 1.5 ft is clayey silt (SM) lower 0.5 ft is clay plastic, hard, slightly moist micaceous No odor; No staining	
SM	10YR 5/4	Slight Moist	50S 45CI 53	MASS	0.2	NO		19	3			
								20	100	4		
CL								20	9	6		
								21		9		

OVM = 0.2 ppm @ 21 ft

LOCATION MAP



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Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

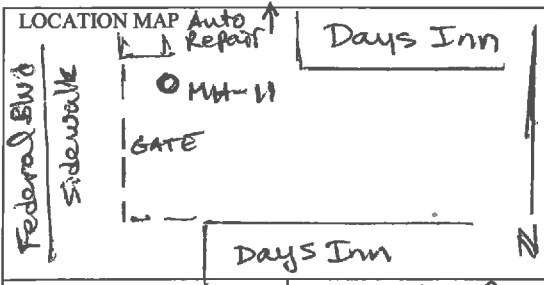
TEST HOLE/ WELL LOG

Page 2 of 2

Test/Well Number: **MH-10** Project: **Hartwig U.S. 6 Task 4**
Date: **06/25/12** Project Number: **A102359**
Logged By: **James** Drilled By: **Site Services**
Drilling Method: **CME 75/WSA** Sampling Method: **Splitspoon**

Elevation: _____ Detector: _____ Seal: _____ Grout: **Sakrete**
Gravel Pack: _____ Hole Dia.: **8.24"** F. L. Meter: _____
Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **24** DTP: **NR** DTW: _____
Screen Type: **Schedule 40 PVC Slot: 0.010** Diameter: **2"** Length: **10** Well Depth: **34 ft** Total Depth: **36 ft**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								21				
								22				
CL	10YR 5/4	Moist	60% 40%	MASS	0.4			23		3	23.0 to 25.0 Clay/silty clay (CL) mod. yel-brn (10YR 5/4) moist, 60% clay 40% silt, massive No odor, No staining OVM = 0.4 ppm @ 25 ft	
						No	24	100%	5	6		
							25					
							26					
							27					
CL	10YR 5/4	Very Moist	60% 40%	MASS	0.2			28		0	28.0 to 30.0 ft: Clay (CL) mod. yel-brn (10YR 5/4), very moist, 60% clay, 40% silt, massive. No odor, No staining OVM = 0.2 ppm @ 29 ft.	
						No	29	95%	3	4		
							30					
							31					
							32					
SC	10YR 5/4	Wet Sat	50% 40% 10%	MASS	1.2			33				
CL	10YR 5/4	Wet Sat	50% 40% 10%	MASS	1.2			34		5	34.0 to 36.0 clayey sand (SC) mod yel-brn to dark yel-brn upper 4" wet to saturated 50% sand 40% clay 10% silt massive No odor, No staining TD = 34 ft OVM = 1.2 @ 34' B.O.B = 36.0' (splitspoon)	
								35	100%	4		
								36		4		
								37		8		
								38				
								39				
								40				



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 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG Page 1 of 2

Test/Well Number: **MH-11** Project: **Hartwig U.S. 6**
 Date: **06/25/12** Project Number: **AW-2359**
 Logged By: **James Hix** Drilled By: **Site Services**
 Drilling Method: **CM675/HSA** Sampling Method: **Splitspoon**

Elevation: _____ Detector: **Mini Rae** Seal: **Bentonite** Grout: **Sakrete**
 Gravel Pack: **10-20 Silica Sand** Hole Dia.: **8.25** F. L. Meter: _____
 Casing Type: **Schedule 40 PVC** Diameter: **2"** Length: **24** DTP: **Impact** DTW: **23**
 Screen Type: **Sch 40** Slot: **0.010** Diameter: **2"** Length: **15** Well Depth: **39'** Total Depth: **39'**

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
								0			Asphalt 2.5" to 3" thick	
								1				
								2				
								3				
CL	10YR 5/4	Moist	55% 45%	MASS	1.7	NO		4	2		4.0 to 6.0 ft Clay/Silty clay (CL) mod. yellow brown (10YR 5/4) moist, 55% clay 45% silt, massive No odor, No staining OVM = 17 ppm @ 6 ft	
								5	75%	3		
								6	4	6		
								7				
								8				
								9		1		
CL	10YR 5/4	Moist	55% 45%	MASS	1.77	NO		10	60%	3	9.0 to 11.0 ft Clay (CL) mod. yellow brown (10YR 5/4) moist 55% clay 45% silt massive, No odor, No staining OVM = 177 ppm @ 11 ft	
								11		3		
								12		5		
								13				
								14		1		
CL	10YR 5/4	Moist		MASS	2.04	NO		15	60%	3	14.0 to 16.0 ft silty clay (CL) bottom 4" of spoon silty sand (SM), weak platy, variegated Dark yellow brown (10YR 4/2) Dusky yellow brown (10YR 2/2) OVM = 204 ppm @ 16 ft	
SM	10YR 4/2			weak platy				16		5		
	2/2							17		9		
								18				
SC	5Y 5/2	Moist		MASS				19	1150	2	19.0 to 21.0 ft silty Sand-clayey sand Light olive gray (5Y 5/2) to Olive gray (5Y 3/2) moist, massive Staining observed. An odor was	
CL	5Y 3/2							20	95%	5	detected. OVM = 1750 ppm @ 20 ft	
								at		4		

ATTACHMENT B
SOIL SAMPLE
ANALYTICAL RESULTS



FG-Jul-2012

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: US Hwy 6 & Fed Blvd Bridges Task 4

Work Order: **1206925**

Dear James,

ALS Environmental received 19 samples on 21-Jun-2012 through 23-Jun-2012 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 42.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Patricia L. Lynch".

Electronically approved by: Kelsey N. Brown

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Work Order: 1206925

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1206925-01	MH - 1 @ 20 FT	Soil		6/20/2012 09:30	6/21/2012 09:00	<input type="checkbox"/>
1206925-02	MH -1 @ 34 FT	Soil		6/20/2012 10:00	6/21/2012 09:00	<input type="checkbox"/>
1206925-03	MH -2 @ 20 FT	Soil		6/20/2012 10:00	6/21/2012 09:00	<input type="checkbox"/>
1206925-04	MH -2 @ 30 FT	Soil		6/20/2012 13:15	6/21/2012 09:00	<input type="checkbox"/>
1206925-05	MH -12 @ 16 FT	Soil		6/20/2012 15:30	6/21/2012 09:00	<input type="checkbox"/>
1206925-06	MH -12 @ 23 FT	Soil		6/20/2012 15:45	6/21/2012 09:00	<input type="checkbox"/>
1206925-07	Trip Blank 052212-34	Water		6/20/2012	6/21/2012 09:00	<input type="checkbox"/>
1206925-08	MH - 3 @ 20 FT	Soil		6/21/2012 09:20	6/22/2012 09:20	<input type="checkbox"/>
1206925-09	MH - 3 @ 24 FT	Soil		6/21/2012 09:30	6/22/2012 09:20	<input type="checkbox"/>
1206925-10	MH - 4 @ 15 FT	Soil		6/21/2012 11:35	6/22/2012 09:20	<input type="checkbox"/>
1206925-11	MH - 4 @ 20 FT	Soil		6/21/2012 11:55	6/22/2012 09:20	<input type="checkbox"/>
1206925-12	MH - 5 @ 20 FT	Soil		6/21/2012 14:05	6/22/2012 09:20	<input type="checkbox"/>
1206925-13	MH - 5 @ 30 FT	Soil		6/21/2012 14:30	6/22/2012 09:20	<input type="checkbox"/>
1206925-14	Trip Blank 052212-36	Water			6/22/2012 09:20	<input type="checkbox"/>
1206925-15	MH-6 @ 35FT	Soil		6/22/2012 09:30	6/23/2012 09:25	<input type="checkbox"/>
1206925-16	MH-7 @20FT	Soil		6/22/2012 11:55	6/23/2012 09:25	<input type="checkbox"/>
1206925-17	MH-7 @29FT	Soil		6/22/2012 12:25	6/23/2012 09:25	<input type="checkbox"/>
1206925-18	MH-8 @20FT	Soil		6/22/2012 14:30	6/23/2012 09:25	<input type="checkbox"/>
1206925-19	MH-8 @24FT	Soil		6/22/2012 14:44	6/23/2012 09:25	<input type="checkbox"/>

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Work Order: 1206925

Case Narrative

Batch 62276, Metals: MS/MSD recoveries for barium, iron, manganese and zinc and duplicate RPD for manganese are outside the control limits in sample MH-1 @20 FT due to the sample matrix. The MS/MSD results are flagged with E and/or O due to the high concentration in the background sample.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
 Project: US Hwy 6 & Fed Blvd Bridges Task 4
 Sample ID: MH - 1 @ 20 FT
 Collection Date: 6/20/2012 09:30 AM

Work Order: 1206925
 Lab ID: 1206925-01
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.16		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Barium	134		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Cadmium	0.131	J	0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Chromium	7.71		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Iron	15,700		48.0	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Lead	8.57		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Manganese	439		4.80	mg/Kg	10	7/1/2012	7/3/2012 02:28 PM
Molybdenum	0.235	J	0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Selenium	0.528		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Silver	U		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Uranium	0.884		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
Zinc	46.1		0.480	mg/Kg	1	7/1/2012	7/2/2012 04:25 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 06:17 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 06:17 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 06:17 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 06:17 PM
Surr: 1,2-Dichloroethane-d4	78.7		70-128	%REC	1		6/22/2012 06:17 PM
Surr: 4-Bromofluorobenzene	94.3		73-126	%REC	1		6/22/2012 06:17 PM
Surr: Dibromofluoromethane	94.8		71-128	%REC	1		6/22/2012 06:17 PM
Surr: Toluene-d8	99.9		73-127	%REC	1		6/22/2012 06:17 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	26.1		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH -1 @ 34 FT
Collection Date: 6/20/2012 10:00 AM

Work Order: 1206925
Lab ID: 1206925-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.28		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Barium	180		4.57	mg/Kg	10	7/1/2012	7/3/2012 02:43 PM
Cadmium	0.130	J	0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Chromium	10.3		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Iron	16,300		45.7	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Lead	9.04		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Manganese	357		4.57	mg/Kg	10	7/1/2012	7/3/2012 02:43 PM
Molybdenum	0.296	J	0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Selenium	0.805		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Silver	U		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Uranium	1.11		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
Zinc	47.8		0.457	mg/Kg	1	7/1/2012	7/2/2012 04:46 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 06:40 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 06:40 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 06:40 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 06:40 PM
Surr: 1,2-Dichloroethane-d4	78.4		70-128	%REC	1		6/22/2012 06:40 PM
Surr: 4-Bromofluorobenzene	94.4		73-126	%REC	1		6/22/2012 06:40 PM
Surr: Dibromofluoromethane	91.1		71-128	%REC	1		6/22/2012 06:40 PM
Surr: Toluene-d8	98.8		73-127	%REC	1		6/22/2012 06:40 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	17.5		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH -2 @ 20 FT
Collection Date: 6/20/2012 10:00 AM

Work Order: 1206925
Lab ID: 1206925-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.03		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Barium	187		4.35	mg/Kg	10	7/1/2012	7/3/2012 02:45 PM
Cadmium	0.120	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Chromium	6.72		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Iron	14,100		43.5	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Lead	7.75		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Manganese	302		4.35	mg/Kg	10	7/1/2012	7/3/2012 02:45 PM
Molybdenum	0.194	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Selenium	0.568		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Silver	0.0726	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Uranium	0.878		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
Zinc	40.4		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:48 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 07:04 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 07:04 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 07:04 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 07:04 PM
Surr: 1,2-Dichloroethane-d4	75.4		70-128	%REC	1		6/22/2012 07:04 PM
Surr: 4-Bromofluorobenzene	93.5		73-126	%REC	1		6/22/2012 07:04 PM
Surr: Dibromofluoromethane	94.6		71-128	%REC	1		6/22/2012 07:04 PM
Surr: Toluene-d8	101		73-127	%REC	1		6/22/2012 07:04 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	22.7		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH -2 @ 30 FT
Collection Date: 6/20/2012 01:15 PM

Work Order: 1206925
Lab ID: 1206925-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.28		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Barium	209		4.35	mg/Kg	10	7/1/2012	7/3/2012 02:48 PM
Cadmium	0.139	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Chromium	8.98		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Iron	13,500		43.5	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Lead	8.50		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Manganese	431		4.35	mg/Kg	10	7/1/2012	7/3/2012 02:48 PM
Molybdenum	0.158	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Selenium	0.419	J	0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Silver	U		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Uranium	1.23		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
Zinc	39.0		0.435	mg/Kg	1	7/1/2012	7/2/2012 04:51 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 07:27 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 07:27 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 07:27 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 07:27 PM
Surr: 1,2-Dichloroethane-d4	79.7		70-128	%REC	1		6/22/2012 07:27 PM
Surr: 4-Bromofluorobenzene	95.6		73-126	%REC	1		6/22/2012 07:27 PM
Surr: Dibromofluoromethane	95.0		71-128	%REC	1		6/22/2012 07:27 PM
Surr: Toluene-d8	97.7		73-127	%REC	1		6/22/2012 07:27 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	19.6		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH -12 @ 16 FT
Collection Date: 6/20/2012 03:30 PM

Work Order: 1206925
Lab ID: 1206925-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	0.930		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Barium	23.6		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Cadmium	U		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Chromium	1.43		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Iron	2,490		48.4	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Lead	2.19		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Manganese	28.1		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Molybdenum	0.158	J	0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Selenium	0.431	J	0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Silver	U		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Uranium	0.648		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
Zinc	8.03		0.484	mg/Kg	1	7/1/2012	7/2/2012 04:54 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 07:50 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 07:50 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 07:50 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 07:50 PM
Surr: 1,2-Dichloroethane-d4	74.3		70-128	%REC	1		6/22/2012 07:50 PM
Surr: 4-Bromofluorobenzene	93.7		73-126	%REC	1		6/22/2012 07:50 PM
Surr: Dibromofluoromethane	93.2		71-128	%REC	1		6/22/2012 07:50 PM
Surr: Toluene-d8	101		73-127	%REC	1		6/22/2012 07:50 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	1.73		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
 Project: US Hwy 6 & Fed Blvd Bridges Task 4
 Sample ID: MH -12 @ 23 FT
 Collection Date: 6/20/2012 03:45 PM

Work Order: 1206925
 Lab ID: 1206925-06
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	0.841		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Barium	25.0		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Cadmium	U		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Chromium	1.59		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Iron	2,660		44.1	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Lead	1.89		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Manganese	23.4		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Molybdenum	0.161	J	0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Selenium	0.426	J	0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Silver	U		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Uranium	0.591		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
Zinc	7.92		0.441	mg/Kg	1	7/1/2012	7/2/2012 04:56 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/22/2012 08:14 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/22/2012 08:14 PM
Toluene	U		5.0	µg/Kg	1		6/22/2012 08:14 PM
Xylenes, Total	U		15	µg/Kg	1		6/22/2012 08:14 PM
Surr: 1,2-Dichloroethane-d4	79.4		70-128	%REC	1		6/22/2012 08:14 PM
Surr: 4-Bromofluorobenzene	94.8		73-126	%REC	1		6/22/2012 08:14 PM
Surr: Dibromofluoromethane	95.5		71-128	%REC	1		6/22/2012 08:14 PM
Surr: Toluene-d8	98.7		73-127	%REC	1		6/22/2012 08:14 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	7.77		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 3 @ 20 FT
Collection Date: 6/21/2012 09:20 AM

Work Order: 1206925
Lab ID: 1206925-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	1.70		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Barium	183		4.50	mg/Kg	10	7/1/2012	7/3/2012 02:51 PM
Cadmium	0.141	J	0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Chromium	8.79		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Iron	14,000		45.0	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Lead	8.89		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Manganese	346		4.50	mg/Kg	10	7/1/2012	7/3/2012 02:51 PM
Molybdenum	U		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Selenium	0.560		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Silver	U		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Uranium	1.03		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
Zinc	43.6		0.450	mg/Kg	1	7/1/2012	7/2/2012 04:59 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 11:19 AM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 11:19 AM
Toluene	U		5.0	µg/Kg	1		6/25/2012 11:19 AM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 11:19 AM
Surr: 1,2-Dichloroethane-d4	88.4		70-128	%REC	1		6/25/2012 11:19 AM
Surr: 4-Bromofluorobenzene	95.4		73-126	%REC	1		6/25/2012 11:19 AM
Surr: Dibromofluoromethane	98.3		71-128	%REC	1		6/25/2012 11:19 AM
Surr: Toluene-d8	92.7		73-127	%REC	1		6/25/2012 11:19 AM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	21.5		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 3 @ 24 FT
Collection Date: 6/21/2012 09:30 AM

Work Order: 1206925
Lab ID: 1206925-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.23		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Barium	258		4.79	mg/Kg	10	7/1/2012	7/3/2012 02:53 PM
Cadmium	0.273	J	0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Chromium	8.10		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Iron	15,800		47.9	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Lead	8.31		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Manganese	1,720		4.79	mg/Kg	10	7/1/2012	7/3/2012 02:53 PM
Molybdenum	0.587		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Selenium	0.733		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Silver	U		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Uranium	1.03		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
Zinc	46.0		0.479	mg/Kg	1	7/1/2012	7/2/2012 05:01 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 11:49 AM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 11:49 AM
Toluene	U		5.0	µg/Kg	1		6/25/2012 11:49 AM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 11:49 AM
Surr: 1,2-Dichloroethane-d4	94.3		70-128	%REC	1		6/25/2012 11:49 AM
Surr: 4-Bromofluorobenzene	96.4		73-126	%REC	1		6/25/2012 11:49 AM
Surr: Dibromofluoromethane	97.4		71-128	%REC	1		6/25/2012 11:49 AM
Surr: Toluene-d8	96.2		73-127	%REC	1		6/25/2012 11:49 AM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	27.5		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 4 @ 15 FT
Collection Date: 6/21/2012 11:35 AM

Work Order: 1206925
Lab ID: 1206925-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	1.95		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Barium	168		4.81	mg/Kg	10	7/1/2012	7/3/2012 02:56 PM
Cadmium	0.122	J	0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Chromium	8.38		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Iron	14,400		48.1	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Lead	7.74		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Manganese	511		4.81	mg/Kg	10	7/1/2012	7/3/2012 02:56 PM
Molybdenum	0.187	J	0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Selenium	0.514		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Silver	U		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Uranium	1.03		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
Zinc	41.2		0.481	mg/Kg	1	7/1/2012	7/2/2012 06:21 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 01:46 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 01:46 PM
Toluene	U		5.0	µg/Kg	1		6/25/2012 01:46 PM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 01:46 PM
Surr: 1,2-Dichloroethane-d4	92.8		70-128	%REC	1		6/25/2012 01:46 PM
Surr: 4-Bromofluorobenzene	100		73-126	%REC	1		6/25/2012 01:46 PM
Surr: Dibromofluoromethane	95.8		71-128	%REC	1		6/25/2012 01:46 PM
Surr: Toluene-d8	95.5		73-127	%REC	1		6/25/2012 01:46 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	23.2		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 4 @ 20 FT
Collection Date: 6/21/2012 11:55 AM

Work Order: 1206925
Lab ID: 1206925-11
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	3.22		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Barium	286		4.83	mg/Kg	10	7/1/2012	7/3/2012 02:58 PM
Cadmium	0.0962	J	0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Chromium	5.93		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Iron	14,000		48.3	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Lead	5.73		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Manganese	373		4.83	mg/Kg	10	7/1/2012	7/3/2012 02:58 PM
Molybdenum	0.236	J	0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Selenium	0.409	J	0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Silver	U		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Uranium	0.904		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
Zinc	33.4		0.483	mg/Kg	1	7/1/2012	7/2/2012 06:24 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 02:15 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 02:15 PM
Toluene	U		5.0	µg/Kg	1		6/25/2012 02:15 PM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 02:15 PM
Surr: 1,2-Dichloroethane-d4	86.0		70-128	%REC	1		6/25/2012 02:15 PM
Surr: 4-Bromofluorobenzene	96.9		73-126	%REC	1		6/25/2012 02:15 PM
Surr: Dibromofluoromethane	92.9		71-128	%REC	1		6/25/2012 02:15 PM
Surr: Toluene-d8	94.0		73-127	%REC	1		6/25/2012 02:15 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	18.3		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 5 @ 20 FT
Collection Date: 6/21/2012 02:05 PM

Work Order: 1206925
Lab ID: 1206925-12
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.05		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Barium	299		4.42	mg/Kg	10	7/1/2012	7/3/2012 03:01 PM
Cadmium	0.132	J	0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Chromium	6.98		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Iron	13,100		44.2	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Lead	7.30		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Manganese	573		4.42	mg/Kg	10	7/1/2012	7/3/2012 03:01 PM
Molybdenum	0.165	J	0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Selenium	0.384	J	0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Silver	U		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Uranium	0.496		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
Zinc	35.5		0.442	mg/Kg	1	7/1/2012	7/2/2012 06:27 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 02:44 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 02:44 PM
Toluene	U		5.0	µg/Kg	1		6/25/2012 02:44 PM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 02:44 PM
Surr: 1,2-Dichloroethane-d4	89.8		70-128	%REC	1		6/25/2012 02:44 PM
Surr: 4-Bromofluorobenzene	96.4		73-126	%REC	1		6/25/2012 02:44 PM
Surr: Dibromofluoromethane	95.2		71-128	%REC	1		6/25/2012 02:44 PM
Surr: Toluene-d8	95.8		73-127	%REC	1		6/25/2012 02:44 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	26.0		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH - 5 @ 30 FT
Collection Date: 6/21/2012 02:30 PM

Work Order: 1206925
Lab ID: 1206925-13
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	0.806		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Barium	19.3		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Cadmium	U		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Chromium	2.56		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Iron	3.690		44.4	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Lead	3.28		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Manganese	32.8		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Molybdenum	0.148	J	0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Selenium	0.278	J	0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Silver	U		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Uranium	0.571		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
Zinc	8.94		0.444	mg/Kg	1	7/1/2012	7/2/2012 06:29 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/25/2012 03:13 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/25/2012 03:13 PM
Toluene	U		5.0	µg/Kg	1		6/25/2012 03:13 PM
Xylenes, Total	U		15	µg/Kg	1		6/25/2012 03:13 PM
Surr: 1,2-Dichloroethane-d4	86.6		70-128	%REC	1		6/25/2012 03:13 PM
Surr: 4-Bromofluorobenzene	97.7		73-126	%REC	1		6/25/2012 03:13 PM
Surr: Dibromofluoromethane	94.5		71-128	%REC	1		6/25/2012 03:13 PM
Surr: Toluene-d8	93.4		73-127	%REC	1		6/25/2012 03:13 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	1.63		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: Trip Blank 052212-36
Collection Date:

Work Order: 1206925
Lab ID: 1206925-14
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1		6/26/2012 02:40 PM
Ethylbenzene	U		5.0	µg/L	1		6/26/2012 02:40 PM
Toluene	U		5.0	µg/L	1		6/26/2012 02:40 PM
Xylenes, Total	U		15	µg/L	1		6/26/2012 02:40 PM
Surr: 1,2-Dichloroethane-d4	110		70-125	%REC	1		6/26/2012 02:40 PM
Surr: 4-Bromofluorobenzene	94.5		72-125	%REC	1		6/26/2012 02:40 PM
Surr: Dibromofluoromethane	116		71-125	%REC	1		6/26/2012 02:40 PM
Surr: Toluene-d8	93.5		75-125	%REC	1		6/26/2012 02:40 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-6 @ 35FT
Collection Date: 6/22/2012 09:30 AM

Work Order: 1206925
Lab ID: 1206925-15
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	0.805		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Barium	15.7		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Cadmium	U		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Chromium	3.98		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Iron	2,640		43.2	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Lead	2.14		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Manganese	35.6		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Molybdenum	0.902		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Selenium	0.177	J	0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Silver	U		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Uranium	0.729		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
Zinc	8.32		0.432	mg/Kg	1	7/1/2012	7/2/2012 06:32 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/26/2012 04:03 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/26/2012 04:03 PM
Toluene	U		5.0	µg/Kg	1		6/26/2012 04:03 PM
Xylenes, Total	U		15	µg/Kg	1		6/26/2012 04:03 PM
Surr: 1,2-Dichloroethane-d4	72.3		70-128	%REC	1		6/26/2012 04:03 PM
Surr: 4-Bromofluorobenzene	93.3		73-126	%REC	1		6/26/2012 04:03 PM
Surr: Dibromofluoromethane	90.2		71-128	%REC	1		6/26/2012 04:03 PM
Surr: Toluene-d8	97.1		73-127	%REC	1		6/26/2012 04:03 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	14.6		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-7 @20FT
Collection Date: 6/22/2012 11:55 AM

Work Order: 1206925
Lab ID: 1206925-16
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.58		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Barium	121		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Cadmium	0.0900	J	0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Chromium	11.4		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Iron	15,500		46.8	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Lead	9.84		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Manganese	209		4.68	mg/Kg	10	7/1/2012	7/3/2012 03:03 PM
Molybdenum	0.183	J	0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Selenium	0.507		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Silver	U		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Uranium	0.871		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
Zinc	50.3		0.468	mg/Kg	1	7/1/2012	7/2/2012 06:34 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/26/2012 04:26 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/26/2012 04:26 PM
Toluene	U		5.0	µg/Kg	1		6/26/2012 04:26 PM
Xylenes, Total	U		15	µg/Kg	1		6/26/2012 04:26 PM
Surr: 1,2-Dichloroethane-d4	74.9		70-128	%REC	1		6/26/2012 04:26 PM
Surr: 4-Bromofluorobenzene	93.4		73-126	%REC	1		6/26/2012 04:26 PM
Surr: Dibromofluoromethane	91.9		71-128	%REC	1		6/26/2012 04:26 PM
Surr: Toluene-d8	97.5		73-127	%REC	1		6/26/2012 04:26 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	22.0		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-7 @29FT
Collection Date: 6/22/2012 12:25 PM

Work Order: 1206925
Lab ID: 1206925-17
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	1.07		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Barium	29.4		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Cadmium	U		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Chromium	6.60		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Iron	8,830		44.5	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Lead	4.25		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Manganese	90.4		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Molybdenum	0.893		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Selenium	0.408	J	0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Silver	0.165	J	0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Uranium	1.71		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
Zinc	13.6		0.445	mg/Kg	1	7/1/2012	7/2/2012 06:42 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/26/2012 04:50 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/26/2012 04:50 PM
Toluene	U		5.0	µg/Kg	1		6/26/2012 04:50 PM
Xylenes, Total	U		15	µg/Kg	1		6/26/2012 04:50 PM
Surr: 1,2-Dichloroethane-d4	76.6		70-128	%REC	1		6/26/2012 04:50 PM
Surr: 4-Bromofluorobenzene	94.1		73-126	%REC	1		6/26/2012 04:50 PM
Surr: Dibromofluoromethane	92.5		71-128	%REC	1		6/26/2012 04:50 PM
Surr: Toluene-d8	95.6		73-127	%REC	1		6/26/2012 04:50 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	10.6		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-8 @20FT
Collection Date: 6/22/2012 02:30 PM

Work Order: 1206925
Lab ID: 1206925-18
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	2.37		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Barium	103		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Cadmium	0.0881	J	0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Chromium	9.59		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Iron	13,500		43.4	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Lead	8.98		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Manganese	142		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Molybdenum	0.263	J	0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Selenium	0.440		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Silver	U		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Uranium	1.98		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
Zinc	45.1		0.434	mg/Kg	1	7/1/2012	7/2/2012 06:45 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/26/2012 05:14 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/26/2012 05:14 PM
Toluene	U		5.0	µg/Kg	1		6/26/2012 05:14 PM
Xylenes, Total	U		15	µg/Kg	1		6/26/2012 05:14 PM
Surr: 1,2-Dichloroethane-d4	76.9		70-128	%REC	1		6/26/2012 05:14 PM
Surr: 4-Bromofluorobenzene	93.2		73-126	%REC	1		6/26/2012 05:14 PM
Surr: Dibromofluoromethane	92.2		71-128	%REC	1		6/26/2012 05:14 PM
Surr: Toluene-d8	96.4		73-127	%REC	1		6/26/2012 05:14 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	28.8		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-8 @24FT
Collection Date: 6/22/2012 02:44 PM

Work Order: 1206925
Lab ID: 1206925-19
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
METALS			SW6020				Analyst: SKS
Arsenic	1.64		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Barium	278		4.51	mg/Kg	10	7/1/2012	7/3/2012 03:11 PM
Cadmium	0.0496	J	0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Chromium	4.95		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Iron	12,900		45.1	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Lead	5.37		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Manganese	238		4.51	mg/Kg	10	7/1/2012	7/3/2012 03:11 PM
Molybdenum	0.233	J	0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Selenium	0.310	J	0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Silver	U		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Uranium	0.756		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
Zinc	28.0		0.451	mg/Kg	1	7/1/2012	7/2/2012 06:47 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/26/2012 05:38 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/26/2012 05:38 PM
Toluene	U		5.0	µg/Kg	1		6/26/2012 05:38 PM
Xylenes, Total	U		15	µg/Kg	1		6/26/2012 05:38 PM
Surr: 1,2-Dichloroethane-d4	77.1		70-128	%REC	1		6/26/2012 05:38 PM
Surr: 4-Bromofluorobenzene	95.9		73-126	%REC	1		6/26/2012 05:38 PM
Surr: Dibromofluoromethane	92.9		71-128	%REC	1		6/26/2012 05:38 PM
Surr: Toluene-d8	99.1		73-127	%REC	1		6/26/2012 05:38 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	23.7		0.0100	wt%	1		6/29/2012 08:40 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1206925
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62276** Instrument ID **ICPMS05** Method: **SW6020**

MBLK Sample ID: **MBLKS1-070112-62276** Units: **mg/Kg** Analysis Date: **7/3/2012 02:22 PM**

Client ID: Run ID: **ICPMS05_120703A** SeqNo: **2844948** Prep Date: **7/1/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.50								
Barium	U	0.50								
Cadmium	U	0.50								
Chromium	U	0.50								
Iron	U	50								
Lead	U	0.50								
Manganese	U	0.50								
Molybdenum	U	0.50								
Selenium	U	0.50								
Silver	U	0.50								
Uranium	U	0.50								
Zinc	0.3329	0.50								J

LCS Sample ID: **MLCSS1-070112-62276** Units: **mg/Kg** Analysis Date: **7/3/2012 02:25 PM**

Client ID: Run ID: **ICPMS05_120703A** SeqNo: **2844949** Prep Date: **7/1/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.939	0.50	10	0	99.4	80-120	0			
Barium	9.935	0.50	10	0	99.4	80-120	0			
Cadmium	10.06	0.50	10	0	101	80-120	0			
Chromium	10.01	0.50	10	0	100	80-120	0			
Iron	993.8	50	1000	0	99.4	80-120	0			
Lead	10.11	0.50	10	0	101	80-120	0			
Manganese	10.01	0.50	10	0	100	80-120	0			
Molybdenum	10.01	0.50	10	0	100	80-120	0			
Selenium	9.862	0.50	10	0	98.6	80-120	0			
Silver	10.32	0.50	10	0	103	80-120	0			

LCS Sample ID: **MLCSS1-070112-62276** Units: **mg/Kg** Analysis Date: **7/5/2012 04:08 PM**

Client ID: Run ID: **ICPMS05_120705A** SeqNo: **2846719** Prep Date: **7/1/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	10.23	0.50	10	0	102	80-120	0			
Zinc	9.652	0.50	10	0	96.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: 62276 Instrument ID ICPMS05 Method: SW6020

MS Sample ID: 1206925-01BMS Units: mg/Kg Analysis Date: 7/2/2012 04:31 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120702A SeqNo: 2843337 Prep Date: 7/1/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.37	0.47	9.364	2.159	87.7	75-125	0			
Barium	138.8	0.47	9.364	133.8	54	75-125	0			SO
Cadmium	8.799	0.47	9.364	0.1314	92.6	75-125	0			
Chromium	16.34	0.47	9.364	7.713	92.1	75-125	0			
Iron	16290	47	936.4	15740	58.9	75-125	0			SO
Lead	16.98	0.47	9.364	8.568	89.8	75-125	0			
Manganese	372.2	0.47	9.364	413.6	-442	75-125	0			SEO
Molybdenum	8.65	0.47	9.364	0.2346	89.9	75-125	0			
Selenium	9.188	0.47	9.364	0.5276	92.5	75-125	0			
Silver	8.687	0.47	9.364	0.06357	92.1	75-125	0			
Zinc	52.19	0.47	9.364	46.09	65.2	75-125	0			SO

MS Sample ID: 1206925-01BMS Units: mg/Kg Analysis Date: 7/5/2012 04:11 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120705A SeqNo: 2846721 Prep Date: 7/1/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	10.51	0.47	9.364	0	112	75-125	0			

MSD Sample ID: 1206925-01BMSD Units: mg/Kg Analysis Date: 7/2/2012 04:38 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120702A SeqNo: 2843340 Prep Date: 7/1/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.45	0.46	9.275	2.159	89.4	75-125	10.37	0	25	
Barium	126.3	0.46	9.275	133.8	-80.9	75-125	138.8	0	25	SO
Cadmium	8.962	0.46	9.275	0.1314	95.2	75-125	8.799	0	25	
Chromium	15.54	0.46	9.275	7.713	84.4	75-125	16.34	0	25	
Iron	15770	46	927.5	15740	3.51	75-125	16290	0	25	SO
Lead	17.02	0.46	9.275	8.568	91.2	75-125	16.98	0	25	
Manganese	448.2	0.46	9.275	413.6	373	75-125	372.2	0	25	SEO
Molybdenum	8.592	0.46	9.275	0.2346	90.1	75-125	8.65	0	25	
Selenium	9.261	0.46	9.275	0.5276	94.2	75-125	9.188	0	25	
Silver	8.599	0.46	9.275	0.06357	92	75-125	8.687	0	25	
Zinc	50.75	0.46	9.275	46.09	50.2	75-125	52.19	0	25	SO

MSD Sample ID: 1206925-01BMSD Units: mg/Kg Analysis Date: 7/5/2012 04:13 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120705A SeqNo: 2846723 Prep Date: 7/1/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	10.52	0.46	9.275	0	113	75-125	10.51	0.0408	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: 62276 Instrument ID ICPMS05 Method: SW6020

DUP Sample ID: 1206925-01BDUP Units: mg/Kg Analysis Date: 7/2/2012 04:28 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120702A SeqNo: 2843336 Prep Date: 7/1/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.985	0.47	0	0	0	0-0	2.159	0	25	
Barium	118.6	0.47	0	0	0	0-0	133.8	0	25	
Cadmium	0.1383	0.47	0	0	0	0-0	0.1314	0	25	J
Chromium	7.414	0.47	0	0	0	0-0	7.713	0	25	
Iron	15140	47	0	0	0	0-0	15740	0	25	
Lead	7.965	0.47	0	0	0	0-0	8.568	0	25	
Molybdenum	0.1597	0.47	0	0	0	0-0	0.2346	0	25	J
Selenium	0.6776	0.47	0	0	0	0-0	0.5276	0	25	
Silver	U	0.47	0	0	0	0-0	0.06357	0	25	
Uranium	0.8747	0.47	0	0	0		0.8842	0	25	
Zinc	44.5	0.47	0	0	0	0-0	46.09	0	25	

DUP Sample ID: 1206925-01BDUP Units: mg/Kg Analysis Date: 7/3/2012 02:30 PM
 Client ID: MH - 1 @ 20 FT Run ID: ICPMS05_120703A SeqNo: 2844951 Prep Date: 7/1/2012 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	303.7	4.7	0	0	0	0-0	439.3	36.5	25	R

The following samples were analyzed in this batch:

1206925-01B	1206925-02B	1206925-03B
1206925-04B	1206925-05B	1206925-06B
1206925-08B	1206925-09B	1206925-10B
1206925-11B	1206925-12B	1206925-13B
1206925-15B	1206925-16B	1206925-17B
1206925-18B	1206925-19B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R129915 Instrument ID VOA5 Method: SW8260

MBLK Sample ID: VBLKS1-062212-R129915 Units: $\mu\text{g/Kg}$ Analysis Date: 6/22/2012 10:27 AM

Client ID: Run ID: VOA5_120622A SeqNo: 2830547 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	37.67	0	50	0	75.3	70-128	0			
Surr: 4-Bromofluorobenzene	48.11	0	50	0	96.2	73-126	0			
Surr: Dibromofluoromethane	47.57	0	50	0	95.1	71-128	0			
Surr: Toluene-d8	51.05	0	50	0	102	73-127	0			

LCS Sample ID: VLCSS1-062212-R129915 Units: $\mu\text{g/Kg}$ Analysis Date: 6/22/2012 09:40 AM

Client ID: Run ID: VOA5_120622A SeqNo: 2830546 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.64	5.0	50	0	93.3	79-120	0			
Ethylbenzene	49.88	5.0	50	0	99.8	80-122	0			
Toluene	48.13	5.0	50	0	96.3	79-120	0			
Xylenes, Total	151.2	15	150	0	101	80-120	0			
Surr: 1,2-Dichloroethane-d4	41.22	0	50	0	82.4	70-128	0			
Surr: 4-Bromofluorobenzene	47.52	0	50	0	95	73-126	0			
Surr: Dibromofluoromethane	49.48	0	50	0	99	71-128	0			
Surr: Toluene-d8	49.23	0	50	0	98.5	73-127	0			

MS Sample ID: 1206880-01ZMS Units: $\mu\text{g/Kg}$ Analysis Date: 6/22/2012 11:36 AM

Client ID: Run ID: VOA5_120622A SeqNo: 2830549 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.66	5.0	50	0	97.3	79-120	0			
Ethylbenzene	49.45	5.0	50	0	98.9	80-122	0			
Toluene	47.08	5.0	50	0	94.2	79-120	0			
Xylenes, Total	144.7	15	150	0	96.5	80-120	0			
Surr: 1,2-Dichloroethane-d4	40	0	50	0	80	70-128	0			
Surr: 4-Bromofluorobenzene	48.13	0	50	0	96.3	73-126	0			
Surr: Dibromofluoromethane	48.66	0	50	0	97.3	71-128	0			
Surr: Toluene-d8	48.07	0	50	0	96.1	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R129915 Instrument ID VOA5 Method: SW8260

MSD		Sample ID: 1206880-01ZMSD			Units: µg/Kg			Analysis Date: 6/22/2012 11:59 AM		
Client ID:		Run ID: VOA5_120622A			SeqNo: 2830550		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.58	5.0	50	0	97.2	79-120	48.66	0.153	30	
Ethylbenzene	52.66	5.0	50	0	105	80-122	49.45	6.29	30	
Toluene	50.56	5.0	50	0	101	79-120	47.08	7.13	30	
Xylenes, Total	153.1	15	150	0	102	80-120	144.7	5.67	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	38.42	0	50	0	76.8	70-128	40	4.04	30	
<i>Surr: 4-Bromofluorobenzene</i>	47.78	0	50	0	95.6	73-126	48.13	0.732	30	
<i>Surr: Dibromofluoromethane</i>	48.61	0	50	0	97.2	71-128	48.66	0.103	30	
<i>Surr: Toluene-d8</i>	49.22	0	50	0	98.4	73-127	48.07	2.37	30	

The following samples were analyzed in this batch:

1206925-01A	1206925-02A	1206925-03A
1206925-04A	1206925-05A	1206925-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130095 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS1-062512-R130095			Units: µg/Kg			Analysis Date: 6/25/2012 10:51 AM		
Client ID:		Run ID: VOA3_120625A			SeqNo: 2833789			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	41.62	0	50	0	83.2	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	47.2	0	50	0	94.4	73-126	0			
<i>Surr: Dibromofluoromethane</i>	45.21	0	50	0	90.4	71-128	0			
<i>Surr: Toluene-d8</i>	46.49	0	50	0	93	73-127	0			

LCS		Sample ID: VLCSS1-062512-R130095			Units: µg/Kg			Analysis Date: 6/25/2012 09:23 AM		
Client ID:		Run ID: VOA3_120625A			SeqNo: 2833787			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.46	5.0	50	0	113	79-120	0			
Ethylbenzene	51.93	5.0	50	0	104	80-122	0			
Toluene	52.67	5.0	50	0	105	79-120	0			
Xylenes, Total	156.3	15	150	0	104	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	45.18	0	50	0	90.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	51.05	0	50	0	102	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.61	0	50	0	101	71-128	0			
<i>Surr: Toluene-d8</i>	49.01	0	50	0	98	73-127	0			

LCSD		Sample ID: VLCSDS1-062512-R130095			Units: µg/Kg			Analysis Date: 6/25/2012 09:53 AM		
Client ID:		Run ID: VOA3_120625A			SeqNo: 2833788			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.99	5.0	50	0	102	79-120	56.46	10.2	30	
Ethylbenzene	46.05	5.0	50	0	92.1	80-122	51.93	12	30	
Toluene	47.06	5.0	50	0	94.1	79-120	52.67	11.3	30	
Xylenes, Total	140.9	15	150	0	94	80-120	156.3	10.3	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	43.17	0	50	0	86.3	70-128	45.18	4.55	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.72	0	50	0	99.4	73-126	51.05	2.64	30	
<i>Surr: Dibromofluoromethane</i>	49.62	0	50	0	99.2	71-128	50.61	1.96	30	
<i>Surr: Toluene-d8</i>	47.72	0	50	0	95.4	73-127	49.01	2.67	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130095 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1206925-08AMS			Units: µg/Kg			Analysis Date: 6/25/2012 12:18 PM		
Client ID: MH - 3 @ 20 FT		Run ID: VOA3_120625A			SeqNo: 2833792			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	59.52	5.0	50	0	119	79-120	0			
Ethylbenzene	56.67	5.0	50	0	113	80-122	0			
Toluene	58.63	5.0	50	0	117	79-120	0			
Xylenes, Total	169.9	15	150	0	113	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	42.88	0	50	0	85.8	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.68	0	50	0	99.4	73-126	0			
<i>Surr: Dibromofluoromethane</i>	47.85	0	50	0	95.7	71-128	0			
<i>Surr: Toluene-d8</i>	47.9	0	50	0	95.8	73-127	0			

MSD		Sample ID: 1206925-08AMSD			Units: µg/Kg			Analysis Date: 6/25/2012 12:47 PM		
Client ID: MH - 3 @ 20 FT		Run ID: VOA3_120625A			SeqNo: 2833793			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	57.39	5.0	50	0	115	79-120	59.52	3.66	30	
Ethylbenzene	55.26	5.0	50	0	111	80-122	56.67	2.52	30	
Toluene	55.77	5.0	50	0	112	79-120	58.63	4.99	30	
Xylenes, Total	166.3	15	150	0	111	80-120	169.9	2.17	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	42.61	0	50	0	85.2	70-128	42.88	0.643	30	
<i>Surr: 4-Bromofluorobenzene</i>	51.29	0	50	0	103	73-126	49.68	3.19	30	
<i>Surr: Dibromofluoromethane</i>	48.54	0	50	0	97.1	71-128	47.85	1.42	30	
<i>Surr: Toluene-d8</i>	48.68	0	50	0	97.4	73-127	47.9	1.62	30	

The following samples were analyzed in this batch:

1206925-08A	1206925-09A	1206925-10A
1206925-11A	1206925-12A	1206925-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130160 Instrument ID VOA5 Method: SW8260

MBLK		Sample ID: VBLKS1-062612-R130160			Units: µg/Kg			Analysis Date: 6/26/2012 09:18 AM		
Client ID:		Run ID: VOA5_120626A			SeqNo: 2835532			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	35.59	0	50	0	71.2	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.55	0	50	0	93.1	73-126	0			
<i>Surr: Dibromofluoromethane</i>	48.38	0	50	0	96.8	71-128	0			
<i>Surr: Toluene-d8</i>	50.07	0	50	0	100	73-127	0			

LCS		Sample ID: VLCSS1-062612-R130160			Units: µg/Kg			Analysis Date: 6/26/2012 08:09 AM		
Client ID:		Run ID: VOA5_120626A			SeqNo: 2835530			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.08	5.0	50	0	94.2	79-120	0			
Ethylbenzene	48.06	5.0	50	0	96.1	80-122	0			
Toluene	46.1	5.0	50	0	92.2	79-120	0			
Xylenes, Total	139.3	15	150	0	92.9	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	40.22	0	50	0	80.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.31	0	50	0	96.6	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.04	0	50	0	100	71-128	0			
<i>Surr: Toluene-d8</i>	47.47	0	50	0	94.9	73-127	0			

LCSD		Sample ID: VLCSDS1-062612-R130160			Units: µg/Kg			Analysis Date: 6/26/2012 08:32 AM		
Client ID:		Run ID: VOA5_120626A			SeqNo: 2835531			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.75	5.0	50	0	97.5	79-120	47.08	3.48	30	
Ethylbenzene	53.8	5.0	50	0	108	80-122	48.06	11.3	30	
Toluene	50.7	5.0	50	0	101	79-120	46.1	9.49	30	
Xylenes, Total	154.3	15	150	0	103	80-120	139.3	10.2	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	39.12	0	50	0	78.2	70-128	40.22	2.78	30	
<i>Surr: 4-Bromofluorobenzene</i>	47.69	0	50	0	95.4	73-126	48.31	1.29	30	
<i>Surr: Dibromofluoromethane</i>	48.35	0	50	0	96.7	71-128	50.04	3.45	30	
<i>Surr: Toluene-d8</i>	47.28	0	50	0	94.6	73-127	47.47	0.418	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130160 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 1206944-01AMS			Units: µg/Kg			Analysis Date: 6/26/2012 11:15 AM		
Client ID:		Run ID: VOA5_120626A			SeqNo: 2835536		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.88	5.0	50	0	91.8	79-120	0			
Ethylbenzene	48.73	5.0	50	0	97.5	80-122	0			
Toluene	46.14	5.0	50	0	92.3	79-120	0			
Xylenes, Total	138.6	15	150	0	92.4	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	41.03	0	50	0	82.1	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.74	0	50	0	97.5	73-126	0			
<i>Surr: Dibromofluoromethane</i>	47.85	0	50	0	95.7	71-128	0			
<i>Surr: Toluene-d8</i>	47.36	0	50	0	94.7	73-127	0			

MSD		Sample ID: 1206944-01AMSD			Units: µg/Kg			Analysis Date: 6/26/2012 11:39 AM		
Client ID:		Run ID: VOA5_120626A			SeqNo: 2835537		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.82	5.0	50	0	106	79-120	45.88	14.1	30	
Ethylbenzene	55.15	5.0	50	0	110	80-122	48.73	12.4	30	
Toluene	52.84	5.0	50	0	106	79-120	46.14	13.5	30	
Xylenes, Total	160.1	15	150	0	107	80-120	138.6	14.4	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	40.16	0	50	0	80.3	70-128	41.03	2.13	30	
<i>Surr: 4-Bromofluorobenzene</i>	47.83	0	50	0	95.7	73-126	48.74	1.89	30	
<i>Surr: Dibromofluoromethane</i>	48.68	0	50	0	97.4	71-128	47.85	1.74	30	
<i>Surr: Toluene-d8</i>	48.39	0	50	0	96.8	73-127	47.36	2.16	30	

The following samples were analyzed in this batch:

1206925-15A	1206925-16A	1206925-17A
1206925-18A	1206925-19A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130175 Instrument ID VOA1 Method: SW8260

MBLK		Sample ID: VBLKW-062612-R130175			Units: µg/L			Analysis Date: 6/26/2012 11:56 AM		
Client ID:		Run ID: VOA1_120626A			SeqNo: 2835940			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	52.97	5.0	50	0	106	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	47.16	5.0	50	0	94.3	72-125	0			
<i>Surr: Dibromofluoromethane</i>	56.54	5.0	50	0	113	71-125	0			
<i>Surr: Toluene-d8</i>	45.4	5.0	50	0	90.8	75-125	0			

LCS		Sample ID: VLCSW-062612-R130175			Units: µg/L			Analysis Date: 6/26/2012 12:23 PM		
Client ID:		Run ID: VOA1_120626A			SeqNo: 2835941			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.56	5.0	50	0	101	73-121	0			
Ethylbenzene	47.61	5.0	50	0	95.2	80-120	0			
Toluene	45.97	5.0	50	0	91.9	80-120	0			
Xylenes, Total	142.2	15	150	0	94.8	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	46.31	5.0	50	0	92.6	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.98	5.0	50	0	98	72-125	0			
<i>Surr: Dibromofluoromethane</i>	52.36	5.0	50	0	105	71-125	0			
<i>Surr: Toluene-d8</i>	46.91	5.0	50	0	93.8	75-125	0			

MS		Sample ID: 12061014-01ZMS			Units: µg/L			Analysis Date: 6/26/2012 03:37 PM		
Client ID:		Run ID: VOA1_120626A			SeqNo: 2835945			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.44	5.0	50	0	94.9	73-121	0			
Ethylbenzene	43.06	5.0	50	0	86.1	80-120	0			
Toluene	42.91	5.0	50	0	85.8	80-120	0			
Xylenes, Total	122.8	15	150	0	81.9	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	47.76	5.0	50	0	95.5	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.4	5.0	50	0	101	72-125	0			
<i>Surr: Dibromofluoromethane</i>	52.21	5.0	50	0	104	71-125	0			
<i>Surr: Toluene-d8</i>	44.06	5.0	50	0	88.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1206925
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130175 Instrument ID VOA1 Method: SW8260

MSD		Sample ID: 12061014-01ZMSD			Units: µg/L			Analysis Date: 6/26/2012 04:05 PM		
Client ID:		Run ID: VOA1_120626A			SeqNo: 2835946		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.29	5.0	50	0	94.6	73-121	47.44	0.321	20	
Ethylbenzene	45.64	5.0	50	0	91.3	80-120	43.06	5.8	20	
Toluene	44.45	5.0	50	0	88.9	80-120	42.91	3.52	20	
Xylenes, Total	146.4	15	150	0	97.6	80-120	122.8	17.6	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.06	5.0	50	0	96.1	70-125	47.76	0.606	20	
<i>Surr: 4-Bromofluorobenzene</i>	51.32	5.0	50	0	103	72-125	50.4	1.8	20	
<i>Surr: Dibromofluoromethane</i>	51.68	5.0	50	0	103	71-125	52.21	1.03	20	
<i>Surr: Toluene-d8</i>	47.83	5.0	50	0	95.7	75-125	44.06	8.2	20	

The following samples were analyzed in this batch: 1206925-14A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1206925
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R130375** Instrument ID **Balance1** Method: **SW3550** **(Dissolve)**

DUP Sample ID: **1206925-18BDUP** Units: **wt%** Analysis Date: **6/29/2012 08:40 AM**

Client ID: **MH-8 @20FT** Run ID: **BALANCE1_120629B** SeqNo: **2840931** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	30.08	0.010	0	0	0	0-0	28.8	4.34	20	

The following samples were analyzed in this batch:

1206925-01B	1206925-02B	1206925-03B
1206925-04B	1206925-05B	1206925-06B
1206925-08B	1206925-09B	1206925-10B
1206925-11B	1206925-12B	1206925-13B
1206925-15B	1206925-16B	1206925-17B
1206925-18B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1206925
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R130436** Instrument ID **Balance1** Method: **SW3550 (Dissolve)**

DUP Sample ID: **12061170-02BDUP** Units: **wt%** Analysis Date: **6/29/2012 08:40 AM**

Client ID: Run ID: **BALANCE1_120629E** SeqNo: **2842866** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	2.953	0.010	0	0	0	0-0	3.27	10.2	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
WorkOrder: 1206925

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
wt%	

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **23-Jun-12 09:25**

Work Order: **1206925**

Received by: **RDH**

Checklist completed by Johanna B. Allen 22-Jun-12
eSignature Date

Reviewed by: Patricia L. Lynch 27-Jun-12
eSignature Date

Matrices: soil/water

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 3.6 C, 2.1 C/uc 2.3C U/C 003

Cooler(s)/Kit(s): 4246/4189

Date/Time sample(s) sent to storage: 6/23/12 16:51

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by: _____

Login Notes: Sample ID 1206925-1 thru -7 rec'd 06/21/12 @ 9:00; Sample ID 1206925-8 thru -14 rec'd 06/22/12@9:20 Sample ID 120692-15 thru -19 rec'd 06/23/12 @09:25

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments: _____

CorrectiveAction: _____



Cincinnati, OH
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+1 425 356 2600

Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

Page of
COC ID: 56115

Environmental

Customer Information

Purchase Order	Project Name	ALS Hwy 6 & Fed. Blvd Bridges Task 4	
Work Order	Project Number	A11-2359	
Company Name	Bill To Company	Olsson Associates	
Send Report To	Invoice Attn	James Hix	
Address	Address	4890 Table Mountain Drive Suite 200	
City/State/Zip	City/State/Zip	Golden, CO 80403	
Phone	Phone	(303) 237-2072	
Fax	Fax	(303) 237-2050	
e-Mail Address	e-Mail Address		

Project Information

VOC	A	Hold
GRO (8015M)	B	Hold
DRO (8015M)	C	Hold
Total Metals (8020/7000) RCRA 8 + Fe, Mn, Mo, U, Zn	D	Hold
PAHs (8270) Low-Level	E	Hold
Moisture	F	
Gross Alpha/Beta, Rad-226/228	G	Hold
	H	
	I	
	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MH-1 @ 20 ft	06/20/12	09:30	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
2	MH-1 @ 34 ft	06/20/12	10:00	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
3	MH-2 @ 20 ft	06/20/12	12:50	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
4	MH-2 @ 30 ft	06/20/12	13:15	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
5	MH-12 @ 16 ft	06/20/12	15:30	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
6	MH-12 @ 23 ft	06/20/12	15:45	Soil	ice	3	✓	✓	✓	✓	✓	✓	✓	✓			
7	TRP Blank																
8	Temperature Blank																
9																	
10																	

Sampler(s) Please Print & Sign: _____ Shipment Method: _____

Required Turnaround Time: (Check Box) 1-5 Bk Days 2-4 Bk Days 5-7 Bk Days Other: _____

Results Due Date: _____

Notes: 10 Day TAT

Received by: James Hix Date: 06/20/12 Time: 1734

Received by (Laboratory): James Hix Date: 06/20/12 Time: 1734

Checked by (Laboratory): James Hix Date: 06/20/12 Time: 1734

QC Package: (Check One Box Below) Level II Std. OC TRAP Check/US Level III Std. OC/Raw Data TRAP Level IV Level IV SW/RA/ICLP Other: FEED

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ORIGIN ID:
ALS LABOR
10450 STF
HOUSTON
UNITED

TO
A

If this portion can be removed for Recipient's records.

Date 06/20/12 FedEx Tracking Number 898754233763

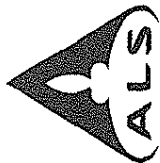
Order's Name James Hix Phone 303 237 2072

Company Olsson Associates

Address 4690 Table Mountain Dr 200

City Golden State CO Zip 80403

Our Internal Billing Reference A11-2359



ALS Laboratory Group

10450 Stanciff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

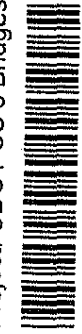
Chain of Custody Form

Page _____ of _____

1206925

OLSSON ASSOC - GOLDEN: Olsson Associates

Project: CDOT US 6 Bridges



ALS Project Manager:

Customer Information				Project Information												
Purchase Order	Project Name	Project Number	Project Manager	A	B	C	D									
Work Order	U.S. Hwy 6 & Federal Task 4	All-2359	VOL (020677) DIER	Hold	Hold	Hold	Hold									
Company Name	Bill To Company	Olsson Associates	Olsson Associates													
Send Report To	Invoice Attn	James Hix	James Hix													
Address	Address	4690 Table Mountain Dr Suite 200	4690 Table Mountain Dr Suite 200													
City/State/Zip	City/State/Zip	Golden, CO 80403	Golden, CO 80403													
Phone	Phone	303.237.2072	Same													
Fax	Fax	303.237.2659	Same													
e-Mail Address	e-Mail Address	jhix@oaconsulting.com	Same													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J
1	MH-3 @ 20 ft	06/21/12	09:20	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	MH-3 @ 24 ft	06/21/12	09:30	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	MH-4 @ 15 ft	06/21/12	11:35	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	MH-4 @ 20 ft	06/21/12	11:55	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	MH-5 @ 20 ft	06/21/12	14:05	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	MH-5 @ 30 ft	06/21/12	14:30	Soil	Ice	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	Trip Blank						✓									
8	Temp Blank															
9																
10																

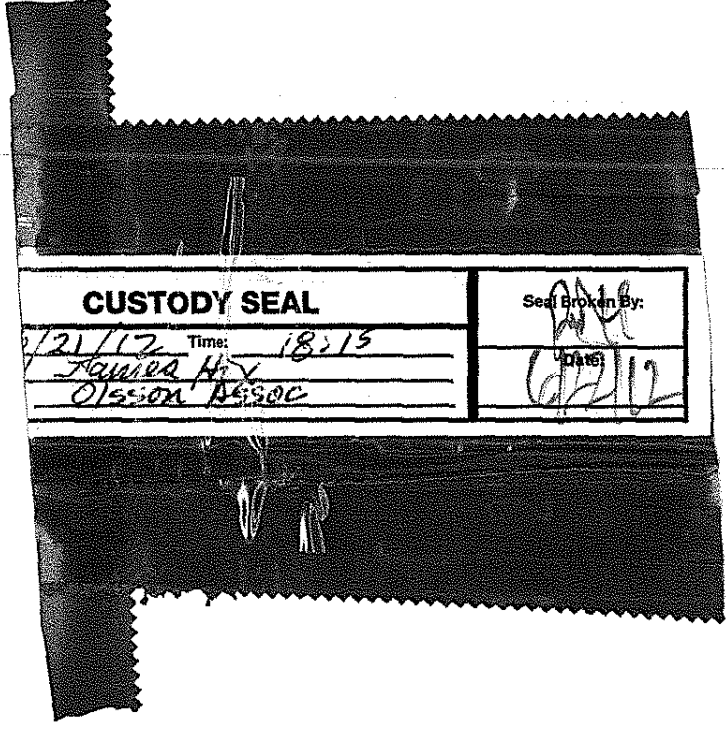
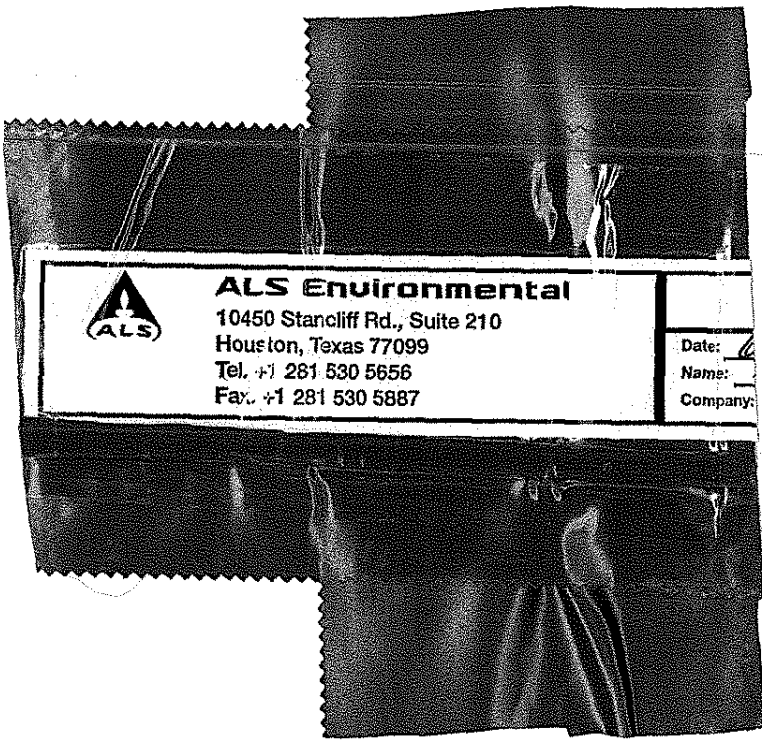
Level II Std OC
 Level III Std QC/Raw Date
 Level IV SW846/CLP
 Other _____

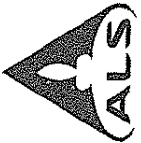
Shipper: **FedEx**
 Required Turnaround Time: (Check Box)
 Other _____
 2 Wk Days
 5 Wk Days
 24 Hour

Received by: *James Hix*
 Received by (Laboratory): *James Hix*
 Checked by (Laboratory): _____
 Date: 6/21/12
 Time: 18:15
 Date: _____
 Time: _____
 Date: _____
 Time: _____
 Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Date: 06/21/12
 FedEx Tracking Number: 898941672321
 Order's Name: James Hix
 Phone: 303 237 2072 / 303 589 1572
 Company: Olsson Associates
 Address: 4690 Table Mountain Dr. 200
 City: Golden State: CO ZIP: 80443
 Our Internal Billing Reference: A11-2359





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Holland, MI
+1 616 399 6070

Chain of Custody Form
Page of
COC ID: 56116

1206925
OLSSON ASSOC - GOLDEN; Olsson Associates
Project: CDOT US 6 Bridges

Environmental

ALS Project Manager:

Project Information

Purchase Order	Project Name	US Hwy 6 & Fed. Blvd Bridges Task 4
Work Order	Project Number	A11-2359
Company Name	Bill To Company	Olsson Associates
Send Report To	Invoice Attn	James Hix
Address	Address	4690 Table Mountain Drive Suite 200
City/State/Zip	City/State/Zip	Golden, CO 80403
Phone	Phone	(303) 237-2072
Fax	Fax	(303) 237-2059
e-Mail Address	e-Mail Address	

Customer Information

A	VOC (6260) BTEX
B	GFO (6015M)
C	DFO (6015M)
D	Total Metals (6020/7000) RCRA 8 + Fe, Mn, Mo, U, Zn
E	PAHs (8270) Low-Level
F	Moisture
G	Gross Alpha/Beta, Rad-226/226
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MH-6 @ 35 ft	6/22/12	09:30	Soil	ice	3	✓	H	H	✓	H	✓	H				
2	MH-7 @ 20 ft	6/22/12	11:55	Soil	ice	3	✓	H	H	✓	H	✓	H				
3	MH-7 @ 29 ft	6/22/12	12:25	Soil	ice	2	✓	H	H	✓	H	✓	H				
4	MH-8 @ 20 ft	6/22/12	14:30	Soil	ice	3	✓	H	H	✓	H	✓	H				
5	MH-8 @ 24 ft	6/22/12	14:44	Soil	ice	3	✓	H	H	✓	H	✓	H				
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: **James Hix**

Shipment Method: **FedEx**

Required Turnaround Time: (Check Box)
 5-7 MK Days
 5-7 MK Days
 10 Day TAT

Results Due Date: _____

Relinquished by: **James Hix** Date: **6/22/12** Time: **16:27**

Received by: **Federick** Date: _____ Time: _____

Checked by (Laboratory): _____

QC Packages: (Check One Box Below)
 Level II Std QC
 Level III Std QC
 Level IV SWM/SLP
 Other / ECD

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be maintained.

Recipient's records.
FedEx Tracking Number 899652668405

James Hix

Phone 303 237-2072

303 589-1572

Company Olsson Associates

Address 4690 Table Mountain Dr. 200
Dept./POB/Suite/Room

Golden State CO ZIP 80403

Our Internal Billing Reference A11-2359

1206925



ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date:
Name:
Company:

CUSTODY SEAL

Seal Broken By:

06/22/12 Time: 1630

James Hix
Olsson Assoc.

Date:
Signature



ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 06/22/12
Name:
Company:

CUSTODY SEAL

Seal Broken By:

22/12 Time: 1630

James Hix
Olsson Assoc.

Date:
Signature



FJ-Jul-2012

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: US Hwy 6 & Fed Blvd Bridges Task 4

Work Order: **12061234**

Dear James,

ALS Environmental received 8 samples on 27-Jun-2012 09:05 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Kelsey N. Brown

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Work Order: 12061234

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
12061234-01	MH-9 @ 15ft	Soil		6/25/2012 09:38	6/27/2012 09:05	<input type="checkbox"/>
12061234-02	MH-9 @ 24ft	Soil		6/25/2012 09:53	6/27/2012 09:05	<input type="checkbox"/>
12061234-03	MH-11 @ 20ft	Soil		6/25/2012 11:50	6/27/2012 09:05	<input type="checkbox"/>
12061234-04	MH-11 @ 30ft	Soil		6/25/2012 12:15	6/27/2012 09:05	<input type="checkbox"/>
12061234-05	MH-11 @ 39ft	Soil		6/25/2012 12:45	6/27/2012 09:05	<input type="checkbox"/>
12061234-06	MH-10 @ 29ft	Soil		6/25/2012 15:23	6/27/2012 09:05	<input type="checkbox"/>
12061234-07	MH-10 @ 34ft	Soil		6/25/2012 15:53	6/27/2012 09:05	<input type="checkbox"/>
12061234-08	Trip Blank	Water		6/25/2012	6/27/2012 09:05	<input type="checkbox"/>

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Work Order: 12061234

Case Narrative

Batch 62368, Metals, Sample 1206984: MS/MSD recoveries and RPDs and duplicate RPD are for an unrelated sample.

Batch R 130335, BTEX: MSD recoveries in sample MH-10 @ 34ft are above the control limits. However, the associated MS and LCS recoveries and the MS/MSD RPDs are in control.

Batch 62245, DRO: The MS/MSD recoveries were low in sample MW-11 @ 30ft due to the sample matrix. The results are flagged with E based on the high concentration in the background sample.

Batch R130575, BTEX, Sample 12061229-07Z: MSD recovery is for an unrelated sample.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-9 @ 15ft
Collection Date: 6/25/2012 09:38 AM

Work Order: 12061234
Lab ID: 12061234-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	5.20		3.51	µg/Kg	1	7/2/2012	7/2/2012 02:51 PM
METALS			SW6020				Analyst: SKS
Arsenic	1.63		0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
Barium	183		4.49	mg/Kg	10	7/4/2012	7/6/2012 01:23 PM
Cadmium	0.101	J	0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
Chromium	6.86		0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
Lead	8.98		0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
Selenium	0.221	J	0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
Silver	0.0770	J	0.449	mg/Kg	1	7/4/2012	7/5/2012 03:21 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 11:35 AM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 11:35 AM
Toluene	U		5.0	µg/Kg	1		6/29/2012 11:35 AM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 11:35 AM
Surr: 1,2-Dichloroethane-d4	89.2		70-128	%REC	1		6/29/2012 11:35 AM
Surr: 4-Bromofluorobenzene	102		73-126	%REC	1		6/29/2012 11:35 AM
Surr: Dibromofluoromethane	91.0		71-128	%REC	1		6/29/2012 11:35 AM
Surr: Toluene-d8	104		73-127	%REC	1		6/29/2012 11:35 AM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	23.6		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-9 @ 24ft
Collection Date: 6/25/2012 09:53 AM

Work Order: 12061234
Lab ID: 12061234-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	3.88		3.39	µg/Kg	1	7/2/2012	7/2/2012 02:53 PM
METALS			SW6020				Analyst: SKS
Arsenic	1.31		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Barium	159		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Cadmium	0.0917	J	0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Chromium	7.98		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Lead	6.86		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Selenium	0.482		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
Silver	U		0.468	mg/Kg	1	7/4/2012	7/5/2012 03:24 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 12:05 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 12:05 PM
Toluene	6.5		5.0	µg/Kg	1		6/29/2012 12:05 PM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 12:05 PM
Surr: 1,2-Dichloroethane-d4	86.2		70-128	%REC	1		6/29/2012 12:05 PM
Surr: 4-Bromofluorobenzene	97.0		73-126	%REC	1		6/29/2012 12:05 PM
Surr: Dibromofluoromethane	93.0		71-128	%REC	1		6/29/2012 12:05 PM
Surr: Toluene-d8	99.4		73-127	%REC	1		6/29/2012 12:05 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	24.6		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-11 @ 20ft
Collection Date: 6/25/2012 11:50 AM

Work Order: 12061234
Lab ID: 12061234-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015M				Analyst: KMB
DRO (>C10 - C28)	U		1.7	mg/Kg	1	6/29/2012	7/2/2012 01:47 PM
Surr: 2-Fluorobiphenyl	65.0		60-135	%REC	1	6/29/2012	7/2/2012 01:47 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	0.41		0.050	mg/Kg	1		7/2/2012 10:57 PM
Surr: 4-Bromofluorobenzene	90.0		70-130	%REC	1		7/2/2012 10:57 PM
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	4.33		3.43	µg/Kg	1	7/2/2012	7/2/2012 02:55 PM
METALS			SW6020				Analyst: SKS
Arsenic	2.16		0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Barium	118		0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Cadmium	0.159	J	0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Chromium	6.99		0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Lead	9.86		0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Selenium	0.324	J	0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
Silver	U		0.467	mg/Kg	1	7/4/2012	7/5/2012 04:31 PM
LOW-LEVEL PAHS			SW8270				Analyst: ACN
Acenaphthene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Anthracene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Benz(a)anthracene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Benzo(a)pyrene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Benzo(b)fluoranthene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Benzo(k)fluoranthene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Chrysene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Dibenz(a,h)anthracene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Fluoranthene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Fluorene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Indeno(1,2,3-cd)pyrene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Naphthalene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Pyrene	U		6.6	µg/Kg	1	6/29/2012	6/29/2012 09:52 PM
Surr: 2-Fluorobiphenyl	72.5		43-125	%REC	1	6/29/2012	6/29/2012 09:52 PM
Surr: 4-Terphenyl-d14	92.5		32-125	%REC	1	6/29/2012	6/29/2012 09:52 PM
Surr: Nitrobenzene-d5	54.4		37-125	%REC	1	6/29/2012	6/29/2012 09:52 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 12:38 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 12:38 PM
Toluene	11		5.0	µg/Kg	1		6/29/2012 12:38 PM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 12:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-11 @ 20ft
Collection Date: 6/25/2012 11:50 AM

Work Order: 12061234
Lab ID: 12061234-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
Surr: 1,2-Dichloroethane-d4	85.8		70-128	%REC	1		6/29/2012 12:38 PM
Surr: 4-Bromofluorobenzene	99.7		73-126	%REC	1		6/29/2012 12:38 PM
Surr: Dibromofluoromethane	98.9		71-128	%REC	1		6/29/2012 12:38 PM
Surr: Toluene-d8	101		73-127	%REC	1		6/29/2012 12:38 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	14.8		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-11 @ 30ft
Collection Date: 6/25/2012 12:15 PM

Work Order: 12061234
Lab ID: 12061234-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015M				Analyst: KMB
DRO (>C10 - C28)	87		8.5 mg/Kg		5	6/29/2012	7/2/2012 07:08 PM
<i>Surr: 2-Fluorobiphenyl</i>	89.9		60-135 %REC		5	6/29/2012	7/2/2012 07:08 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	55		5.0 mg/Kg		100		7/4/2012 06:09 PM
<i>Surr: 4-Bromofluorobenzene</i>	107		70-130 %REC		100		7/4/2012 06:09 PM
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	5.44		3.48 µg/Kg		1	7/2/2012	7/2/2012 02:57 PM
METALS			SW6020				Analyst: SKS
Arsenic	1.68		0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
Barium	223		4.46 mg/Kg		10	7/4/2012	7/6/2012 01:31 PM
Cadmium	0.183	J	0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
Chromium	7.65		0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
Lead	8.48		0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
Selenium	0.541		0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
Silver	0.159	J	0.446 mg/Kg		1	7/4/2012	7/5/2012 04:39 PM
LOW-LEVEL PAHS			SW8270				Analyst: ACN
Acenaphthene	12		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Anthracene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Benz(a)anthracene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Benzo(a)pyrene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Benzo(b)fluoranthene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Benzo(k)fluoranthene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Chrysene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Dibenz(a,h)anthracene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Fluoranthene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Fluorene	9.0		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Indeno(1,2,3-cd)pyrene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
Naphthalene	2,500		66 µg/Kg		10	6/29/2012	7/3/2012 04:45 PM
Pyrene	U		6.6 µg/Kg		1	6/29/2012	7/3/2012 04:24 PM
<i>Surr: 2-Fluorobiphenyl</i>	82.8		43-125 %REC		1	6/29/2012	7/3/2012 04:24 PM
<i>Surr: 2-Fluorobiphenyl</i>	111		43-125 %REC		10	6/29/2012	7/3/2012 04:45 PM
<i>Surr: 4-Terphenyl-d14</i>	84.1		32-125 %REC		10	6/29/2012	7/3/2012 04:45 PM
<i>Surr: 4-Terphenyl-d14</i>	79.6		32-125 %REC		1	6/29/2012	7/3/2012 04:24 PM
<i>Surr: Nitrobenzene-d5</i>	102		37-125 %REC		10	6/29/2012	7/3/2012 04:45 PM
<i>Surr: Nitrobenzene-d5</i>	88.0		37-125 %REC		1	6/29/2012	7/3/2012 04:24 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	1,700		50 µg/Kg		10		6/29/2012 02:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-11 @ 30ft
Collection Date: 6/25/2012 12:15 PM

Work Order: 12061234
Lab ID: 12061234-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
Ethylbenzene	1,900		50	µg/Kg	10		6/29/2012 02:44 PM
Toluene	340		50	µg/Kg	10		6/29/2012 02:44 PM
Xylenes, Total	1,900		1,500	µg/Kg	100		7/3/2012 01:04 AM
Surr: 1,2-Dichloroethane-d4	96.7		70-128	%REC	100		7/3/2012 01:04 AM
Surr: 1,2-Dichloroethane-d4	105		70-128	%REC	10		6/29/2012 02:44 PM
Surr: 4-Bromofluorobenzene	101		73-126	%REC	100		7/3/2012 01:04 AM
Surr: 4-Bromofluorobenzene	113		73-126	%REC	10		6/29/2012 02:44 PM
Surr: Dibromofluoromethane	99.7		71-128	%REC	10		6/29/2012 02:44 PM
Surr: Dibromofluoromethane	101		71-128	%REC	100		7/3/2012 01:04 AM
Surr: Toluene-d8	103		73-127	%REC	10		6/29/2012 02:44 PM
Surr: Toluene-d8	98.1		73-127	%REC	100		7/3/2012 01:04 AM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	29.6		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-11 @ 39ft
Collection Date: 6/25/2012 12:45 PM

Work Order: 12061234
Lab ID: 12061234-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	3.97		3.41	µg/Kg	1	7/2/2012	7/2/2012 02:59 PM
METALS			SW6020				Analyst: SKS
Arsenic	1.31		0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Barium	75.8		0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Cadmium	0.102	J	0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Chromium	6.28		0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Lead	7.54		0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Selenium	0.244	J	0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
Silver	U		0.468	mg/Kg	1	7/4/2012	7/5/2012 04:42 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 01:09 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 01:09 PM
Toluene	3.9	J	5.0	µg/Kg	1		6/29/2012 01:09 PM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 01:09 PM
Surr: 1,2-Dichloroethane-d4	86.2		70-128	%REC	1		6/29/2012 01:09 PM
Surr: 4-Bromofluorobenzene	99.4		73-126	%REC	1		6/29/2012 01:09 PM
Surr: Dibromofluoromethane	94.9		71-128	%REC	1		6/29/2012 01:09 PM
Surr: Toluene-d8	98.9		73-127	%REC	1		6/29/2012 01:09 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	24.6		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-10 @ 29ft
Collection Date: 6/25/2012 03:23 PM

Work Order: 12061234
Lab ID: 12061234-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	5.40		3.54	µg/Kg	1	7/2/2012	7/2/2012 03:01 PM
METALS			SW6020				Analyst: SKS
Arsenic	2.68		0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
Barium	168		4.62	mg/Kg	10	7/4/2012	7/6/2012 01:36 PM
Cadmium	0.437	J	0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
Chromium	8.35		0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
Lead	10.4		0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
Selenium	0.318	J	0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
Silver	U		0.462	mg/Kg	1	7/4/2012	7/5/2012 04:44 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 01:42 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 01:42 PM
Toluene	2.2	J	5.0	µg/Kg	1		6/29/2012 01:42 PM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 01:42 PM
Surr: 1,2-Dichloroethane-d4	87.1		70-128	%REC	1		6/29/2012 01:42 PM
Surr: 4-Bromofluorobenzene	97.7		73-126	%REC	1		6/29/2012 01:42 PM
Surr: Dibromofluoromethane	94.9		71-128	%REC	1		6/29/2012 01:42 PM
Surr: Toluene-d8	98.6		73-127	%REC	1		6/29/2012 01:42 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	27.8		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
Sample ID: MH-10 @ 34ft
Collection Date: 6/25/2012 03:53 PM

Work Order: 12061234
Lab ID: 12061234-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
MERCURY - SW7471B			SW7471A				Analyst: JCJ
Mercury	4.12		3.54	µg/Kg	1	7/2/2012	7/2/2012 02:32 PM
METALS			SW6020				Analyst: SKS
Arsenic	1.71		0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
Barium	193		4.41	mg/Kg	10	7/4/2012	7/6/2012 01:38 PM
Cadmium	0.179	J	0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
Chromium	8.19		0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
Lead	10.4		0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
Selenium	0.233	J	0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
Silver	0.0957	J	0.441	mg/Kg	1	7/4/2012	7/5/2012 04:47 PM
VOLATILES			SW8260				Analyst: WLR
Benzene	U		5.0	µg/Kg	1		6/29/2012 02:13 PM
Ethylbenzene	U		5.0	µg/Kg	1		6/29/2012 02:13 PM
Toluene	4.4	J	5.0	µg/Kg	1		6/29/2012 02:13 PM
Xylenes, Total	U		15	µg/Kg	1		6/29/2012 02:13 PM
Surr: 1,2-Dichloroethane-d4	88.3		70-128	%REC	1		6/29/2012 02:13 PM
Surr: 4-Bromofluorobenzene	100		73-126	%REC	1		6/29/2012 02:13 PM
Surr: Dibromofluoromethane	92.8		71-128	%REC	1		6/29/2012 02:13 PM
Surr: Toluene-d8	100		73-127	%REC	1		6/29/2012 02:13 PM
MOISTURE			SW3550				Analyst: KAH
Percent Moisture	25.6		0.0100	wt%	1		7/2/2012 03:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates

Project: US Hwy 6 & Fed Blvd Bridges Task 4

Sample ID: Trip Blank

Collection Date: 6/25/2012

Work Order: 12061234

Lab ID: 12061234-08

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1		7/5/2012 10:50 AM
Ethylbenzene	U		5.0	µg/L	1		7/5/2012 10:50 AM
Toluene	U		5.0	µg/L	1		7/5/2012 10:50 AM
Xylenes, Total	U		15	µg/L	1		7/5/2012 10:50 AM
Surr: 1,2-Dichloroethane-d4	100		70-125	%REC	1		7/5/2012 10:50 AM
Surr: 4-Bromofluorobenzene	97.6		72-125	%REC	1		7/5/2012 10:50 AM
Surr: Dibromofluoromethane	97.7		71-125	%REC	1		7/5/2012 10:50 AM
Surr: Toluene-d8	98.4		75-125	%REC	1		7/5/2012 10:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: Olsson Associates
Work Order: 12061234
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62245** Instrument ID **FID-8** Method: **SW8015M**

MBLK	Sample ID: FBLKS1-120629-62245			Units: mg/Kg			Analysis Date: 7/2/2012 01:47 PM			
Client ID:	Run ID: FID-8_120702A			SeqNo: 2843262			Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	U	1.7								
<i>Surr: 2-Fluorobiphenyl</i>	3.126	0	3.3	0	94.7	60-135	0			

LCS	Sample ID: FLCSS1-120629-62245			Units: mg/Kg			Analysis Date: 7/2/2012 02:09 PM			
Client ID:	Run ID: FID-8_120702A			SeqNo: 2843263			Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	37.42	1.7	33.3	0	112	70-130	0			
<i>Surr: 2-Fluorobiphenyl</i>	3.358	0	3.3	0	102	60-135	0			

MS	Sample ID: 12061234-04CMS			Units: mg/Kg			Analysis Date: 7/2/2012 02:30 PM			
Client ID: MH-11 @ 30ft	Run ID: FID-8_120702A			SeqNo: 2843265			Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	87.73	1.7	32.86	91.76	-12.3	70-130	0			SE
<i>Surr: 2-Fluorobiphenyl</i>	3.156	0	3.256	0	96.9	60-135	0			

MSD	Sample ID: 12061234-04CMSD			Units: mg/Kg			Analysis Date: 7/2/2012 02:09 PM			
Client ID: MH-11 @ 30ft	Run ID: FID-8_120702A			SeqNo: 2843254			Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	104.3	1.7	32.86	91.76	38.1	70-130	87.73	17.2	30	SE
<i>Surr: 2-Fluorobiphenyl</i>	2.406	0	3.256	0	73.9	60-135	3.156	27	30	

The following samples were analyzed in this batch:

12061234-03C	12061234-04C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130484 Instrument ID FID-9 Method: SW8015

MBLK		Sample ID: GBLKS1-120702-R130484			Units: mg/Kg			Analysis Date: 7/2/2012 09:10 PM		
Client ID:		Run ID: FID-9_120702B			SeqNo: 2843784			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	0.07665	0.0050	0.1	0	76.6	70-130	0			

LCS		Sample ID: GLCSS1-120702-R130484			Units: mg/Kg			Analysis Date: 7/2/2012 08:35 PM		
Client ID:		Run ID: FID-9_120702B			SeqNo: 2843782			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9753	0.050	1	0	97.5	70-130	0			
Surr: 4-Bromofluorobenzene	0.0886	0.0050	0.1	0	88.6	70-130	0			

LCSD		Sample ID: GLCSDS1-120702-R130484			Units: mg/Kg			Analysis Date: 7/2/2012 08:53 PM		
Client ID:		Run ID: FID-9_120702B			SeqNo: 2843783			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9798	0.050	1	0	98	70-130	0.9753	0.462	30	
Surr: 4-Bromofluorobenzene	0.09147	0.0050	0.1	0	91.5	70-130	0.0886	3.19	30	

MS		Sample ID: 12061499-11ZMS			Units: mg/Kg			Analysis Date: 7/2/2012 10:04 PM		
Client ID:		Run ID: FID-9_120702B			SeqNo: 2843786			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9073	0.050	1	0	90.7	70-130	0			
Surr: 4-Bromofluorobenzene	0.08662	0.0050	0.1	0	86.6	70-130	0			

MSD		Sample ID: 12061499-11ZMSD			Units: mg/Kg			Analysis Date: 7/2/2012 10:22 PM		
Client ID:		Run ID: FID-9_120702B			SeqNo: 2843787			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.006	0.050	1	0	101	70-130	0.9073	10.3	30	
Surr: 4-Bromofluorobenzene	0.08936	0.0050	0.1	0	89.4	70-130	0.08662	3.11	30	

The following samples were analyzed in this batch:

12061234-03A	12061234-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130592 Instrument ID FID-9 Method: SW8015

MBLK		Sample ID: GBLKW1-120704-R130592			Units: mg/Kg			Analysis Date: 7/4/2012 04:58 PM		
Client ID:		Run ID: FID-9_120704B			SeqNo: 2846299			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	0.09355	0.0050	0.1	0	93.6	70-130	0			

LCS		Sample ID: GLCSW1-120704-R130592			Units: mg/L			Analysis Date: 7/4/2012 04:05 PM		
Client ID:		Run ID: FID-9_120704B			SeqNo: 2846297			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.131	0.050	1	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	0.116	0.0050	0.1	0	116	70-130	0			

LCSD		Sample ID: GLCSDW1-120704-R130592			Units: mg/L			Analysis Date: 7/4/2012 04:23 PM		
Client ID:		Run ID: FID-9_120704B			SeqNo: 2846298			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.056	0.050	1	0	106	70-130	1.131	6.87	30	
Surr: 4-Bromofluorobenzene	0.1127	0.0050	0.1	0	113	70-130	0.116	2.92	30	

MS		Sample ID: 12061280-01ZMS			Units: mg/Kg			Analysis Date: 7/4/2012 05:34 PM		
Client ID:		Run ID: FID-9_120704B			SeqNo: 2846301			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.638	0.050	1	0.5894	105	70-130	0			
Surr: 4-Bromofluorobenzene	0.09035	0.0050	0.1	0	90.3	70-130	0			

MSD		Sample ID: 12061280-01ZMSD			Units: mg/Kg			Analysis Date: 7/4/2012 05:52 PM		
Client ID:		Run ID: FID-9_120704B			SeqNo: 2846302			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.648	0.050	1	0.5894	106	70-130	1.638	0.613	30	
Surr: 4-Bromofluorobenzene	0.08546	0.0050	0.1	0	85.5	70-130	0.09035	5.55	30	

The following samples were analyzed in this batch:

12061234-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62289** Instrument ID **HG02** Method: **SW7471A**

MBLK		Sample ID: GBLKS1-070212-62289				Units: µg/Kg		Analysis Date: 7/2/2012 02:24 PM		
Client ID:		Run ID: HG02_120702A				SeqNo: 2843013		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	3.3								

LCS		Sample ID: GLCSS1-070212-62289				Units: µg/Kg		Analysis Date: 7/2/2012 02:26 PM		
Client ID:		Run ID: HG02_120702A				SeqNo: 2843014		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	334.7	3.3	333.3	0	100	85-115	0			

MS		Sample ID: 12061234-07BMS				Units: µg/Kg		Analysis Date: 7/2/2012 02:38 PM		
Client ID: MH-10 @ 34ft		Run ID: HG02_120702A				SeqNo: 2843017		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	327.8	3.5	350.3	4.121	92.4	85-115	0			

MSD		Sample ID: 12061234-07BMSD				Units: µg/Kg		Analysis Date: 7/2/2012 02:40 PM		
Client ID: MH-10 @ 34ft		Run ID: HG02_120702A				SeqNo: 2843018		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	333.6	3.5	349.6	4.121	94.2	85-115	327.8	1.73	20	

DUP		Sample ID: 12061234-07BDUP				Units: µg/Kg		Analysis Date: 7/2/2012 02:34 PM		
Client ID: MH-10 @ 34ft		Run ID: HG02_120702A				SeqNo: 2843016		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.177	3.5	0	0	0		4.121	1.35	20	

The following samples were analyzed in this batch:

12061234-01B	12061234-02B	12061234-03B
12061234-04B	12061234-05B	12061234-06B
12061234-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62368** Instrument ID **ICPMS05** Method: **SW6020**

MBLK Sample ID: **MBLKS1-070412-62368** Units: **mg/Kg** Analysis Date: **7/5/2012 03:37 PM**

Client ID: Run ID: **ICPMS05_120705A** SeqNo: **2846704** Prep Date: **7/4/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.50								
Barium	U	0.50								
Cadmium	U	0.50								
Chromium	U	0.50								
Lead	U	0.50								
Selenium	U	0.50								
Silver	U	0.50								

LCS Sample ID: **MLCSS1-070412-62368** Units: **mg/Kg** Analysis Date: **7/5/2012 02:40 PM**

Client ID: Run ID: **ICPMS05_120705A** SeqNo: **2846443** Prep Date: **7/4/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.509	0.50	10	0	85.1	80-120	0			
Barium	10.32	0.50	10	0	103	80-120	0			
Cadmium	9.899	0.50	10	0	99	80-120	0			
Chromium	8.364	0.50	10	0	83.6	80-120	0			
Lead	9.862	0.50	10	0	98.6	80-120	0			
Silver	8.721	0.50	10	0	87.2	80-120	0			

LCS Sample ID: **MLCSS1-070412-62368** Units: **mg/Kg** Analysis Date: **7/6/2012 01:03 PM**

Client ID: Run ID: **ICPMS05_120706A** SeqNo: **2848295** Prep Date: **7/4/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	10.16	0.50	10	0	102	80-120	0			

MS Sample ID: **1206984-01BMS** Units: **mg/Kg** Analysis Date: **7/5/2012 03:00 PM**

Client ID: Run ID: **ICPMS05_120705A** SeqNo: **2846451** Prep Date: **7/4/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.28	0.44	8.778	2.923	95.2	75-125	0			
Barium	212.3	0.44	8.778	125.8	985	75-125	0			SEO
Cadmium	8.707	0.44	8.778	0.04709	98.6	75-125	0			
Chromium	16.37	0.44	8.778	6.583	111	75-125	0			
Lead	15.56	0.44	8.778	7.643	90.1	75-125	0			
Silver	8.123	0.44	8.778	0.02574	92.2	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62368** Instrument ID **ICPMS05** Method: **SW6020**

MS		Sample ID: 1206984-01BMS			Units: mg/Kg			Analysis Date: 7/5/2012 04:21 PM		
Client ID:		Run ID: ICPMS05_120705A			SeqNo: 2846729			Prep Date: 7/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	7.797	0.44	8.778	0.2796	85.6	75-125		0		

MSD		Sample ID: 1206984-01BMSD			Units: mg/Kg			Analysis Date: 7/5/2012 03:03 PM		
Client ID:		Run ID: ICPMS05_120705A			SeqNo: 2846452			Prep Date: 7/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.87	0.44	8.74	2.923	114	75-125	11.28	13.2	25	
Barium	326	0.44	8.74	125.8	2290	75-125	212.3	42.3	25	SREO
Cadmium	8.697	0.44	8.74	0.04709	99	75-125	8.707	0.106	25	
Chromium	15.92	0.44	8.74	6.583	107	75-125	16.37	2.77	25	
Lead	24.3	0.44	8.74	7.643	191	75-125	15.56	43.9	25	SR
Silver	7.728	0.44	8.74	0.02574	88.1	75-125	8.123	4.99	25	

MSD		Sample ID: 1206984-01BMSD			Units: mg/Kg			Analysis Date: 7/5/2012 04:24 PM		
Client ID:		Run ID: ICPMS05_120705A			SeqNo: 2846731			Prep Date: 7/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	7.693	0.44	8.74	0.2796	84.8	75-125	7.797	1.33	25	

DUP		Sample ID: 1206984-01BDUP			Units: mg/Kg			Analysis Date: 7/5/2012 02:52 PM		
Client ID:		Run ID: ICPMS05_120705A			SeqNo: 2846448			Prep Date: 7/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	2.443	0.45	0	0	0	0-0	2.923	17.9	25	
Barium	126	0.45	0	0	0	0-0	125.8	0.13	25	
Cadmium	U	0.45	0	0	0	0-0	0.04709	0	25	
Chromium	6.479	0.45	0	0	0	0-0	6.583	1.6	25	
Lead	5.406	0.45	0	0	0	0-0	7.643	34.3	25	R
Silver	U	0.45	0	0	0	0-0	0.02574	0	25	

DUP		Sample ID: 1206984-01BDUP			Units: mg/Kg			Analysis Date: 7/5/2012 04:19 PM		
Client ID:		Run ID: ICPMS05_120705A			SeqNo: 2846727			Prep Date: 7/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.1766	0.45	0	0	0	0-0	0.2796	0	25	J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 12061234
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62368** Instrument ID **ICPMS05** Method: **SW6020**

The following samples were analyzed in this batch:

12061234-01B	12061234-02B	12061234-03B
12061234-04B	12061234-05B	12061234-06B
12061234-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62244** Instrument ID **SV-2** Method: **SW8270**

MBLK		Sample ID: SBLKS1-120629-62244				Units: µg/Kg		Analysis Date: 6/29/2012 08:08 PM			
Client ID:		Run ID: SV-2_120629A				SeqNo: 2842022		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	U	6.6									
Anthracene	U	6.6									
Benz(a)anthracene	U	6.6									
Benzo(a)pyrene	U	6.6									
Benzo(b)fluoranthene	U	6.6									
Benzo(k)fluoranthene	U	6.6									
Chrysene	U	6.6									
Dibenz(a,h)anthracene	U	6.6									
Fluoranthene	U	6.6									
Fluorene	U	6.6									
Indeno(1,2,3-cd)pyrene	U	6.6									
Naphthalene	U	6.6									
Pyrene	U	6.6									
<i>Surr: 2-Fluorobiphenyl</i>	110.6	6.6	166.7	0	66.4	43-125	0				
<i>Surr: 4-Terphenyl-d14</i>	140.5	6.6	166.7	0	84.3	32-125	0				
<i>Surr: Nitrobenzene-d5</i>	94.72	6.6	166.7	0	56.8	37-125	0				

LCS		Sample ID: SLCSS1-120629-62244				Units: µg/Kg		Analysis Date: 6/29/2012 08:29 PM			
Client ID:		Run ID: SV-2_120629A				SeqNo: 2842023		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	106.6	6.6	166.7	0	63.9	50-120	0				
Anthracene	101.3	6.6	166.7	0	60.8	50-123	0				
Benz(a)anthracene	104.3	6.6	166.7	0	62.6	50-131	0				
Benzo(a)pyrene	110.3	6.6	166.7	0	66.2	50-130	0				
Benzo(b)fluoranthene	108.1	6.6	166.7	0	64.9	50-137	0				
Benzo(k)fluoranthene	126	6.6	166.7	0	75.6	50-143	0				
Chrysene	136.3	6.6	166.7	0	81.8	50-130	0				
Dibenz(a,h)anthracene	128.4	6.6	166.7	0	77	50-130	0				
Fluoranthene	105.4	6.6	166.7	0	63.2	50-131	0				
Fluorene	116.2	6.6	166.7	0	69.7	50-125	0				
Indeno(1,2,3-cd)pyrene	111.3	6.6	166.7	0	66.8	45-139	0				
Naphthalene	109.8	6.6	166.7	0	65.9	50-125	0				
Pyrene	108.6	6.6	166.7	0	65.1	45-130	0				
<i>Surr: 2-Fluorobiphenyl</i>	105.7	6.6	166.7	0	63.4	43-125	0				
<i>Surr: 4-Terphenyl-d14</i>	120.1	6.6	166.7	0	72.1	32-125	0				
<i>Surr: Nitrobenzene-d5</i>	90.79	6.6	166.7	0	54.5	37-125	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62244** Instrument ID **SV-2** Method: **SW8270**

MS				Sample ID: 12061234-03CMS			Units: µg/Kg		Analysis Date: 6/29/2012 10:12 PM		
Client ID: MH-11 @ 20ft				Run ID: SV-2_120629A			SeqNo: 2842025		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	89.22	6.6	166.2	0	53.7	50-120	0				
Anthracene	109.7	6.6	166.2	0	66	50-123	0				
Benz(a)anthracene	110	6.6	166.2	0	66.2	50-131	0				
Benzo(a)pyrene	124.6	6.6	166.2	0	75	50-130	0				
Benzo(b)fluoranthene	118.5	6.6	166.2	0	71.3	50-137	0				
Benzo(k)fluoranthene	158.4	6.6	166.2	0	95.3	50-143	0				
Chrysene	120.5	6.6	166.2	0	72.5	50-130	0				
Dibenz(a,h)anthracene	127.1	6.6	166.2	0	76.5	50-130	0				
Fluoranthene	121.2	6.6	166.2	0	72.9	50-131	0				
Fluorene	100.2	6.6	166.2	0	60.3	50-125	0				
Indeno(1,2,3-cd)pyrene	107.8	6.6	166.2	0	64.9	45-139	0				
Naphthalene	96.46	6.6	166.2	0	58	50-125	0				
Pyrene	102	6.6	166.2	0	61.4	45-130	0				
<i>Surr: 2-Fluorobiphenyl</i>	115.2	6.6	166.2	0	69.3	43-125	0				
<i>Surr: 4-Terphenyl-d14</i>	126.9	6.6	166.2	0	76.4	32-125	0				
<i>Surr: Nitrobenzene-d5</i>	85.78	6.6	166.2	0	51.6	37-125	0				

MSD				Sample ID: 12061234-03CMSD			Units: µg/Kg		Analysis Date: 6/29/2012 10:33 PM		
Client ID: MH-11 @ 20ft				Run ID: SV-2_120629A			SeqNo: 2842026		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	94.78	6.6	166.2	0	57	50-120	89.22	6.04	30		
Anthracene	128.4	6.6	166.2	0	77.3	50-123	109.7	15.7	30		
Benz(a)anthracene	119.3	6.6	166.2	0	71.8	50-131	110	8.07	30		
Benzo(a)pyrene	119.8	6.6	166.2	0	72.1	50-130	124.6	3.86	30		
Benzo(b)fluoranthene	111.7	6.6	166.2	0	67.2	50-137	118.5	5.92	30		
Benzo(k)fluoranthene	137.1	6.6	166.2	0	82.5	50-143	158.4	14.4	30		
Chrysene	137.1	6.6	166.2	0	82.5	50-130	120.5	12.9	30		
Dibenz(a,h)anthracene	132.4	6.6	166.2	0	79.7	50-130	127.1	4.11	30		
Fluoranthene	134.4	6.6	166.2	0	80.9	50-131	121.2	10.4	30		
Fluorene	118.6	6.6	166.2	0	71.4	50-125	100.2	16.8	30		
Indeno(1,2,3-cd)pyrene	104.3	6.6	166.2	0	62.7	45-139	107.8	3.3	30		
Naphthalene	101.3	6.6	166.2	0	61	50-125	96.46	4.88	30		
Pyrene	113.7	6.6	166.2	0	68.4	45-130	102	10.8	30		
<i>Surr: 2-Fluorobiphenyl</i>	102	6.6	166.2	0	61.4	43-125	115.2	12.1	30		
<i>Surr: 4-Terphenyl-d14</i>	130	6.6	166.2	0	78.3	32-125	126.9	2.47	30		
<i>Surr: Nitrobenzene-d5</i>	93.45	6.6	166.2	0	56.2	37-125	85.78	8.57	30		

The following samples were analyzed in this batch:

12061234-03C	12061234-04C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130335 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS1-062912-R130335			Units: µg/Kg			Analysis Date: 6/29/2012 11:04 AM		
Client ID:		Run ID: VOA3_120629A			SeqNo: 2839901		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	41.71	0	50	0	83.4	70-128	0			
Surr: 4-Bromofluorobenzene	49.51	0	50	0	99	73-126	0			
Surr: Dibromofluoromethane	45.03	0	50	0	90.1	71-128	0			
Surr: Toluene-d8	50.36	0	50	0	101	73-127	0			

LCS		Sample ID: VLCSS1-062912-R130335			Units: µg/Kg			Analysis Date: 6/29/2012 08:50 AM		
Client ID:		Run ID: VOA3_120629A			SeqNo: 2839896		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.54	5.0	50	0	109	79-120	0			
Ethylbenzene	56.39	5.0	50	0	113	80-122	0			
Toluene	57.13	5.0	50	0	114	79-120	0			
Xylenes, Total	168.8	15	150	0	113	80-120	0			
Surr: 1,2-Dichloroethane-d4	44.47	0	50	0	88.9	70-128	0			
Surr: 4-Bromofluorobenzene	52.51	0	50	0	105	73-126	0			
Surr: Dibromofluoromethane	47.9	0	50	0	95.8	71-128	0			
Surr: Toluene-d8	52.83	0	50	0	106	73-127	0			

LCSD		Sample ID: VLCSDS1-062912-R130335			Units: µg/Kg			Analysis Date: 6/29/2012 09:18 AM		
Client ID:		Run ID: VOA3_120629A			SeqNo: 2839899		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.43	5.0	50	0	103	79-120	54.54	5.88	30	
Ethylbenzene	53.6	5.0	50	0	107	80-122	56.39	5.08	30	
Toluene	53.35	5.0	50	0	107	79-120	57.13	6.84	30	
Xylenes, Total	160.3	15	150	0	107	80-120	168.8	5.17	30	
Surr: 1,2-Dichloroethane-d4	45.61	0	50	0	91.2	70-128	44.47	2.53	30	
Surr: 4-Bromofluorobenzene	52.91	0	50	0	106	73-126	52.51	0.763	30	
Surr: Dibromofluoromethane	48.08	0	50	0	96.2	71-128	47.9	0.367	30	
Surr: Toluene-d8	53.1	0	50	0	106	73-127	52.83	0.507	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130335 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 12061234-07AMS			Units: µg/Kg			Analysis Date: 6/29/2012 03:27 PM		
Client ID: MH-10 @ 34ft		Run ID: VOA3_120629A			SeqNo: 2840752			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.43	5.0	50	0	113	79-120	0			
Ethylbenzene	54.81	5.0	50	0	110	80-122	0			
Toluene	58.7	5.0	50	4.436	109	79-120	0			
Xylenes, Total	168.7	15	150	0	112	80-120	0			
Surr: 1,2-Dichloroethane-d4	45.91	0	50	0	91.8	70-128	0			
Surr: 4-Bromofluorobenzene	52.41	0	50	0	105	73-126	0			
Surr: Dibromofluoromethane	52.13	0	50	0	104	71-128	0			
Surr: Toluene-d8	53.44	0	50	0	107	73-127	0			

MSD		Sample ID: 12061234-07AMSD			Units: µg/Kg			Analysis Date: 6/29/2012 03:58 PM		
Client ID: MH-10 @ 34ft		Run ID: VOA3_120629A			SeqNo: 2840753			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	68.15	5.0	50	0	136	79-120	56.43	18.8	30	S
Ethylbenzene	65.33	5.0	50	0	131	80-122	54.81	17.5	30	S
Toluene	71.12	5.0	50	4.436	133	79-120	58.7	19.1	30	S
Xylenes, Total	197.3	15	150	0	132	80-120	168.7	15.6	30	S
Surr: 1,2-Dichloroethane-d4	46.2	0	50	0	92.4	70-128	45.91	0.626	30	
Surr: 4-Bromofluorobenzene	53.98	0	50	0	108	73-126	52.41	2.96	30	
Surr: Dibromofluoromethane	52.85	0	50	0	106	71-128	52.13	1.37	30	
Surr: Toluene-d8	52.41	0	50	0	105	73-127	53.44	1.94	30	

The following samples were analyzed in this batch:

12061234-01A	12061234-02A	12061234-03A
12061234-04A	12061234-05A	12061234-06A
12061234-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130501 Instrument ID VOA6 Method: SW8260

MBLK		Sample ID: VBLKM-070212-R130501			Units: µg/Kg			Analysis Date: 7/2/2012 11:45 PM		
Client ID:		Run ID: VOA6_120702D			SeqNo: 2844448			Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	U	750								
Surr: 1,2-Dichloroethane-d4	2449	0	2500	0	98	70-128	0			
Surr: 4-Bromofluorobenzene	2446	0	2500	0	97.8	73-126	0			
Surr: Dibromofluoromethane	2502	0	2500	0	100	71-128	0			
Surr: Toluene-d8	2490	0	2500	0	99.6	73-127	0			

LCS		Sample ID: VLCSW-070212-R130501			Units: µg/L			Analysis Date: 7/2/2012 11:19 PM		
Client ID:		Run ID: VOA6_120702D			SeqNo: 2844446			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	154.4	15	150	0	103	80-120	0			
Surr: 1,2-Dichloroethane-d4	47.68	5.0	50	0	95.4	70-125	0			
Surr: 4-Bromofluorobenzene	49.87	5.0	50	0	99.7	72-125	0			
Surr: Dibromofluoromethane	49.36	5.0	50	0	98.7	71-125	0			
Surr: Toluene-d8	49.78	5.0	50	0	99.6	75-125	0			

MS		Sample ID: 12061221-01ZMS			Units: µg/Kg			Analysis Date: 7/3/2012 02:24 AM		
Client ID:		Run ID: VOA6_120702D			SeqNo: 2844452			Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	2697	300	3000	0	89.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	971.3	0	1000	0	97.1	70-128	0			
Surr: 4-Bromofluorobenzene	1003	0	1000	0	100	73-126	0			
Surr: Dibromofluoromethane	978.4	0	1000	0	97.8	71-128	0			
Surr: Toluene-d8	989.3	0	1000	0	98.9	73-127	0			

MSD		Sample ID: 12061221-01ZMSD			Units: µg/Kg			Analysis Date: 7/3/2012 02:50 AM		
Client ID:		Run ID: VOA6_120702D			SeqNo: 2844453			Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	2703	300	3000	0	90.1	80-120	2697	0.238	30	
Surr: 1,2-Dichloroethane-d4	962.7	0	1000	0	96.3	70-128	971.3	0.888	30	
Surr: 4-Bromofluorobenzene	993.7	0	1000	0	99.4	73-126	1003	0.965	30	
Surr: Dibromofluoromethane	971.3	0	1000	0	97.1	71-128	978.4	0.728	30	
Surr: Toluene-d8	981.7	0	1000	0	98.2	73-127	989.3	0.774	30	

The following samples were analyzed in this batch:

12061234-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 12061234
 Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R130575 Instrument ID VOA6 Method: SW8260

MBLK Sample ID: VBLKW-070412-R130575 Units: µg/L Analysis Date: 7/5/2012 01:09 AM

Client ID: Run ID: VOA6_120704C SeqNo: 2845919 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	49.06	5.0	50	0	98.1	70-125	0			
Surr: 4-Bromofluorobenzene	49.19	5.0	50	0	98.4	72-125	0			
Surr: Dibromofluoromethane	49.29	5.0	50	0	98.6	71-125	0			
Surr: Toluene-d8	49.84	5.0	50	0	99.7	75-125	0			

LCS Sample ID: VLCSW-070412-R130575 Units: µg/L Analysis Date: 7/5/2012 12:16 AM

Client ID: Run ID: VOA6_120704C SeqNo: 2845918 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.18	5.0	50	0	98.4	73-121	0			
Ethylbenzene	50.84	5.0	50	0	102	80-120	0			
Toluene	49.87	5.0	50	0	99.7	80-120	0			
Xylenes, Total	152.8	15	150	0	102	80-120	0			
Surr: 1,2-Dichloroethane-d4	48.91	5.0	50	0	97.8	70-125	0			
Surr: 4-Bromofluorobenzene	49.3	5.0	50	0	98.6	72-125	0			
Surr: Dibromofluoromethane	49.08	5.0	50	0	98.2	71-125	0			
Surr: Toluene-d8	49.17	5.0	50	0	98.3	75-125	0			

MS Sample ID: 12061229-07ZMS Units: µg/L Analysis Date: 7/5/2012 02:02 AM

Client ID: Run ID: VOA6_120704C SeqNo: 2845921 Prep Date: DF: 500

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48360	2,500	25000	29720	74.6	73-121	0			
Ethylbenzene	22380	2,500	25000	0	89.5	80-120	0			
Toluene	22410	2,500	25000	0	89.7	80-120	0			
Xylenes, Total	68180	7,500	75000	0	90.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	24190	2,500	25000	0	96.8	70-125	0			
Surr: 4-Bromofluorobenzene	24920	2,500	25000	0	99.7	72-125	0			
Surr: Dibromofluoromethane	24580	2,500	25000	0	98.3	71-125	0			
Surr: Toluene-d8	24640	2,500	25000	0	98.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 12061234
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R130575** Instrument ID **VOA6** Method: **SW8260**

MSD Sample ID: **12061229-07ZMSD** Units: **µg/L** Analysis Date: **7/5/2012 02:28 AM**

Client ID: Run ID: **VOA6_120704C** SeqNo: **2845922** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47130	2,500	25000	29720	69.7	73-121	48360	2.57	20	S
Ethylbenzene	21520	2,500	25000	0	86.1	80-120	22380	3.89	20	
Toluene	22040	2,500	25000	0	88.2	80-120	22410	1.68	20	
Xylenes, Total	66890	7,500	75000	0	89.2	80-120	68180	1.91	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>24450</i>	<i>2,500</i>	<i>25000</i>	<i>0</i>	<i>97.8</i>	<i>70-125</i>	<i>24190</i>	<i>1.08</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>25010</i>	<i>2,500</i>	<i>25000</i>	<i>0</i>	<i>100</i>	<i>72-125</i>	<i>24920</i>	<i>0.35</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>24590</i>	<i>2,500</i>	<i>25000</i>	<i>0</i>	<i>98.3</i>	<i>71-125</i>	<i>24580</i>	<i>0.0306</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>24530</i>	<i>2,500</i>	<i>25000</i>	<i>0</i>	<i>98.1</i>	<i>75-125</i>	<i>24640</i>	<i>0.444</i>	<i>20</i>	

The following samples were analyzed in this batch:

12061234-08A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 12061234
Project: US Hwy 6 & Fed Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R130527** Instrument ID **Balance1** Method: **SW3550** **(Dissolve)**

DUP Sample ID: **12061234-07CDUP** Units: **wt%** Analysis Date: **7/2/2012 03:20 PM**
 Client ID: **MH-10 @ 34ft** Run ID: **BALANCE1_120702C** SeqNo: **2844770** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	25.13	0.010	0	0	0	0-0	25.61	1.87	20	

The following samples were analyzed in this batch:

12061234-01C	12061234-02C	12061234-03C
12061234-04C	12061234-05C	12061234-06C
12061234-07C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4
WorkOrder: 12061234

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
wt%	

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **27-Jun-12 09:05**

Work Order: **12061234**

Received by: **RNG**

Checklist completed by Raymond N Gambia 28-Jun-12
eSignature Date

Reviewed by: Patricia L. Lynch 03-Jul-12
eSignature Date

Matrices: Soil, Water

Carrier name: ALS.HS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="2.2c"/>	<input type="text" value="003"/>	
Cooler(s)/Kit(s):	<input type="text" value="3628"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="6/28/2012 20:55"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

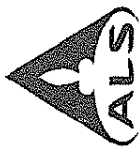
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

Page of
COC ID: 56117

12061234

OLSSON ASSOC - GOLDEN: Olsson Associates
Project: US Hwy 6 & Fed Blvd Bridges Task 4

Environmental

Customer Information				Project Information			
Purchase Order	Project Name	ALS Project Manager:		A	VOC		
Work Order	Project Number	US Hwy 6 & Fed Blvd Bridges Task 4		B	GRO (9015M)		
Company Name	Bill To Company	Olsson Associates		C	DRO (9015M)		
Send Report To	Invoice Attn	James Hix		D	Total Metals (6120/7100) RCRA 8 + Fe/Mn/Al/Zn		
Address	Address	4690 Table Mountain Drive Suite 200		E	PAHs (8270) Low-Level		
City/State/Zip	City/State/Zip	Golden, CO 80403		F	Moisture		
Phone	Phone	(303) 237-2072		G	Gross Alpha/Beta, Rad-226/229		
Fax	Fax	(303) 237-2658		H			
e-Mail Address	e-Mail Address			I			
				J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MH-9 @ 15 ft	06/25/12	09:38	Soil	Ice	3	✓	H	H	✓	H	✓	H				
2	MH-9 @ 24 ft	06/25/12	09:53	Soil	Ice	3	✓	H	H	✓	H	✓	H				
3	MH-11 @ 20 ft	06/25/12	11:50	Soil	Ice	3	✓	H	H	✓	H	✓	H				
4	MH-11 @ 30 ft	06/25/12	12:15	Soil	Ice	3	✓	H	H	✓	H	✓	H				
5	MH-11 @ 39 ft	06/25/12	12:45	Soil	Ice	3	✓	H	H	✓	H	✓	H				
6	MH-10 @ 29 ft	06/25/12	15:23	Soil	Ice	3	✓	H	H	✓	H	✓	H				
7	MH-10 @ 34 ft	06/25/12	15:53	Soil	Ice	3	✓	H	H	✓	H	✓	H				
8	Trip Blank	06/25/12		Water	Ice	2	✓										
9																	
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
James Hix	Fed-Ex	1-5 BULK Days <input type="checkbox"/> 5-10 BULK Days <input type="checkbox"/> 10 Day TAT <input checked="" type="checkbox"/>	
Relinquished by: James Hix	Time: 6/24/12 08:19	Received by (Laboratory):	QC Package: (Check One Box Below)
Relinquished by:	Time:	Checked by (Laboratory):	<input checked="" type="checkbox"/> Level I (30) OC <input type="checkbox"/> TRAC Checkable
Logged by (Laboratory):	Time:		<input type="checkbox"/> Level II (30) OC/RAV Data <input type="checkbox"/> TRAP Level II
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₃ 7-Other 8-4°C 9-5035			<input type="checkbox"/> Level IV (30) SPC/ICL# <input type="checkbox"/> Other (SDG)

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

W/O# 12061234

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number **8987 0850 1571**

Form No. **0200** Recipient's Copy

1 From
 Date 06/26/12
 Sender's Name James Hix Phone 303 237-2072
 Company Olsson Associates
 Address 4690 Table Mountain Dr. 200
 City Golden State CO ZIP 80103

4 Express Package Service * To meet locations. NOTE: Service order has changed. Please select carefully.

Next Business Day

FedEx First Overnight
Earliest next business morning (delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected).

FedEx Priority Overnight
Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
Next business afternoon. * Saturday Delivery NOT available.

2 or 3 Business Days

NEW FedEx 2Day A.M.
Second business morning. * Saturday Delivery NOT available.

FedEx 2Day
Second business afternoon. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver
Third business day. * Saturday Delivery NOT available.

2 Your Internal Billing Reference 111-2359

3 To Recipient's Name Client Services Phone 261 530-5656
 Company ALS Laboratory Group
 Address 450 Stancliff Rd 210
 We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room
 Address Use this line for the HOLD location address or for continuation of your shipping address.
 City Houston State TX ZIP 77049-4835
0447311503

5 Packaging * Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

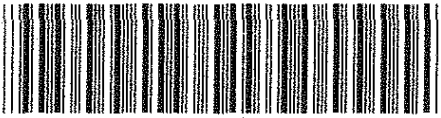
SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
 One box must be checked.
 No Yes As per attached Shipper's Declaration Yes Shipper's Declaration not required Dry Ice Dry ice, 9 UN 1845 _____ x _____ kg
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. Cargo Aircraft Only



8987 0850 1571

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Total Packages 1 Total Weight 57 lbs. Total Declared Value¹ \$ 100.00 Credit Card Auth.

¹Our liability is limited to \$200 unless you declare a higher value. See the current FedEx Service Guide for details.

ALS Environmental
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax +1 281 530 5887

Date: 06/26/12
 Name: _____
 Company: _____

CUSTODY SEAL

Date: 6/26/12 Time: _____
 Name: James Hix
 Company: Olsson Associates

Seal Broken By: _____
 Date: 6/27/12

Custodian
JAMES HIX, PG

TEL 303.237.2072
 CELL 303.589.1572
 FAX 303.237.2659
 jhix@oaconsulting.com

OLSSON ASSOCIATES

4690 Table Mountain Drive
 Suite 200
 Golden, CO 80403
 www.oaconsulting.com

6/26/12 6/27/12

ATTACHMENT C
GROUNDWATER SAMPLE
ANALYTICAL REPORTS



24-Jul-2012

James Hix
Olsson Associates
4690 Table Mountain Drive
Suite 200
Golden, CO 80403

Tel: (303) 237-3139
Fax: (303) 374-3139

Re: US Hwy 6 & Fed. Blvd Bridges Task 4

Work Order: **1207528**

Dear James,

ALS Environmental received 14 samples on 12-Jul-2012 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Patricia L. Lynch".

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Work Order: 1207528

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1207528-01	MH 1	Groundwater		7/10/2012 10:20	7/12/2012 09:30	<input type="checkbox"/>
1207528-02	MH 2	Groundwater		7/10/2012 11:00	7/12/2012 09:30	<input type="checkbox"/>
1207528-03	MH 3	Groundwater		7/10/2012 11:25	7/12/2012 09:30	<input type="checkbox"/>
1207528-04	MH 4	Groundwater		7/10/2012 11:55	7/12/2012 09:30	<input type="checkbox"/>
1207528-05	MH 5	Groundwater		7/10/2012 00:30	7/12/2012 09:30	<input type="checkbox"/>
1207528-06	MH 6	Groundwater		7/10/2012 13:00	7/12/2012 09:30	<input type="checkbox"/>
1207528-07	MH 7	Groundwater		7/10/2012 14:00	7/12/2012 09:30	<input type="checkbox"/>
1207528-08	MH 8	Groundwater		7/10/2012 14:30	7/12/2012 09:30	<input type="checkbox"/>
1207528-09	MH 9	Groundwater		7/10/2012 14:50	7/12/2012 09:30	<input type="checkbox"/>
1207528-10	MH 10	Groundwater		7/10/2012 15:20	7/12/2012 09:30	<input type="checkbox"/>
1207528-11	MH 11	Groundwater		7/10/2012 15:50	7/12/2012 09:30	<input type="checkbox"/>
1207528-12	MH 12	Groundwater		7/10/2012 16:20	7/12/2012 09:30	<input type="checkbox"/>
1207528-13	Troip Blank 052212-26	Water		7/10/2012	7/12/2012 09:30	<input type="checkbox"/>
1207528-14	Trip Blank 052212-49	Water		7/10/2012	7/12/2012 09:30	<input type="checkbox"/>

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Work Order: 1207528

Case Narrative

The assigned analyses were based on correspondence between ALS and Olsson Associates and may differ from those listed on the chain of custody.

DRO/ORO surrogates are diluted out in samples MH 3, MH 10, MH 11 and MH 12 due to the sample matrices.

Results for pH are flagged with H indicating that the holding times were exceeded. Per 40CFR136, the holding time for pH is "immediate."

Batch 62758, Metals, Sample 1207518-01: MS/MSD recoveries are for an unrelated sample.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 1
Collection Date: 7/10/2012 10:20 AM

Work Order: 1207528
Lab ID: 1207528-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M			Analyst: KMB	
TPH (Diesel Range)	0.72		0.054	mg/L	1	7/17/2012	7/17/2012 04:09 PM
TPH (Oil Range)	0.90		0.11	mg/L	1	7/17/2012	7/17/2012 04:09 PM
Surr: 2-Fluorobiphenyl	98.0		60-135	%REC	1	7/17/2012	7/17/2012 04:09 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 02:37 AM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	7/17/2012	7/17/2012 02:37 AM
MERCURY-SW7470A			SW7470			Analyst: JCJ	
Mercury	0.000201		0.000200	mg/L	1	7/17/2012	7/17/2012 04:20 PM
METALS			SW6020			Analyst: SKS	
Arsenic	0.0663		0.00500	mg/L	1	7/19/2012	7/23/2012 09:31 AM
Barium	4.14		0.0500	mg/L	10	7/19/2012	7/23/2012 09:41 AM
Cadmium	0.00428		0.00200	mg/L	1	7/19/2012	7/23/2012 09:31 AM
Chromium	0.311		0.00500	mg/L	1	7/19/2012	7/23/2012 09:31 AM
Lead	0.275		0.00500	mg/L	1	7/19/2012	7/23/2012 09:31 AM
Selenium	0.0171		0.00500	mg/L	1	7/19/2012	7/23/2012 09:31 AM
Silver	0.00137	J	0.00500	mg/L	1	7/19/2012	7/23/2012 09:31 AM
VOLATILES			SW8260			Analyst: PC	
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 03:42 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 03:42 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 03:42 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 03:42 AM
Surr: 1,2-Dichloroethane-d4	103		70-125	%REC	1	7/17/2012	7/17/2012 03:42 AM
Surr: 4-Bromofluorobenzene	100		72-125	%REC	1	7/17/2012	7/17/2012 03:42 AM
Surr: Dibromofluoromethane	102		71-125	%REC	1	7/17/2012	7/17/2012 03:42 AM
Surr: Toluene-d8	97.9		75-125	%REC	1	7/17/2012	7/17/2012 03:42 AM
OIL AND GREASE			E1664			Analyst: TDW	
Oil and Grease	0.682	J	2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B			Analyst: EDG	
pH	7.04	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.0	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: IAB	
Suspended Solids (Residue, Non-Filterable)	5,510		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 2
Collection Date: 7/10/2012 11:00 AM

Work Order: 1207528
Lab ID: 1207528-02
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M			Analyst: KMB	
TPH (Diesel Range)	3.4		0.049	mg/L	1	7/17/2012	7/17/2012 04:31 PM
TPH (Oil Range)	4.3		0.098	mg/L	1	7/17/2012	7/17/2012 04:31 PM
Surr: 2-Fluorobiphenyl	85.5		60-135	%REC	1	7/17/2012	7/17/2012 04:31 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 02:55 AM
Surr: 4-Bromofluorobenzene	85.2		70-130	%REC	1	7/17/2012	7/17/2012 02:55 AM
MERCURY-SW7470A			SW7470			Analyst: JCJ	
Mercury	U		0.000200	mg/L	1	7/17/2012	7/17/2012 04:22 PM
METALS			SW6020			Analyst: SKS	
Arsenic	0.00516		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Barium	0.338		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Cadmium	U		0.00200	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Chromium	0.0225		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Lead	0.0181		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Selenium	0.0132		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 09:33 AM
VOLATILES			SW8260			Analyst: PC	
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:09 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:09 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:09 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 04:09 AM
Surr: 1,2-Dichloroethane-d4	103		70-125	%REC	1	7/17/2012	7/17/2012 04:09 AM
Surr: 4-Bromofluorobenzene	100		72-125	%REC	1	7/17/2012	7/17/2012 04:09 AM
Surr: Dibromofluoromethane	101		71-125	%REC	1	7/17/2012	7/17/2012 04:09 AM
Surr: Toluene-d8	96.1		75-125	%REC	1	7/17/2012	7/17/2012 04:09 AM
OIL AND GREASE			E1664			Analyst: TDW	
Oil and Grease	2.20		2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B			Analyst: EDG	
pH	6.86	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.4	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: IAB	
Suspended Solids (Residue, Non-Filterable)	9,590		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 3
Collection Date: 7/10/2012 11:25 AM

Work Order: 1207528
Lab ID: 1207528-03
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	18		0.49	mg/L	10	7/17/2012	7/18/2012 06:03 PM
TPH (Oil Range)	26		0.97	mg/L	10	7/17/2012	7/18/2012 06:03 PM
Surr: 2-Fluorobiphenyl	0	S	60-135	%REC	10	7/17/2012	7/18/2012 06:03 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 03:13 AM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	7/17/2012	7/17/2012 03:13 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.000109	J	0.000200	mg/L	1	7/17/2012	7/17/2012 04:24 PM
METALS			SW6020				Analyst: SKS
Arsenic	0.0230		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Barium	1.53		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Cadmium	0.00149	J	0.00200	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Chromium	0.140		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Lead	0.105		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Selenium	0.0453		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 09:36 AM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:35 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:35 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 04:35 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 04:35 AM
Surr: 1,2-Dichloroethane-d4	102		70-125	%REC	1	7/17/2012	7/17/2012 04:35 AM
Surr: 4-Bromofluorobenzene	98.7		72-125	%REC	1	7/17/2012	7/17/2012 04:35 AM
Surr: Dibromofluoromethane	101		71-125	%REC	1	7/17/2012	7/17/2012 04:35 AM
Surr: Toluene-d8	97.0		75-125	%REC	1	7/17/2012	7/17/2012 04:35 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	0.667	J	2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	6.93	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.4	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	11,400		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 4
Collection Date: 7/10/2012 11:55 AM

Work Order: 1207528
Lab ID: 1207528-04
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	4.0		0.047	mg/L	1	7/17/2012	7/17/2012 05:16 PM
TPH (Oil Range)	5.6		0.094	mg/L	1	7/17/2012	7/17/2012 05:16 PM
Surr: 2-Fluorobiphenyl	62.6		60-135	%REC	1	7/17/2012	7/17/2012 05:16 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 03:31 AM
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	7/17/2012	7/17/2012 03:31 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.0000730	J	0.000200	mg/L	1	7/17/2012	7/17/2012 04:26 PM
METALS			SW6020				Analyst: SKS
Arsenic	0.0298		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Barium	1.56		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Cadmium	0.00171	J	0.00200	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Chromium	0.127		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Lead	0.0988		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Selenium	0.0418		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 09:39 AM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:02 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:02 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:02 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 05:02 AM
Surr: 1,2-Dichloroethane-d4	103		70-125	%REC	1	7/17/2012	7/17/2012 05:02 AM
Surr: 4-Bromofluorobenzene	97.8		72-125	%REC	1	7/17/2012	7/17/2012 05:02 AM
Surr: Dibromofluoromethane	100		71-125	%REC	1	7/17/2012	7/17/2012 05:02 AM
Surr: Toluene-d8	95.5		75-125	%REC	1	7/17/2012	7/17/2012 05:02 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	0.889	J	2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	7.18	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.6	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	1,530		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 5
Collection Date: 7/10/2012 12:30 AM

Work Order: 1207528
Lab ID: 1207528-05
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M			Analyst: KMB	
TPH (Diesel Range)	0.14		0.047	mg/L	1	7/17/2012	7/17/2012 05:38 PM
TPH (Oil Range)	0.21		0.093	mg/L	1	7/17/2012	7/17/2012 05:38 PM
Surr: 2-Fluorobiphenyl	60.2		60-135	%REC	1	7/17/2012	7/17/2012 05:38 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 03:48 AM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/17/2012	7/17/2012 03:48 AM
MERCURY-SW7470A			SW7470			Analyst: JCJ	
Mercury	0.000188	J	0.000200	mg/L	1	7/17/2012	7/17/2012 04:28 PM
METALS			SW6020			Analyst: ALR	
Arsenic	0.0479		0.00500	mg/L	1	7/19/2012	7/23/2012 04:11 PM
Barium	5.24		0.0250	mg/L	5	7/19/2012	7/20/2012 05:41 AM
Cadmium	0.00966		0.00200	mg/L	1	7/19/2012	7/23/2012 04:11 PM
Chromium	0.524		0.0250	mg/L	5	7/19/2012	7/20/2012 05:41 AM
Lead	0.459		0.0250	mg/L	5	7/19/2012	7/20/2012 05:41 AM
Selenium	0.0919		0.00500	mg/L	1	7/19/2012	7/23/2012 04:11 PM
Silver	0.00968		0.00500	mg/L	1	7/19/2012	7/23/2012 04:11 PM
VOLATILES			SW8260			Analyst: PC	
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:28 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:28 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:28 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 05:28 AM
Surr: 1,2-Dichloroethane-d4	104		70-125	%REC	1	7/17/2012	7/17/2012 05:28 AM
Surr: 4-Bromofluorobenzene	98.3		72-125	%REC	1	7/17/2012	7/17/2012 05:28 AM
Surr: Dibromofluoromethane	98.7		71-125	%REC	1	7/17/2012	7/17/2012 05:28 AM
Surr: Toluene-d8	98.8		75-125	%REC	1	7/17/2012	7/17/2012 05:28 AM
OIL AND GREASE			E1664			Analyst: TDW	
Oil and Grease	U		2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B			Analyst: EDG	
pH	6.94	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.0	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: IAB	
Suspended Solids (Residue, Non-Filterable)	29,100		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 6
Collection Date: 7/10/2012 01:00 PM

Work Order: 1207528
Lab ID: 1207528-06
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	0.75		0.053	mg/L	1	7/17/2012	7/17/2012 06:00 PM
TPH (Oil Range)	0.98		0.11	mg/L	1	7/17/2012	7/17/2012 06:00 PM
Surr: 2-Fluorobiphenyl	118		60-135	%REC	1	7/17/2012	7/17/2012 06:00 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 04:06 AM
Surr: 4-Bromofluorobenzene	94.9		70-130	%REC	1	7/17/2012	7/17/2012 04:06 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.000454		0.000200	mg/L	1	7/17/2012	7/17/2012 04:30 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.0666		0.00500	mg/L	1	7/19/2012	7/23/2012 04:15 PM
Barium	6.84		0.0250	mg/L	5	7/19/2012	7/20/2012 05:46 AM
Cadmium	0.00539		0.00200	mg/L	1	7/19/2012	7/23/2012 04:15 PM
Chromium	0.420		0.0250	mg/L	5	7/19/2012	7/20/2012 05:46 AM
Lead	0.387		0.0250	mg/L	5	7/19/2012	7/20/2012 05:46 AM
Selenium	0.0870		0.00500	mg/L	1	7/19/2012	7/23/2012 04:15 PM
Silver	0.0142		0.00500	mg/L	1	7/19/2012	7/23/2012 04:15 PM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:55 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:55 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 05:55 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 05:55 AM
Surr: 1,2-Dichloroethane-d4	99.8		70-125	%REC	1	7/17/2012	7/17/2012 05:55 AM
Surr: 4-Bromofluorobenzene	96.7		72-125	%REC	1	7/17/2012	7/17/2012 05:55 AM
Surr: Dibromofluoromethane	100		71-125	%REC	1	7/17/2012	7/17/2012 05:55 AM
Surr: Toluene-d8	96.5		75-125	%REC	1	7/17/2012	7/17/2012 05:55 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	U		2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	6.64	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.3	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	26,600		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 7
Collection Date: 7/10/2012 02:00 PM

Work Order: 1207528
Lab ID: 1207528-07
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	1.6		0.048	mg/L	1	7/17/2012	7/17/2012 06:22 PM
TPH (Oil Range)	2.2		0.097	mg/L	1	7/17/2012	7/17/2012 06:22 PM
Surr: 2-Fluorobiphenyl	87.9		60-135	%REC	1	7/17/2012	7/17/2012 06:22 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 04:42 AM
Surr: 4-Bromofluorobenzene	98.3		70-130	%REC	1	7/17/2012	7/17/2012 04:42 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	U		0.000200	mg/L	1	7/17/2012	7/17/2012 04:33 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.00265	J	0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Barium	0.157		0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Cadmium	U		0.00200	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Chromium	0.0124		0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Lead	0.00949		0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Selenium	0.0692		0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 04:19 PM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:22 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:22 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:22 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 06:22 AM
Surr: 1,2-Dichloroethane-d4	107		70-125	%REC	1	7/17/2012	7/17/2012 06:22 AM
Surr: 4-Bromofluorobenzene	97.0		72-125	%REC	1	7/17/2012	7/17/2012 06:22 AM
Surr: Dibromofluoromethane	101		71-125	%REC	1	7/17/2012	7/17/2012 06:22 AM
Surr: Toluene-d8	95.8		75-125	%REC	1	7/17/2012	7/17/2012 06:22 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	1.30	J	2.00	mg/L	1	7/20/2012	7/20/2012 03:00 PM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	6.96	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.3	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	3,740		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 8
Collection Date: 7/10/2012 02:30 PM

Work Order: 1207528
Lab ID: 1207528-08
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M			Analyst: KMB	
TPH (Diesel Range)	0.049		0.047	mg/L	1	7/17/2012	7/17/2012 06:44 PM
TPH (Oil Range)	U		0.094	mg/L	1	7/17/2012	7/17/2012 06:44 PM
Surr: 2-Fluorobiphenyl	113		60-135	%REC	1	7/17/2012	7/17/2012 06:44 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 04:59 AM
Surr: 4-Bromofluorobenzene	92.7		70-130	%REC	1	7/17/2012	7/17/2012 04:59 AM
MERCURY-SW7470A			SW7470			Analyst: JCJ	
Mercury	U		0.000200	mg/L	1	7/17/2012	7/17/2012 04:34 PM
METALS			SW6020			Analyst: ALR	
Arsenic	0.00594		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Barium	0.304		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Cadmium	U		0.00200	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Chromium	0.0271		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Lead	0.0240		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Selenium	0.0423		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 04:24 PM
VOLATILES			SW8260			Analyst: PC	
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:48 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:48 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 06:48 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 06:48 AM
Surr: 1,2-Dichloroethane-d4	103		70-125	%REC	1	7/17/2012	7/17/2012 06:48 AM
Surr: 4-Bromofluorobenzene	98.6		72-125	%REC	1	7/17/2012	7/17/2012 06:48 AM
Surr: Dibromofluoromethane	99.3		71-125	%REC	1	7/17/2012	7/17/2012 06:48 AM
Surr: Toluene-d8	96.8		75-125	%REC	1	7/17/2012	7/17/2012 06:48 AM
OIL AND GREASE			E1664			Analyst: TDW	
Oil and Grease	1.60	J	2.00	mg/L	1	7/20/2012	7/20/2012 03:00 PM
PH - SM4500H+ B			SM4500H+ B			Analyst: EDG	
pH	8.09	H	0.100	pH Units	1	7/19/2012	7/19/2012 09:00 AM
Temp Deg C @pH	22.4	H		°C	1	7/19/2012	7/19/2012 09:00 AM
TOTAL SUSPENDED SOLIDS			M2540D			Analyst: IAB	
Suspended Solids (Residue, Non-Filterable)	3,290		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 9
Collection Date: 7/10/2012 02:50 PM

Work Order: 1207528
Lab ID: 1207528-09
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	0.68		0.048	mg/L	1	7/17/2012	7/17/2012 07:06 PM
TPH (Oil Range)	0.96		0.097	mg/L	1	7/17/2012	7/17/2012 07:06 PM
Surr: 2-Fluorobiphenyl	67.2		60-135	%REC	1	7/17/2012	7/17/2012 07:06 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 05:17 AM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	7/17/2012	7/17/2012 05:17 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	U		0.000200	mg/L	1	7/17/2012	7/17/2012 04:40 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.00167	J	0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Barium	0.0640		0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Cadmium	U		0.00200	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Chromium	0.00324	J	0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Lead	0.00286	J	0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Selenium	0.00859		0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 04:36 PM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:15 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:15 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:15 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 07:15 AM
Surr: 1,2-Dichloroethane-d4	100		70-125	%REC	1	7/17/2012	7/17/2012 07:15 AM
Surr: 4-Bromofluorobenzene	95.7		72-125	%REC	1	7/17/2012	7/17/2012 07:15 AM
Surr: Dibromofluoromethane	97.5		71-125	%REC	1	7/17/2012	7/17/2012 07:15 AM
Surr: Toluene-d8	97.0		75-125	%REC	1	7/17/2012	7/17/2012 07:15 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	U		2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	7.36	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	22.6	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	5,830		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 10
Collection Date: 7/10/2012 03:20 PM

Work Order: 1207528
Lab ID: 1207528-10
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	5.9		0.46	mg/L	10	7/17/2012	7/18/2012 06:26 PM
TPH (Oil Range)	8.4		0.93	mg/L	10	7/17/2012	7/18/2012 06:26 PM
Surr: 2-Fluorobiphenyl	0	S	60-135	%REC	10	7/17/2012	7/18/2012 06:26 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/17/2012	7/17/2012 05:35 AM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	1	7/17/2012	7/17/2012 05:35 AM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.000179	J	0.000200	mg/L	1	7/17/2012	7/17/2012 04:42 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.0591		0.00500	mg/L	1	7/19/2012	7/23/2012 04:41 PM
Barium	2.97		0.0250	mg/L	5	7/19/2012	7/20/2012 06:20 AM
Cadmium	0.00382		0.00200	mg/L	1	7/19/2012	7/23/2012 04:41 PM
Chromium	0.200		0.00500	mg/L	1	7/19/2012	7/23/2012 04:41 PM
Lead	0.229		0.00500	mg/L	1	7/19/2012	7/23/2012 04:41 PM
Selenium	0.0444		0.00500	mg/L	1	7/19/2012	7/23/2012 04:41 PM
Silver	0.00145	J	0.00500	mg/L	1	7/19/2012	7/23/2012 04:41 PM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:41 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:41 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 07:41 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 07:41 AM
Surr: 1,2-Dichloroethane-d4	105		70-125	%REC	1	7/17/2012	7/17/2012 07:41 AM
Surr: 4-Bromofluorobenzene	102		72-125	%REC	1	7/17/2012	7/17/2012 07:41 AM
Surr: Dibromofluoromethane	99.4		71-125	%REC	1	7/17/2012	7/17/2012 07:41 AM
Surr: Toluene-d8	96.7		75-125	%REC	1	7/17/2012	7/17/2012 07:41 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	U		2.00	mg/L	1	7/20/2012	7/20/2012 08:00 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	7.13	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.4	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	8,430		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 11
Collection Date: 7/10/2012 03:50 PM

Work Order: 1207528
Lab ID: 1207528-11
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	4.2		0.47	mg/L	10	7/17/2012	7/18/2012 06:48 PM
TPH (Oil Range)	6.2		0.94	mg/L	10	7/17/2012	7/18/2012 06:48 PM
Surr: 2-Fluorobiphenyl	0	S	60-135	%REC	10	7/17/2012	7/18/2012 06:48 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	1.09		0.0500	mg/L	1	7/19/2012	7/19/2012 04:02 PM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	7/19/2012	7/19/2012 04:02 PM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.0000560	J	0.000200	mg/L	1	7/17/2012	7/17/2012 04:44 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.0199		0.00500	mg/L	1	7/19/2012	7/23/2012 04:45 PM
Barium	0.930		0.0250	mg/L	5	7/19/2012	7/20/2012 06:25 AM
Cadmium	0.000944	J	0.00200	mg/L	1	7/19/2012	7/23/2012 04:45 PM
Chromium	0.0861		0.00500	mg/L	1	7/19/2012	7/23/2012 04:45 PM
Lead	0.0667		0.00500	mg/L	1	7/19/2012	7/23/2012 04:45 PM
Selenium	0.0170		0.00500	mg/L	1	7/19/2012	7/23/2012 04:45 PM
Silver	U		0.00500	mg/L	1	7/19/2012	7/23/2012 04:45 PM
VOLATILES			SW8260				Analyst: PC
Benzene	200		5.0	µg/L	1	7/17/2012	7/17/2012 08:08 AM
Ethylbenzene	8.3		5.0	µg/L	1	7/17/2012	7/17/2012 08:08 AM
Toluene	11		5.0	µg/L	1	7/17/2012	7/17/2012 08:08 AM
Xylenes, Total	84		15	µg/L	1	7/17/2012	7/17/2012 08:08 AM
Surr: 1,2-Dichloroethane-d4	94.6		70-125	%REC	1	7/17/2012	7/17/2012 08:08 AM
Surr: 4-Bromofluorobenzene	101		72-125	%REC	1	7/17/2012	7/17/2012 08:08 AM
Surr: Dibromofluoromethane	94.6		71-125	%REC	1	7/17/2012	7/17/2012 08:08 AM
Surr: Toluene-d8	101		75-125	%REC	1	7/17/2012	7/17/2012 08:08 AM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	6.99	H	0.100	pH Units	1	7/18/2012	7/18/2012 10:00 AM
Temp Deg C @pH	23.5	H		°C	1	7/18/2012	7/18/2012 10:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	12,600		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-12

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
Sample ID: MH 12
Collection Date: 7/10/2012 04:20 PM

Work Order: 1207528
Lab ID: 1207528-12
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
TPH DRO/ORO			SW8015M				Analyst: KMB
TPH (Diesel Range)	4.7		0.53	mg/L	10	7/17/2012	7/18/2012 07:10 PM
TPH (Oil Range)	6.9		1.1	mg/L	10	7/17/2012	7/18/2012 07:10 PM
Surr: 2-Fluorobiphenyl	0	S	60-135	%REC	10	7/17/2012	7/18/2012 07:10 PM
GASOLINE RANGE ORGANICS - SW8015C			SW8015				Analyst: KKP
Gasoline Range Organics	U		0.0500	mg/L	1	7/19/2012	7/19/2012 04:20 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/19/2012	7/19/2012 04:20 PM
MERCURY-SW7470A			SW7470				Analyst: JCJ
Mercury	0.000323		0.000200	mg/L	1	7/17/2012	7/17/2012 04:46 PM
METALS			SW6020				Analyst: ALR
Arsenic	0.127		0.00500	mg/L	1	7/19/2012	7/23/2012 04:49 PM
Barium	7.12		0.0250	mg/L	5	7/19/2012	7/20/2012 06:29 AM
Cadmium	0.00251		0.00200	mg/L	1	7/19/2012	7/23/2012 04:49 PM
Chromium	0.317		0.0250	mg/L	5	7/19/2012	7/20/2012 06:29 AM
Lead	0.489		0.0250	mg/L	5	7/19/2012	7/20/2012 06:29 AM
Selenium	0.0729		0.00500	mg/L	1	7/19/2012	7/23/2012 04:49 PM
Silver	0.0107		0.00500	mg/L	1	7/19/2012	7/23/2012 04:49 PM
VOLATILES			SW8260				Analyst: PC
Benzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 08:35 AM
Ethylbenzene	U		5.0	µg/L	1	7/17/2012	7/17/2012 08:35 AM
Toluene	U		5.0	µg/L	1	7/17/2012	7/17/2012 08:35 AM
Xylenes, Total	U		15	µg/L	1	7/17/2012	7/17/2012 08:35 AM
Surr: 1,2-Dichloroethane-d4	97.9		70-125	%REC	1	7/17/2012	7/17/2012 08:35 AM
Surr: 4-Bromofluorobenzene	98.4		72-125	%REC	1	7/17/2012	7/17/2012 08:35 AM
Surr: Dibromofluoromethane	95.3		71-125	%REC	1	7/17/2012	7/17/2012 08:35 AM
Surr: Toluene-d8	95.1		75-125	%REC	1	7/17/2012	7/17/2012 08:35 AM
OIL AND GREASE			E1664				Analyst: TDW
Oil and Grease	U		2.00	mg/L	1	7/20/2012	7/20/2012 03:00 PM
PH - SM4500H+ B			SM4500H+ B				Analyst: EDG
pH	6.44	H	0.100	pH Units	1	7/19/2012	7/19/2012 09:00 AM
Temp Deg C @pH	22.9	H		°C	1	7/19/2012	7/19/2012 09:00 AM
TOTAL SUSPENDED SOLIDS			M2540D				Analyst: IAB
Suspended Solids (Residue, Non-Filterable)	26,200		2.00	mg/L	1	7/17/2012	7/17/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1207528
Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62677** Instrument ID **FID-16** Method: **SW8015M**

MBLK		Sample ID: LBLKW1-120716-62677			Units: mg/L			Analysis Date: 7/17/2012 03:03 PM		
Client ID:		Run ID: FID-16_120717A			SeqNo: 2866893			Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	0.050								
TPH (Oil Range)	U	0.10								
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.06609</i>	<i>0.0050</i>	<i>0.06061</i>	<i>0</i>	<i>109</i>	<i>60-135</i>	<i>0</i>			

LCS		Sample ID: LLCSW1-120716-62677			Units: mg/L			Analysis Date: 7/17/2012 03:25 PM		
Client ID:		Run ID: FID-16_120717A			SeqNo: 2866894			Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.701	0.050	0.6061	0	116	70-130	0			
TPH (Oil Range)	0.6255	0.10	0.6061	0	103	70-130	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.07464</i>	<i>0.0050</i>	<i>0.06061</i>	<i>0</i>	<i>123</i>	<i>60-135</i>	<i>0</i>			

LCSD		Sample ID: LLCSDW1-120716-62677			Units: mg/L			Analysis Date: 7/17/2012 03:47 PM		
Client ID:		Run ID: FID-16_120717A			SeqNo: 2866895			Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.7547	0.050	0.6061	0	125	70-130	0.701	7.38	20	
TPH (Oil Range)	0.6934	0.10	0.6061	0	114	70-130	0.6255	10.3	20	
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.07106</i>	<i>0.0050</i>	<i>0.06061</i>	<i>0</i>	<i>117</i>	<i>60-135</i>	<i>0.07464</i>	<i>4.91</i>	<i>20</i>	

The following samples were analyzed in this batch:

1207528-01C	1207528-02C	1207528-03C
1207528-04C	1207528-05C	1207528-06C
1207528-07C	1207528-08C	1207528-09C
1207528-10C	1207528-11C	1207528-12C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R131328 Instrument ID FID-9 Method: SW8015

MBLK		Sample ID: GBLKW2-120716-R131328			Units: mg/L			Analysis Date: 7/16/2012 10:29 PM		
Client ID:		Run ID: FID-9_120716B			SeqNo: 2861529			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
<i>Surr: 4-Bromofluorobenzene</i>	0.1042	0.0050	0.1	0	104	70-130	0			

LCS		Sample ID: GLCSW2-120716-R131328			Units: mg/L			Analysis Date: 7/16/2012 09:35 PM		
Client ID:		Run ID: FID-9_120716B			SeqNo: 2861526			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.033	0.050	1	0	103	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	0.1065	0.0050	0.1	0	106	70-130	0			

LCSD		Sample ID: GLCSDW2-120716-R131328			Units: mg/L			Analysis Date: 7/16/2012 09:53 PM		
Client ID:		Run ID: FID-9_120716B			SeqNo: 2861528			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.014	0.050	1	0	101	70-130	1.033	1.85	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1124	0.0050	0.1	0	112	70-130	0.1065	5.38	30	

MS		Sample ID: 1207528-10BMS			Units: mg/L			Analysis Date: 7/17/2012 05:53 AM		
Client ID: MH 10		Run ID: FID-9_120716B			SeqNo: 2861552			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9975	0.050	1	0	99.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	0.1132	0.0050	0.1	0	113	70-130	0			

MSD		Sample ID: 1207528-10BMSD			Units: mg/L			Analysis Date: 7/17/2012 06:10 AM		
Client ID: MH 10		Run ID: FID-9_120716B			SeqNo: 2861553			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.047	0.050	1	0	105	70-130	0.9975	4.82	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1198	0.0050	0.1	0	120	70-130	0.1132	5.68	30	

The following samples were analyzed in this batch:

1207528-01B	1207528-02B	1207528-03B
1207528-04B	1207528-05B	1207528-06B
1207528-07B	1207528-08B	1207528-09B
1207528-10B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R131598 Instrument ID FID-9 Method: SW8015

MBLK		Sample ID: GBLKW1-120719-R131598				Units: mg/L		Analysis Date: 7/19/2012 03:43 PM		
Client ID:		Run ID: FID-9_120719A				SeqNo: 2867939		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
<i>Surr: 4-Bromofluorobenzene</i>	0.09761	0.0050	0.1	0	97.6	70-130	0			

LCS		Sample ID: GLCSW1-120719-R131598				Units: mg/L		Analysis Date: 7/19/2012 02:49 PM		
Client ID:		Run ID: FID-9_120719A				SeqNo: 2867937		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.083	0.050	1	0	108	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	0.1226	0.0050	0.1	0	123	70-130	0			

LCSD		Sample ID: GLCSDW1-120719-R131598				Units: mg/L		Analysis Date: 7/19/2012 03:07 PM		
Client ID:		Run ID: FID-9_120719A				SeqNo: 2867938		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.126	0.050	1	0	113	70-130	1.083	3.93	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1099	0.0050	0.1	0	110	70-130	0.1226	11	30	

MS		Sample ID: 12061495-11ZMS				Units: mg/L		Analysis Date: 7/19/2012 05:16 PM		
Client ID:		Run ID: FID-9_120719A				SeqNo: 2867943		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.005	0.050	1	0	101	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	0.1295	0.0050	0.1	0	129	70-130	0			

MSD		Sample ID: 12061495-11ZMSD				Units: mg/L		Analysis Date: 7/19/2012 05:35 PM		
Client ID:		Run ID: FID-9_120719A				SeqNo: 2867944		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.05	0.050	1	0	105	70-130	1.005	4.38	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1269	0.0050	0.1	0	127	70-130	0.1295	2.01	30	

The following samples were analyzed in this batch: 1207528-11B 1207528-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62681** Instrument ID **Mercury** Method: **SW7470**

MBLK	Sample ID: GBLKW2-071712-62681	Units: mg/L					Analysis Date: 7/17/2012 03:50 PM				
Client ID:	Run ID: MERCURY_120717A	SeqNo: 2862864			Prep Date: 7/17/2012		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	U	0.00020									

LCS	Sample ID: GLCSW2-071712-62681	Units: mg/L					Analysis Date: 7/17/2012 03:52 PM				
Client ID:	Run ID: MERCURY_120717A	SeqNo: 2862865			Prep Date: 7/17/2012		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.0049	0.00020	0.005	0	98	85-115	0				

MS	Sample ID: 1207543-01DMS	Units: mg/L					Analysis Date: 7/17/2012 04:01 PM				
Client ID:	Run ID: MERCURY_120717A	SeqNo: 2862868			Prep Date: 7/17/2012		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.00481	0.00020	0.005	0.000022	95.8	85-115	0				

MSD	Sample ID: 1207543-01DMSD	Units: mg/L					Analysis Date: 7/17/2012 04:03 PM				
Client ID:	Run ID: MERCURY_120717A	SeqNo: 2862869			Prep Date: 7/17/2012		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.00478	0.00020	0.005	0.000022	95.2	85-115	0.00481	0.626	20		

DUP	Sample ID: 1207543-01DDUP	Units: mg/L					Analysis Date: 7/17/2012 03:59 PM				
Client ID:	Run ID: MERCURY_120717A	SeqNo: 2862867			Prep Date: 7/17/2012		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	U	0.00020	0	0	0	0-0	0.000022	0	20		

The following samples were analyzed in this batch:

1207528-01E	1207528-02E	1207528-03E
1207528-04E	1207528-05E	1207528-06E
1207528-07E	1207528-08E	1207528-09E
1207528-10E	1207528-11E	1207528-12E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62758** Instrument ID **ICPMS03** Method: **SW6020**

MBLK Sample ID: **MBLKW2-071912-62758** Units: **mg/L** Analysis Date: **7/20/2012 02:22 PM**

Client ID: Run ID: **ICPMS03_120720A** SeqNo: **2867722** Prep Date: **7/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

LCS Sample ID: **MLCSW2-071912-62758** Units: **mg/L** Analysis Date: **7/20/2012 02:26 PM**

Client ID: Run ID: **ICPMS03_120720A** SeqNo: **2867723** Prep Date: **7/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04794	0.0050	0.05	0	95.9	80-120	0			
Barium	0.04758	0.0050	0.05	0	95.2	80-120	0			
Cadmium	0.04725	0.0020	0.05	0	94.5	80-120	0			
Chromium	0.04963	0.0050	0.05	0	99.3	80-120	0			
Lead	0.04651	0.0050	0.05	0	93	80-120	0			
Selenium	0.04941	0.0050	0.05	0	98.8	80-120	0			
Silver	0.04756	0.0050	0.05	0	95.1	80-120	0			

MS Sample ID: **1207518-01CMS** Units: **mg/L** Analysis Date: **7/20/2012 03:42 PM**

Client ID: Run ID: **ICPMS03_120720A** SeqNo: **2867734** Prep Date: **7/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04741	0.0050	0.05	0.00062	93.6	80-120	0			
Barium	0.2451	0.0050	0.05	0.1824	125	80-120	0			S
Cadmium	0.0479	0.0020	0.05	0.0004252	94.9	80-120	0			
Chromium	0.04729	0.0050	0.05	0.0002201	94.1	80-120	0			
Lead	0.04833	0.0050	0.05	0.001001	94.7	80-120	0			
Selenium	0.04697	0.0050	0.05	0.001732	90.5	80-120	0			
Silver	0.04934	0.0050	0.05	0.0002656	98.1	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62758** Instrument ID **ICPMS03** Method: **SW6020**

MSD		Sample ID: 1207518-01CMSD				Units: mg/L		Analysis Date: 7/20/2012 04:15 PM		
Client ID:		Run ID: ICPMS03_120720A				SeqNo: 2867736		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04883	0.0050	0.05	0.00062	96.4	80-120	0.04741	2.95	15	
Barium	0.2512	0.0050	0.05	0.1824	138	80-120	0.2451	2.46	15	S
Cadmium	0.04994	0.0020	0.05	0.0004252	99	80-120	0.0479	4.17	15	
Chromium	0.04902	0.0050	0.05	0.0002201	97.6	80-120	0.04729	3.59	15	
Lead	0.05046	0.0050	0.05	0.001001	98.9	80-120	0.04833	4.31	15	
Selenium	0.05016	0.0050	0.05	0.001732	96.9	80-120	0.04697	6.57	15	
Silver	0.05119	0.0050	0.05	0.0002656	102	80-120	0.04934	3.68	15	

DUP		Sample ID: 1207518-01CDUP				Units: mg/L		Analysis Date: 7/20/2012 02:43 PM		
Client ID:		Run ID: ICPMS03_120720A				SeqNo: 2867729		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050	0	0	0	0-0	0.00062	0	25	
Barium	0.1845	0.0050	0	0	0	0-0	0.1824	1.14	25	
Cadmium	U	0.0020	0	0	0	0-0	0.0004252	0	25	
Chromium	U	0.0050	0	0	0	0-0	0.0002201	0	25	
Lead	0.0008646	0.0050	0	0	0	0-0	0.001001	0	25	J
Selenium	U	0.0050	0	0	0	0-0	0.001732	0	25	
Silver	U	0.0050	0	0	0	0-0	0.0002656	0	25	

The following samples were analyzed in this batch:

1207528-01E	1207528-02E	1207528-03E
1207528-04E		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **62759** Instrument ID **ICPMS03** Method: **SW6020**

MBLK		Sample ID: MBLKW3-071912-62759			Units: mg/L		Analysis Date: 7/20/2012 02:58 AM			
Client ID:		Run ID: ICPMS03_120719A			SeqNo: 2866928		Prep Date: 7/19/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

LCS		Sample ID: MLCSW3-071912-62759			Units: mg/L		Analysis Date: 7/20/2012 03:03 AM			
Client ID:		Run ID: ICPMS03_120719A			SeqNo: 2866929		Prep Date: 7/19/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04758	0.0050	0.05	0	95.2	80-120	0			
Barium	0.04766	0.0050	0.05	0	95.3	80-120	0			
Cadmium	0.0477	0.0020	0.05	0	95.4	80-120	0			
Chromium	0.04817	0.0050	0.05	0	96.3	80-120	0			
Lead	0.04705	0.0050	0.05	0	94.1	80-120	0			
Selenium	0.04555	0.0050	0.05	0	91.1	80-120	0			
Silver	0.04877	0.0050	0.05	0	97.5	80-120	0			

MS		Sample ID: 1207654-01CMS			Units: mg/L		Analysis Date: 7/20/2012 03:20 AM			
Client ID:		Run ID: ICPMS03_120719A			SeqNo: 2866933		Prep Date: 7/19/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04759	0.0050	0.05	0.0003713	94.4	80-120	0			
Barium	0.09165	0.0050	0.05	0.04911	85.1	80-120	0			
Cadmium	0.04648	0.0020	0.05	0.00001045	92.9	80-120	0			
Chromium	0.04662	0.0050	0.05	0.00006316	93.1	80-120	0			
Lead	0.04768	0.0050	0.05	0.0005274	94.3	80-120	0			
Selenium	0.04677	0.0050	0.05	-0.0000616	93.7	80-120	0			
Silver	0.0464	0.0050	0.05	0.00011	92.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: 62759 Instrument ID ICPMS03 Method: SW6020

MSD		Sample ID: 1207654-01CMSD			Units: mg/L		Analysis Date: 7/20/2012 03:25 AM			
Client ID:		Run ID: ICPMS03_120719A			SeqNo: 2866934		Prep Date: 7/19/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04853	0.0050	0.05	0.0003713	96.3	80-120	0.04759	1.96	15	
Barium	0.09302	0.0050	0.05	0.04911	87.8	80-120	0.09165	1.48	15	
Cadmium	0.04701	0.0020	0.05	0.00001045	94	80-120	0.04648	1.13	15	
Chromium	0.04707	0.0050	0.05	0.00006316	94	80-120	0.04662	0.961	15	
Lead	0.04658	0.0050	0.05	0.0005274	92.1	80-120	0.04768	2.33	15	
Selenium	0.04687	0.0050	0.05	-0.0000616	93.9	80-120	0.04677	0.214	15	
Silver	0.04674	0.0050	0.05	0.00011	93.3	80-120	0.0464	0.73	15	

DUP		Sample ID: 1207654-01CDUP			Units: mg/L		Analysis Date: 7/20/2012 03:11 AM			
Client ID:		Run ID: ICPMS03_120719A			SeqNo: 2866931		Prep Date: 7/19/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050	0	0	0	0-0	0.0003713	0	25	
Barium	0.0494	0.0050	0	0	0	0-0	0.04911	0.589	25	
Cadmium	U	0.0020	0	0	0	0-0	0.00001045	0	25	
Chromium	U	0.0050	0	0	0	0-0	0.00006316	0	25	
Lead	U	0.0050	0	0	0	0-0	0.0005274	0	25	
Selenium	U	0.0050	0	0	0	0-0	-0.0000616	0	25	
Silver	U	0.0050	0	0	0	0-0	0.00011	0	25	

The following samples were analyzed in this batch:

1207528-05E	1207528-06E	1207528-07E
1207528-08E	1207528-09E	1207528-10E
1207528-11E	1207528-12E	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R131341 Instrument ID VOA6 Method: SW8260

MBLK		Sample ID: VBLKW-071612-R131341			Units: µg/L			Analysis Date: 7/17/2012 12:36 AM		
Client ID:		Run ID: VOA6_120716C			SeqNo: 2861873		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	52.14	5.0	50	0	104	70-125	0			
Surr: 4-Bromofluorobenzene	49.83	5.0	50	0	99.7	72-125	0			
Surr: Dibromofluoromethane	51.28	5.0	50	0	103	71-125	0			
Surr: Toluene-d8	48.49	5.0	50	0	97	75-125	0			

LCS		Sample ID: VLCSW-071612-R131341			Units: µg/L			Analysis Date: 7/16/2012 11:42 PM		
Client ID:		Run ID: VOA6_120716C			SeqNo: 2861872		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.22	5.0	50	0	98.4	73-121	0			
Ethylbenzene	43.78	5.0	50	0	87.6	80-120	0			
Toluene	52.09	5.0	50	0	104	80-120	0			
Xylenes, Total	153.4	15	150	0	102	80-120	0			
Surr: 1,2-Dichloroethane-d4	49.53	5.0	50	0	99.1	70-125	0			
Surr: 4-Bromofluorobenzene	53.92	5.0	50	0	108	72-125	0			
Surr: Dibromofluoromethane	50.43	5.0	50	0	101	71-125	0			
Surr: Toluene-d8	54.2	5.0	50	0	108	75-125	0			

MS		Sample ID: 1207612-03AMS			Units: µg/L			Analysis Date: 7/17/2012 01:29 AM		
Client ID:		Run ID: VOA6_120716C			SeqNo: 2861875		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	248.5	25	250	0	99.4	73-121	0			
Ethylbenzene	225.8	25	250	0	90.3	80-120	0			
Toluene	227	25	250	0	90.8	80-120	0			
Xylenes, Total	676.3	75	750	0	90.2	80-120	0			
Surr: 1,2-Dichloroethane-d4	248.2	25	250	0	99.3	70-125	0			
Surr: 4-Bromofluorobenzene	253.5	25	250	0	101	72-125	0			
Surr: Dibromofluoromethane	247.7	25	250	0	99.1	71-125	0			
Surr: Toluene-d8	240.2	25	250	0	96.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: R131341 Instrument ID VOA6 Method: SW8260

MSD		Sample ID: 1207612-03AMSD			Units: µg/L			Analysis Date: 7/17/2012 01:56 AM		
Client ID:		Run ID: VOA6_120716C			SeqNo: 2861876		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	231.2	25	250	0	92.5	73-121	248.5	7.22	20	
Ethylbenzene	225.1	25	250	0	90	80-120	225.8	0.303	20	
Toluene	222.7	25	250	0	89.1	80-120	227	1.92	20	
Xylenes, Total	670.4	75	750	0	89.4	80-120	676.3	0.871	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	252.6	25	250	0	101	70-125	248.2	1.73	20	
<i>Surr: 4-Bromofluorobenzene</i>	253.2	25	250	0	101	72-125	253.5	0.095	20	
<i>Surr: Dibromofluoromethane</i>	249	25	250	0	99.6	71-125	247.7	0.517	20	
<i>Surr: Toluene-d8</i>	239.1	25	250	0	95.7	75-125	240.2	0.465	20	

The following samples were analyzed in this batch:

1207528-01A	1207528-02A	1207528-03A
1207528-04A	1207528-05A	1207528-06A
1207528-07A	1207528-08A	1207528-09A
1207528-10A	1207528-11A	1207528-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131461** Instrument ID **WetChem** Method: **SM4500H+ B (Dissolve)**

LCS		Sample ID: WLCSW1-071812-R131461				Units: pH Units		Analysis Date: 7/18/2012 10:00 AM		
Client ID:		Run ID: WETCHEM_120718J			SeqNo: 2864486		Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.04	0.10	6	0	101	90-110	0			

DUP		Sample ID: 1207555-01DDUP				Units: pH Units		Analysis Date: 7/18/2012 10:00 AM		
Client ID:		Run ID: WETCHEM_120718J			SeqNo: 2864489		Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.39	0.10	0	0	0	0-0	3.42	0.881	20	H
Temp Deg C @pH	25.6	0	0	0	0		25.6	0		H

The following samples were analyzed in this batch:

1207528-01H	1207528-02H	1207528-03H
1207528-04H	1207528-05H	1207528-06H
1207528-07H	1207528-09H	1207528-10H
1207528-11H		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131471** Instrument ID **BALANCE1** Method: **M2540D** (**Dissolve**)

MBLK	Sample ID: WBLKW-071712-R131471	Units: mg/L					Analysis Date: 7/17/2012 08:00 AM			
Client ID:	Run ID: BALANCE1_120717E	SeqNo: 2864651	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	U	2.0								

LCS	Sample ID: WLCSW-071712-R131471	Units: mg/L					Analysis Date: 7/17/2012 08:00 AM			
Client ID:	Run ID: BALANCE1_120717E	SeqNo: 2864652	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	86.66	2.0	100	0	86.7	78-120	0			

DUP	Sample ID: 1207528-11GDUP	Units: mg/L					Analysis Date: 7/17/2012 08:00 AM			
Client ID: MH 11	Run ID: BALANCE1_120717E	SeqNo: 2864673	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	13690	2.0	0	0	0	0-0	12620	8.13	20	

The following samples were analyzed in this batch:

1207528-01G	1207528-02G	1207528-03G
1207528-04G	1207528-06G	1207528-07G
1207528-10G	1207528-11G	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1207528
Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131486** Instrument ID **WetChem** Method: **SM4500H+ B (Dissolve)**

LCS		Sample ID: WLCSW1-071912-R131486				Units: pH Units		Analysis Date: 7/19/2012 09:00 AM		
Client ID:		Run ID: WETCHEM_120719A				SeqNo: 2865352		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.05	0.10	6	0	101	90-110	0			

DUP		Sample ID: 1207685-01FDUP				Units: pH Units		Analysis Date: 7/19/2012 09:00 AM		
Client ID:		Run ID: WETCHEM_120719A				SeqNo: 2865373		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.55	0.10	0	0	0	0-0	6.53	0.306	20	H
Temp Deg C @pH	22.8	0	0	0	0		22.8	0		H

The following samples were analyzed in this batch: 1207528-08H 1207528-12H

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131558** Instrument ID **BALANCE1** Method: **E1664** (**Dissolve**)

MBLK		Sample ID: WMBLKW1--R131558				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720A				SeqNo: 2867119		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	U	2.0								

LCS		Sample ID: WLCSW1--R131558				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720A				SeqNo: 2867118		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	38.57	2.0	40	0	96.4	78-114	0			

MS		Sample ID: 1207470-01HMS				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720A				SeqNo: 2867098		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	34.3	2.0	40	0.2326	85.2	78-114	0			

The following samples were analyzed in this batch:

1207528-01I	1207528-02I	1207528-03I
1207528-04I	1207528-05I	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131566** Instrument ID **Balance1** Method: **M2540D** (**Dissolve**)

MBLK		Sample ID: WBLKW-071712-R131566				Units: mg/L		Analysis Date: 7/17/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120717H				SeqNo: 2867279		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	U	2.0								

LCS		Sample ID: WLCS-R131566				Units: mg/L		Analysis Date: 7/17/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120717H				SeqNo: 2867280		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	112	2.0	100	0	112	78-120	0			

DUP		Sample ID: 1207528-12GDUP				Units: mg/L		Analysis Date: 7/17/2012 08:00 AM		
Client ID: MH 12		Run ID: BALANCE1_120717H				SeqNo: 2867287		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	27800	2.0	0	0	0	0-0	26170	6.04	20	

The following samples were analyzed in this batch:

1207528-05G	1207528-08G	1207528-09G
1207528-12G		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131570** Instrument ID **BALANCE1** Method: **E1664** (**Dissolve**)

MBLK		Sample ID: WMBLKW1--R131570				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720B				SeqNo: 2867376		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	U	2.0								

LCS		Sample ID: WLCSW1--R131570				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720B				SeqNo: 2867372		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	39.49	2.0	40	0	98.7	78-114	0			

MS		Sample ID: 1207564-01BMS				Units: mg/L		Analysis Date: 7/20/2012 08:00 AM		
Client ID:		Run ID: BALANCE1_120720B				SeqNo: 2867326		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	36.67	2.0	40	0.2222	91.1	78-114	0			

The following samples were analyzed in this batch: 1207528-06I 1207528-09I 1207528-10I

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1207528
 Project: US Hwy 6 & Fed. Blvd Bridges Task 4

QC BATCH REPORT

Batch ID: **R131605** Instrument ID **BALANCE1** Method: **E1664** (**Dissolve**)

MBLK		Sample ID: WBLKW1-072012-R131605				Units: mg/L		Analysis Date: 7/20/2012 03:00 PM		
Client ID:		Run ID: BALANCE1_120720E				SeqNo: 2868122		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	U	2.0								

LCS		Sample ID: WLCSW1-072012-R131605				Units: mg/L		Analysis Date: 7/20/2012 03:00 PM		
Client ID:		Run ID: BALANCE1_120720E				SeqNo: 2868123		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	40.2	2.0	40	0	101	78-114	0			

MS		Sample ID: 1207734-19AMS				Units: mg/L		Analysis Date: 7/20/2012 03:00 PM		
Client ID:		Run ID: BALANCE1_120720E				SeqNo: 2868121		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	38.78	2.0	40	0.3333	96.1	78-114	0			

The following samples were analyzed in this batch: 1207528-07I 1207528-08I 1207528-12I

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4
WorkOrder: 1207528

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
°C	Celsius degrees
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
pH Units	

Sample Receipt Checklist

Client Name: **OLSSON ASSOC - GOLDEN**

Date/Time Received: **12-Jul-12 09:30**

Work Order: **1207528**

Received by: **RDN**

Checklist completed by Johanna B. Allen 13-Jul-12
eSignature Date

Reviewed by: Patricia L. Lynch 16-Jul-12
eSignature Date

Matrices: water
 Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.5 C, 2.1 C, 2.3 C, 2.4 C, 1.9 C, 2.3 C/uc 003

Cooler(s)/Kit(s): 5013/2611/5029/4670/2773/ Med Blue/White

Date/Time sample(s) sent to storage: 7/13/12 11:30

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by: -

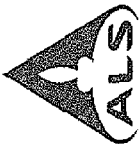
Login Notes: Sample Analyses on Sample Containers does not match COXC; Analyses to be performed are those on Sample Containers per PM

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



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Chain of Custody Form

Page 1 of 2
COC ID: **56121**

1207528

OLSSON ASSOC - GOLDEN: Olsson Associates
Project: US Hwy 6 & Fed. Blvd Bridges Task 4

Environmental

ALS Project Manager:

Customer Information				Project Information													
Purchase Order	Project Name	Project Number	Project Name	A	B	C	D	E	F	G	H	I	J	Hold			
Work Order	Project Name	Project Number	Project Name														
Company Name	Bill To Company	Invoice Attn	Company Name														
Send Report To	Address	City/State/Zip	City/State/Zip														
Address	Address	Phone	Phone														
City/State/Zip	City/State/Zip	Fax	Fax														
Phone	Phone	e-Mail Address	e-Mail Address														
Fax	Fax																
e-Mail Address	e-Mail Address																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MH1	7/10/12	1020	GW		17	X	X	X	X	X						
2	MH2		1100														
3	MH3		1125														
4	MH4		1155														
5	MH5		1230														
6	MH6		1300														
7	MH7		1400														
8	MH8		1430														
9	MH9		1450														
10	MH10		1520														
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:					
Relinquished by: <i>Ben Sawyer</i>				Received by:				Notes: 10 Day TAT									
Relinquished by: <i>Ben Sawyer</i>				Received by Laboratory: <i>ALS</i>				Cooler ID:				Cooler Temp:					
Logged by (Laboratory):				Checked by (Laboratory):				QC Package: (Check One Box Below)				Level II Std OC <input type="checkbox"/>					
												Level III Std OC/New Data <input type="checkbox"/>					
												Level IV SW/MS/CLP <input type="checkbox"/>					
												Other / EDO <input type="checkbox"/>					
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

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Page 2 of 2
COC ID: 56120

Environmental

Customer Information				Project Information				ALS Project Manager:				ALS Work Order #:					
Purchase Order	Project Name	US Hwy 6 & Fed. Blvd Bridges Tank #	A	VOC (8260) BTEX	ALS Work Order #:				ALS Work Order #:								
Work Order	Project Number	A11-2338	B	GRO (8015M)	ALS Project Manager:				ALS Project Manager:								
Company Name	Bill To Company	Cleason Associates	C	DRO (8015M)	ALS Project Manager:				ALS Project Manager:								
Send Report To	Invoice Attn	James Hill	D	Total Metals (8020/7000) RCRA 8 + Fe-Mn-Pb-U-Zn	ALS Project Manager:				ALS Project Manager:								
Address	Address	4890 Table Mountain Drive	E	PAHs (8270) Low-Level	ALS Project Manager:				ALS Project Manager:								
City/State/Zip	City/State/Zip	Golden, CO 80403	F	Measure <u>313</u>	ALS Project Manager:				ALS Project Manager:								
Phone	Phone	(303) 237-2072	G		ALS Project Manager:				ALS Project Manager:								
Fax	Fax	(303) 237-2660	H		ALS Project Manager:				ALS Project Manager:								
e-Mail Address	e-Mail Address		I		ALS Project Manager:				ALS Project Manager:								
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MH11	7/10/12	1550	GW		17	X	X	X	X	X						
2	MH12	7/10/12	1620	GW		17	X	X	X	X	X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
0																	
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:					
Relinquished by: Ben Bergh				Received by: [Signature]				10 Day TAT									
Relinquished by: [Signature]				Received by: [Signature]				10 Day TAT									
Signed by (Laboratory):				Checked by (Laboratory):													
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				Cooler ID				Cooler Temp.				QC Package: (Check One Box Below)					
												<input type="checkbox"/> Level I Std. OC <input type="checkbox"/> Level II Std. OC <input type="checkbox"/> Level III Std. OC <input type="checkbox"/> Level IV SW-846/CLP <input type="checkbox"/> Other / ESD					

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Pat Lynch

From: James Hix [jhix@olssonassociates.com]
Sent: Tuesday, July 17, 2012 10:09 AM
To: Pat Lynch
Subject: RE: 1207528 US Hwy 6 & Fed. Blvd Bridges Task 4

Pat,
We do not need to run the low level PAH or the analysis for Fe, Mn, Mo, and Zn, but everything else looks to be correct.
James

James W. Hix, PG| **Olsson Associates**
4690 Table Mountain Drive, Suite 200 | Golden, CO 80403 | jhix@oaconsulting.com
TEL 303.237.2072 | DIR 303.374.3139 | CELL 303.589.1572 | FAX 303.237.2659



From: Pat Lynch [<mailto:Pat.Lynch@ALSGlobal.com>]
Sent: Monday, July 16, 2012 6:56 PM
To: James Hix
Subject: 1207528 US Hwy 6 & Fed. Blvd Bridges Task 4

James,

We assigned oil & grease, pH & TDS in addition to the analyses listed on the COC based on our conversation and the bottles that were received.

Please see the attached file that contains the sample IDs, test assignment, and costs associated with the recent samples you submitted. Please let me know if you have any changes, otherwise we will proceed as shown. Modifications to the final report, after issue, may incur additional cost.

Regards,
Pat

Patricia L. Lynch

PROJECT MANAGER

ALS I Environmental

ADDRESS

10450 Stancliff Rd, Suite 210

Houston, Texas 77099-4338

Direct Phone #: 281-575-2162

(281) 530-5656

<http://www.alsglobal.com>

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CUSTODY SEAL

Date: 7/11/12 Time: 1000
Name: Ben Baugh
Company: Olsson

Seal Broken By:

Date:

jm This portion can be removed for Recipient's records.

Date: 7/11/12 FedEx Tracking Number: 899652666148

Sender's Name: Ben Baugh Phone: 804 513-0707

Company: Olsson Associates

Address: 4690 Table Mountain Dr

City: Golden State: CO ZIP: 80403

For Internal Billing Reference

242012

242012

Seal broken *

Alabama • Colorado • Florida • Michigan • New York • Ohio
Illinois • Indiana • Iowa • Kansas • Kentucky • Louisiana • Maine
Maryland • Massachusetts • Minnesota • Missouri • Montana
Nebraska • Nevada • New Hampshire • New Jersey • New Mexico
North Carolina • North Dakota • Oklahoma • Oregon • Pennsylvania
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ALS Environmental

Suite 210

CUSTODY SEAL

Date: 7/11/12 Time: 300
Name: Ben Baugh
Company: Olsson

Seal Broken By:

Date:

jm This portion can be removed for Recipient's records.

Date: 7/11/12 FedEx Tracking Number: 899652666111

Sender's Name: Ben Baugh Phone: 804 513-0707

Company: Olsson Associates

Address: 4690 Table Mountain Dr

City: Golden State: CO ZIP: 80403

For Internal Billing Reference

NJK

pmc

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Houston, Texas 77099
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Fax. +1 281 530 5887

CUSTODY SEAL

Date: 7/11/12 Time: 1000
Name: Ben Baugh
Company: Olsson

Seal Broken By:

Date:

jm This portion can be removed for Recipient's records.

Date: 7/11/12 FedEx Tracking Number: 899652666126

Sender's Name: Ben Baugh Phone: 804 513-0707


Company: Olsson Associates

Address: 4690 Table Mountain Dr


City: Golden State: CO ZIP: 80403

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Initials In contents

 ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 7/11/12	Time: 1000	Date:
Name: Ben Bangh		Date: 7/11/12	
Company: Olsson			

This portion can be removed for Recipient's records.
 FedEx Tracking Number: 899670250386
 Date: 7/11/12
 Sender's Name: Ben Bangh (4670) Phone: 804 513-0707
 Company: ~~Olsson Associates~~ Olsson Associates
 Address: 4690 Table Mountain Dr
 Golden State CO ZIP 80403
 Reference

 ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 7/11/12	Time: 1000	Date:
Name: Ben Bangh		Date:	
Company: Olsson			

This portion can be removed for Recipient's records.
 FedEx Tracking Number: 899652668622
 Date: 7/11/12
 Sender's Name: Ben Bangh (2773) Phone: 804 513-0707
 Company: Olsson Associates
 Address: 4690 Table Mountain Dr
 Golden State CO ZIP 80403
 Internal Billing Reference

 ALS Envirc 10450 Stancliff Rd Houston TX	SEAL		Seal Broken By:
	Date: 7/11/12	Time: 1000	Date:
Name: Ben Bangh		Date:	
Company: Olsson Associates MEO B/W			
Address: 4690 Table Mountain Dr			
Golden State CO ZIP 80403			
Internal Billing Reference			

SEAL		Seal Broken By:
Date: 7/11/12	Time: 1000	Date:
Name: Ben Bangh		Date:
Company: Olsson		



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Industrial Laboratories is your independent,
third-party analytical testing laboratory

To: Olsson Associates
4690 Table Mountain Drive
#200
Golden CO 80403

TEST REPORT

OLSSONASSO

Date Received: 7/11/2012

Date Reported: 7/16/2012

PO Number:

Attn: Ben Baugh

Note: Sample test procedures conform to EPA 40CFR136 requirements.

Lab No.	Sample Description	Test Method	Result	Units	MDL	Analysis Date/By
120711001-01A	MH1, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012
120711001-02A	MH2, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012
120711001-03A	MH3, 7/10/12	* Escherichia coli SM 9221 F	2	MPN/100mL		GH 7/11/2012
120711001-04A	MH5, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		RJ 7/11/2012
120711001-05A	MH6, 7/10/12	* Escherichia coli SM 9221 F	4	MPN/100mL		GH 7/11/2012
120711001-06A	MH7, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		RJ 7/11/2012
120711001-07A	MH8, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012
120711001-08A	MH9, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012

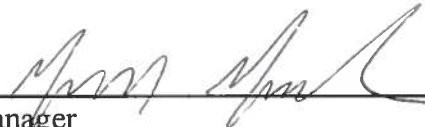
* = Scope Analysis

= Subcontracted Analysis

MDL = Method Detection Limit

ND = Not Detected at the Method Detection Limit

Page: 1 of 2


Department Manager



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To: Olsson Associates
4690 Table Mountain Drive
#200
Golden CO 80403

TEST REPORT

OLSSONASSO

Date Received: 7/11/2012

Date Reported: 7/16/2012

PO Number:

Attn: Ben Baugh

Note: Sample test procedures conform to EPA 40CFR136 requirements.

Lab No.	Sample Description	Test Method	Result	Units	MDL	Analysis Date/By
120711001-09A	MH10, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012
120711001-10A	MH12, 7/10/12	* Escherichia coli SM 9221 F	2	MPN/100mL		GH 7/11/2012
120711001-11A	MH11, 7/10/12	* Escherichia coli SM 9221 F	<2	MPN/100mL		GH 7/11/2012

Department Manager

* = Scope Analysis
= Subcontracted Analysis
MDL = Method Detection Limit
ND = Not Detected at the Method Detection Limit

Page: 2 of 2

ATTACHMENT D
SITE PHOTOGRAPHS



Subject: Monitoring Hole MH-1 was located in Barnum Park Southwest Corner of U.S. Highway 6 and Federal Boulevard. The proposed location (white spray paint/whisker) was near an irrigation line (blue spray paint line), so it was moved approximately another foot east.

Date: 06/20/12

View: North



Subject: Photograph shows monitoring hole MH-1 completion. MH-1 was completed using a flush-mounted well cover grouted in place and was low enough to not interfere with mowing.

Date: 06/20/12

View: Northeast



Subject: Monitoring Hole MH-2 was located in Barnum Park East on the southeast corner of U.S. Highway 6 and Federal Boulevard. Irrigation water lines (blue spray paint) were located close to the proposed MH-2 location, so it was moved approximately 8 feet to the east.

Date: 06/20/12

View: Northeast



Subject: Photograph shows the location of MH-2 in Barum Park East on the west side of the baseball fields.

Date: 06/20/12

View: North



Subject: Monitoring Hole MH-12 was located on CDOT property on the north side of U.S. Highway 6 and to the east of the Denver Public Schools school bus facility. Drill cuttings were placed on plastic and were covered adjacent to the MH-12 location. All of the wells were completed with flush-mounted well covers.

Date: 06/20/12

View: South



Subject: Photograph shows the location of soil drums staged near MH-12 on CDOT property and concrete wash out area. The soil cuttings were removed from the temporary wells (MH-1 through MH-4) drilled in Barnum Park. The Denver Public Schools property is shown at the top of the hill.

Date: 06/20/12

View: West



Subject: Monitoring Hole, MH-3, was located on the south side of Barnum Park East near West 5th Avenue and the on-ramp to east bound U.S. Highway 6. Traffic control was set up for the shoulder work.

Date: 06/21/12

View: South



Subject: Photograph shows the drilling of MH-3 along west 5th Avenue, East Barnum Park, Denver, CO.

Date: 06/21/12

View: Southeast



Subject: Photograph shows monitoring hole, MH-4, location on the southeast side of the Barnum Park baseball fields and West 5th Avenue and the on-ramp to east bound U.S. Highway 6.

Date: 06/21/12

View: Northeast



Subject: Photograph shows the MH-4 location near the curb along West 5th Avenue.

Date: 06/21/12

View: Southwest



Subject: Photograph shows the location of monitoring hole, MH-5, located near the on-ramp to east bound U.S. Highway 6 and northeast of the Barnum Park East baseball fields (background).

Date: 06/21/12

View: Southwest



Subject: Photograph taken from the location of monitoring hole MH-5 toward the MH-6 location.

Date: 06/21/12

View: East



Subject: Photograph shows the location of monitoring hole, MH-6, on the south side of east bound U.S. Highway 6 and east of the on-ramp. The topography slopes to the east and southeast.

Date: 06/22/12

View: East



Subject: Photograph shows the MH-6 location and the hill slope to the south. The U.S. Highway 6 onramp is shown in the background. There were fiber optic lines belonging to CDOT marked in the area of MH-6.

Date: 06/22/12

View: West



Subject: Photograph shows the location of monitoring hole, MH-7, located on the eastern tip of the median separating the off-ramp and west bound U.S. Highway 6. The MH-7 location was downhill from the Denver Public Schools bus facility.

Date: 06/22/12

View: North



Subject: Photograph shows the location of MH-7 on the median between U.S. Highway 6 west bound (left) and the off-ramp to north bound Federal Boulevard (right) and the Denver Public Schools bus facility.

Date: 06/22/12

View: West



Subject: Photograph shows the location of MH-8 located at the bottom of the hill slope on the north side of west bound U.S. Highway 6, to the east of Federal Boulevard and the Days Inn motel property, and south of the off-ramp to north bound Federal Boulevard, and the Denver Public Schools school bus facility.

Date: 06/22/12

View: West



Subject: Photograph shows the MH-8 location on the north side of U.S. Highway 6. Drill cuttings were stored on plastic.

Date: 06/22/12

View: East



Subject: Monitoring hole, MH-9, was located downhill from the Days Inn Motel sign on the north side of U.S. Highway 6 west bound, and south of the off-ramp to north bound Federal Boulevard.

Date: 06/25/12

View: North



Subject: Photograph shows the location of MH-9 along the north side of west bound U.S. Highway 6. The soil drill cuttings were stored on plastic.

Date: 06/25/12

View: West



Subject: Photograph was taken from the MH-9 location looking along U.S. Highway 6 west and east bound lanes.

Date: 06/25/12

View: East



Subject: The location of monitoring hole MH-11 was inside the fence on the northwest corner of the CDOT that is bound to the west by Federal Boulevard, to the south east, and northeast by the Days Inn motel property, and to the north by a parking lot.

Date: 06/25/12

View: South-southwest



Subject: The CDOT property where MH-11 was located was partially paved with asphalt, and partially unpaved.

Date: 06/25/12

View: Northeast



Subject: Photograph shows the location of MH-11 on the northwest corner of the CDOT property. Drill soil cuttings were stored on plastic.

Date: 06/25/12

View: North



Subject: Photograph shows the location of monitoring hole, MH-10, located on the northwest corner of Federal Boulevard and U.S. Highway 6.

Date: 06/25/12

View: South



Subject: Monitoring hole, MH-10, was located near baseball fields on the northwest corner of Federal Boulevard and U.S. Highway 6. The temporary well was installed as a flush-mounted well on the west side of the sidewalk.

Date: 06/25/12

View: Northwest



Subject: Photograph shows the hill slope adjacent to MH-10. The drill cuttings were drummed since the well was located in Barnum Park.

Date: 06/25/12

View: Northeast

APPENDIX 1

Initial Site Assessment (ISA)

ISA Detailed Discussion

Introduction

The proposed project consists of replacing the bridge on U.S. Highway 6 over the BNSF Railway (BNSF) railroad in the City and County of Denver. Wilson and Company has been retained to evaluate project alternatives, grading and foundation plans for this project. It is anticipated that all work will be completed within Colorado Department of Transportation (CDOT) right of way (ROW).

Methods

Pinyon has completed an Initial Site Assessment (ISA) of the study area to evaluate the potential for hazardous materials or petroleum products that may have been released into the subsurface to impact the project. Pinyon utilized the ISA methods developed by the Colorado Department of Transportation (CDOT) to complete this assessment. The following was conducted for the project:

- Reconnaissance survey of the Site and surrounding area on August 22, 2011, to evaluate present conditions;
- Review of the compliance history of the Site, and of any adjacent sites, as identified by an environmental regulatory database search (Satisfi, Inc.);
- Review of records reasonably available from appropriate federal, state and local regulatory agencies for documented soil and/or ground-water contamination investigations conducted at the Site and the vicinity, as identified by an environmental regulatory database search (Satisfi, Inc.);
- Review of historic Sanborn fire insurance maps;
- Paint samples for the analysis of lead were collected from areas of the steel beams underneath the bridge, near the top of the bridge abutment. The paint samples were collected using a chisel or a knife. Each sample was logged on a field sampling form. Four colors of paint were observed: silver, red, brown and gray. The following nomenclature was assigned to the samples:
 - PC-1: silver paint the bridge beams
 - PC-2: red paint on the bridge beams
 - PC-3: brown paint on the bridge beams
 - PC-4: gray paint on the bridge beams

One paint chip sample of each color of paint identified from the bridge was collected and submitted to Reservoirs Environmental Laboratory (Reservoirs) for lead analysis. Reservoirs is accredited by the American Industrial Hygiene Association for metals analysis through the Environmental Lead Proficiency Analytical Testing (ELPAT)-Environmental Lead Laboratory Accreditation Program for environmental samples and Proficiency Analytical Testing (PAT) - Industrial Hygiene Laboratory Accreditation

ISA Detailed Discussion

Program for industrial Hygiene samples. Reservoirs operates under AIHA Certificate #480 and laboratory ID #101533. The samples were analyzed using the Atomic Absorption Spectroscopy (AAS)/Atomic Spectroscopy (AES)/Atomic Emission Spectroscopy - Inductively coupled Plasma (AES-ICP).

- A sample was collected from a suspect material (caulking on south bridge pier) observed on the bridge for analysis of asbestos. The asbestos sampling was completed by an Environmental Protection Agency (EPA) accredited Asbestos Hazard Emergency Response Act ((AHERA); 40 CFR763) and state of Colorado certified inspector. The sample was collected following AHERA procedures using a utility knife. The sample was assigned a unique number and logged on a field sampling form.

The asbestos sample was then delivered to Reservoirs. A chain-of-custody form was submitted with the samples. Reservoirs is certified by the National Institute of Standards and Technology (NIST) and is a participant under the National Voluntary Laboratory Accreditation Program (NVLAP). The asbestos sample was analyzed using polarized light microscopy (PLM).

- Based on preliminary research completed in support of this ISA, Pinyon collected ground-water samples from two soil borings that were completed in support of a the geotechnical investigation by Geocal, Inc. (Geocal). The borings, B-1 and B-6, were located at the location of future deep excavation areas, (e.g., bridge caissons) (Figure 2). Boring B-1 was drilled and sampled on October 31, 2011, and is located down-gradient of the bridge, and boring B-6 was drilled and sampled on November 9, 2011, and is located up-gradient of the bridge. The following methods were utilized to collect ground-water samples:
 - Drilling was subcontracted by Geocal using hollow-stem auger (HSA) techniques. Water was encountered at a depth of approximately 35 feet below ground surface (bgs) in each boring. After advancing to a depth of 40 feet bgs, a ground-water sample was collected from each of the two borings from within the drill augers using disposable bailers.
 - Each sample was containerized in appropriate bottles provided by the analytical laboratory, labeled, and placed on ice in a cooler. The samples were submitted to TestAmerica of Arvada, Colorado, for analysis of typical dewatering parameters utilizing Clean Water Act parameters, including volatile organic compounds (VOCs) by EPA Method 624, semi-volatile organic compounds (SVOCs) by EPA Method 625, and potentially dissolved metals and total recoverable metals by EPA Methods 200.7, 200.8 and 254.1. Metals included the following: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium (III and VI), copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, uranium and zinc. Samples were also analyzed for total suspended and

ISA Detailed Discussion

dissolved solids (TSS and TDS, respectively), by method SM20 2540C and D, respectively.

The following attachments are made part of this ISA:

1. Satisfi, Inc. Environmental FirstSearch Database, dated May 26, 2011
2. Figure 1 – Site Location
3. Figure 2 – Site Plan
4. Table 1 – Details of Identified Agency Listings
5. Table 2 – Ground-Water Analytical Results and Surface-Water Discharge Permit Limits – Metals Parameters
6. Table 3 – Ground-Water Analytical Detection Results and Surface-Water Discharge Permit Limits – Organics Parameters
7. Table 4 – Ground-Water Analytical Results and Surface-Water Discharge Permit Limits – Other Parameters
8. Reservoirs Environmental, Inc. Lead-Paint Analytical Report, dated August 25, 2011
9. Reservoirs Environmental, Inc. Asbestos Analytical Report, dated August 25, 2011
10. TestAmerica Analytical Report, dated November 11, 2011
11. TestAmerica Analytical Report, dated November 29, 2011
12. Site Photographic Log

Results

The subject property is located in an urbanized and industrial portion of the City and County of Denver. The project area is made up primarily of paved roadways, with a portion of the Site located over BNSF railroad tracks.

Hydrology: The depth to ground water is expected to be between 5 and 14 feet bgs from the bottom of the road embankment near the existing BNSF tracks, (Pinyon, 2001), and deeper from the U.S. 6 roadway due to embankment material thickness. Typically, ground-water flow direction mimics topography; therefore, ground water is expected to flow in a west/northwesterly direction towards the South Platte River (USGS, 1994a and b; USGS, 1996).

Database Facilities: The agency database identified 100 facilities within one mile of the project, based on ASTM search standards. Pinyon reviewed sites that were in close proximity to the study boundaries, with particular emphasis on sites that could have contaminated areas that would be encountered during construction of this project. Of particular concern were sites that could impact the project during deep excavation (i.e., drilling of caissons which would support bridge abutments), or proximate to areas where shallow excavation could occur. During review of the Satisfi database, nine off-site facilities were identified for further discussion. The locations of these facilities are presented on the attached Figure 2. The nomenclature of each facility is consistent with those presented in the Satisfi database. The following is a discussion of each:

8. *590 Quivas Street* – This facility (PPG Industries, Inc.) is an underground storage tank facility (UST) facility and a generator of hazardous waste. One former underground

ISA Detailed Discussion

storage tank operated at the facility. The tank was installed in 1969 and contained 2,000 gallons of gasoline. The tank was last used in 1987, and the closure method is unknown. It is unknown whether there were any releases from the tanks.

The facility is also listed as a former generator for ignitable waste, corrosive waste and spent halogenated solvents. There are no releases or violations reported at the facility for these items. This facility is located up-gradient of the Site; therefore, it is possible that the Site could have been impacted in the event a release occurred and not reported.

9. *1701 West 6th Avenue* – This facility is listed as a Spill facility. The event occurred in October 1997. A caller stated that while digging, ground water came in and diesel fuel was observed on the top of the water. The caller stated that the Site is next to the railroad, and that the railroad has reported several spills in the past. There was no information regarding cleanup activities. This facility is located up-gradient of the Site and it is possible the Site has been impacted.

11. *595 Quivas Street* – This facility is listed as Conrad's Inc., and is a leaking underground storage tank (LUST) and UST facility. The Division of Oil and Public Safety (OPS) website indicates two tanks were installed at an unknown time. One tank was approximately 2,000 gallons in size and the other was an unknown size. Contents of each tank are unknown. A confirmed release was reported at the Site in 1996. The OPS issued a closure letter for the facility on August 14, 1997; therefore, based on cleanup activities to the satisfaction of the lead regulatory agency, the project is not likely to be impacted by this facility.

12. *555 Quivas Street* – This facility, Dupont DeNemours and Co., is listed as a former generator of hazardous waste. The facility is listed as a former generator for ignitable waste, corrosive waste and spent non-halogenated solvents. The facility is no longer reporting as a generator and no spills or releases have been documented. This facility is located up-gradient of the Site; therefore it is possible that the Site could have been impacted in the event a release occurred and not reported.

13. and 21. *4th and Navajo Street* – A Spill was reported at the Southern Pacific Railroad property by a caller who stated that oil was bubbling out of the ground and pooling on a gravel road. There was no information in the database regarding the specific location of this condition, the source of contamination, or cleanup activities. Heavy-rail activities are ongoing east of the project area, over 1,500 feet east of the Site bridge. It is possible that the Site has been impacted by past and/or current rail activities in the vicinity.

24. *5th and Osage Streets* – A LUST was identified in the agency database at this location; however, the OPS files for this facility are incomplete. This facility is potentially located hydro-geologically up-gradient of the Site, and a release from this facility could impact the Site.

ISA Detailed Discussion

25. *490 Osage Street* – A UST and LUST have been recorded at this property. No specific information regarding the UST was identified with the OPS. A release was reported in 1991, and corrective actions followed. The OPS issued a No Further Action letter on October 28, 1993. This facility is located hydro-geologically up-gradient of the Site; however, based on cleanup actions completed, it is not likely to have impacted the Site.

36. *500 Quivas Street* – This facility is listed as a Spill facility. The event occurred in February 1997. The building department stated that during drilling of borings to get soil parameters stained soils and hydrocarbon odors were encountered. There was no information regarding cleanup activities. This facility is located up-gradient of the Site and it is possible the Site has been impacted.

43. *501 Raritan Way* – This facility is listed as a UST and a former generator facility. The UST was operated by Associated Stationer, Inc., and the installation date of the tank is unknown. The OPS indicates that it was removed from the facility in 2001. The tank was approximately 2,000 gallons in size and contents are unknown. No releases have been reported at the facility.

The facility is also listed as Fuji Photo Film USA, is listed as a former generator for silver waste. There are no releases or violations reported at the facility. This facility is located up-gradient of the Site; therefore, it is possible that the Site could have been impacted by this facility.

A significant number of other facilities were reported in the Satisfi database near the subject project (Satisfi); however, based on the status of the listings reviewed, distances, and hydro-geologic relationships of those facilities to the project, it is unlikely that those facilities will impact the project.

Other Site: 6th and Osage – This facility is not listed specifically in the agency database. The City and County of Denver (CCoD) completed an evaluation for the presence of free-phase hydrocarbons reportedly located on ground water in a large area within the project vicinity (CCoD, 2002). It has been reported that at least three ground-water diesel plumes are located in the vicinity of 6th and Osage, all from unknown sources. The CCoD completed an investigation of approximately 74 acres in size east of the subject site, which included collection of several soil and ground-water samples. Investigations indicated that up to three feet of free-phase hydrocarbons are located on ground water, and ground water tends to flow toward the west and the South Platte River. Investigations have also indicated that a storm-water ditch immediately northeast of the subject bridge may have been historically impacted by hydrocarbons, likely the result of ground-water seepage. The results of the investigation indicated the contamination is likely the result of historic releases, most likely the result of historic railroad operations at the Burnham Yard where very large fuel tanks were historically operated, and possibly other sources east of the site. There was no direct investigation completed at the site.

Pinyon contacted Cindy Smith with the Colorado Department of Public Health and Environment (CDPHE) Solid Waste Division, Kelly Jackues with the CDPHE Water Quality Control Division

ISA Detailed Discussion

(WQCD), Walter Avramenko with the CDPHE Hazardous Waste Corrective Action Unit, and Fonda Apostolopoulos with the CDPHE Voluntary Cleanup Program regarding this issue. All indicated that they were aware of the problem, but that the CDPHE did not have the regulatory authority to pursue this issue as a potential responsible party has not been identified, and that the contaminants were likely released prior to most environmental regulations. None were aware of any other specific public information regarding this facility other than the investigation completed by the CCoD.

Sanborn Fire Insurance Maps: Sanborn maps were reviewed; however, Pinyon did not identify any detailed maps for the immediate project area. The map key indicated that the Site and vicinity was a portion of the “Fletchers West Side Subdivision” and the “Middaugh’s Addition” subdivision. The closest detailed maps were located for the area around the rail yards east of the project area.

Lead Paint: Three of the four paint chips collected at the Site contained lead. The silver paint (PC-1) contained lead at 0.07 percent (%); the brown paint (PC-3) contained 7.246% lead; and the gray paint (PC-4) contained lead at 2.693%. Lead was not identified in the red paint (PC-2).

Asbestos-Containing Materials: The caulking identified on the south bridge piers did not contain asbestos.

Ground Water:

Sampling of ground water in the project area was completed to support the application of future dewatering permits which will be required to be obtained by the future contractor. Anytime that ground water is discharged to the surface, the surface water regulations become the overriding limits with regard to levels of contaminants that can be discharged to a surface water body. As such, a broad screen ground-water analysis, including VOCs, SVOCs, total recoverable metals, potentially dissolved metals, TSS and TDS, was conducted. Attached to this ISA are the laboratory analytical reports, including Chain of Custody forms. The following discussion presents the results of the analysis:

- **Metals:** The results of the metals analysis were compared to the CDPHE surface-water standards (Table 2). Based on the project location, discharge will most likely be to Segment 14 of the South Platte River. Based on this information, the first hierarchal regulation is Regulation 38 for inorganic constituents (metals) (CDPHE, 2011a), followed by Regulation 31 (CDPHE, 2011b). Note that only acute standards, and not chronic standards, were examined during this investigation, since the construction project is anticipated to be of limited duration.

If no value was listed for a given metal, table value standards (TVS) from Regulations 31 and 38 for acute aquatic life impacts were used. For example, Segment 14 has a numeric limitation for arsenic, whereas other metals such as cadmium and copper have a TVS from Regulations 31 and 38. If no numeric value from Regulation 38, or acute TVS from Regulations 31 and 38 are given for a specific constituent, then either the Regulation 31 “water+fish” standard or the domestic water-supply (DWS) standard applies, in that order. Most of the Regulation 31 and 38 TVSs are based on a mathematical formula with

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the current stream hardness as the variable. The Metro Wastewater Reclamation District (MWRD) collects regular hardness data from the South Platte River. The nearest sample location to the project area identified is near the confluence of Clear Creek, approximately 100 yards up-river from Clear Creek, and the most recent data available was collected on December 1, 2010. At that time, the hardness was measured at 251 milligrams per liter (mg/L). Therefore, for this project, 251 mg/L was utilized as the variable. It is possible that more recent hardness data is available from another source; however, at the time of this investigation, no other data was identified. Potential permit limits could be amended with more appropriate hardness data, if available.

Ground-water sample results collected at the Site indicate that ground water contains concentrations of aluminum, barium, beryllium, copper, iron, lead, selenium, thallium and zinc at concentrations exceeding potential CDPHE discharge limits (Table 2). It is not clear where the source(s) of these contaminants is; however, it appears that the source(s) is from an off-site and up-gradient location. Elevated metals concentrations in ground water tend to be a persistent problem in the project vicinity, likely the result of various historic industrial land uses.

Elevated concentrations of arsenic were also detected in the samples collected. The concentrations do not exceed potential acute (limited duration) discharge limits. However, depending on the quantity of discharge (e.g., chronic, or long-term discharge), it is possible that a significantly lower permit limit would be enforced by the CDPHE for arsenic. This standard is currently under review by the CDPHE.

- **VOCs:** Four VOCs were detected at concentrations below the laboratory reporting limits, but above the laboratory method detection limits (Table 3). The only compound with a potential permit limit was chloroform. The concentration detected was below the potential permit limit. Chloroform is often detected in ground water; it is often present as the result of leaking potable water lines. The other compounds detected do not currently have permit limits.
- **SVOCs:** Three SVOCs were detected within the project area (Table 3). Two compounds, naphthalene and diethyl phthalate, were detected at concentrations well below potential permit limits. The third compound, bis (2-ethylhexyl) phthalate, was detected at a concentration slightly exceeding the potential permit limit. However, this compound was also detected in the laboratory blank sample at concentrations similar to those detected in the samples submitted (Table 3). This chemical is widely used as a plasticizer in PVC and other plastic products, and is a common laboratory contaminant. Therefore, as the concentrations noted in the ground-water samples and blank samples were similar, it is likely that those detections were not the result of a ground-water issue, but rather the result of a laboratory contaminant, which is not unusual.
- TSS concentrations exceed potential discharge limits, which is not uncommon considering the methods utilized in sample collection. No TDS permit limits are available.

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Conclusions and Recommendations

- No potential on-site contaminant sources that would impact soils were identified during research activities. Soil management recommendations are not deemed necessary.
- VOCs and SVOCs were not detected at concentrations in ground water that would likely require special handling or treatment.
- Significantly elevated metals concentrations were detected in the ground-water samples collected. Therefore, water generated during construction of the project, especially during deep excavations (e.g., tremie displacement of water during drilling of caissons), must be immediately containerized for proper off-site disposal. Ground water must not be allowed to be discharged onto the ground, or into sanitary or storm sewers, or any surface water body or Waters of the State.

Lead-based paint was identified in three of the four paint colors observed on the bridge. Pinyon recommends that the selected contractor be notified that these are painted with lead-based paint. Further, Pinyon recommends that the contractor avoid sanding, cutting, burning, or otherwise causing the release of lead from paint on bridge components. These should be removed carefully and properly recycled. OSHA Regulation 1926.62 should be consulted for worker protection prior to removal of painted components. All painted bridge components should be removed and recycled in accordance with CDOT Specification 250.04.

- The contractor must follow CDOT Specification 250 – Environmental, Health and Safety Management during excavation activities at this project at depths that approach the ground-water level (approximately 35 feet). A Materials Management Plan should be developed by the Contractor which details the methods that will be utilized to manage contaminated groundwater generated during construction activities. The MMP should also address management of soil that is generated which could also be impacted due to contact with groundwater.

References

- CCoD, 2002. “Source Area Evaluation and Site Investigation Report for the 6th and Osage Site, Denver, Colorado,” Prepared by the City and County of Denver Department of Environmental Health, December 27, 2002.
- CDPHE, 2011a. *Regulation No. 38 – Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin (5 CCR 1002-38)*, Colorado Department of Public Health and Environment, Water Quality Control Commission, Effective June 30, 2011.

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CDPHE, 2011b. *Regulation No. 31 – The Basic Standards and Methodologies for Surface Water (5 CCR 1002-31)*, Colorado Department of Public Health and Environment, Water Quality Control Commission, Effective January 1, 2011.

Pinyon, 2001. “Phase II Environmental Site Assessment of Sears Warehouse and Adjacent Property, 701 Osage Street, Denver, Colorado,” Pinyon Environmental Engineering Resources, Inc., August 7, 2001.

USGS, 1994a. “7.5 - Minute Topographic Map, Englewood Quadrangle, Colorado,” United States Geologic Survey, 1964, photorevised 1994.

USGS, 1994b. “7.5 - Minute Topographic Map, Fort Logan Quadrangle, Colorado,” United States Geologic Survey, 1964, photorevised 1994.

USGS, 1996. “Geohydrology of the Shallow Aquifers in the Denver Metropolitan Area, Colorado,” United States Geologic Survey, Atlas HA-736, 1996.

COLORADO DEPARTMENT OF TRANSPORTATION Initial Site Assessment (ISA)	Region No.: 6	Project No.: FBR 0062-026
	Route ID: U.S. 6	Project Code (SA#): 18202

Project Description

Project Name: US 6 Bridge over BNSF Railway
Milepost Begin: NA Milepost End: NA County Name(s): Denver

Location: U.S. 6 over the BNSF Railway, immediately east of Interstate 25, City and County of Denver

Main Project Elements: The proposed project consists of replacing the bridge on U.S. Highway 6 over the BNSF Railway (BNSF) railroad in the City and County of Denver. Wilson and Company has been retained to evaluate project alternatives, grading and foundation plans for this project. It is anticipated that all work will be completed within Colorado Department of Transportation (CDOT) right of way (ROW).

Project Features (Check if applies):
Structure Acquisition Structure Modification Structure Demolition
Easements Utility Relocation Excavation/Drilling Disturbance depth (if known): New ROW
GW Anticipated Yes Unknown Depth to GW (if known) 35 ft GW flow direction (if known): West/NW Dewatering

Records Review & Interview(s)

The following records/sources were used in this assessment ('No' is implied if unchecked):
 ASTM Standard Environmental Record Sources OPS CDPHE CDOT Internal Database
 ASTM Standard Search Radii, or Modified Search Radii:
 Previous Environmental Reports/CDOT Files:
 Other Files/Databases (Assessor, Fire dept., Building, etc.):
Topographic Map(s) Current Date: 1994 Historic - year(s):
Aerial Photograph(s) Current Date: 2010 Historic - year(s): 1993, 1999, 2002, 2003, 2004, 2005, 2006, 2007 and 2008
Sanborn Map(s) Yes - year(s): 1887, 1893, 1904, 1930 and 1951
Local Street Directories Yes - year(s):
Historic land use(s) within the project area (if known): Industrial and railroad-related uses.
Interview(s): Yes
Name/Title/Date/Comments:
Name/Title/Date/Comments:

Site Reconnaissance & Description

Was a visual inspection conducted? No Yes Inspection Date: 8/22/2011
If 'No' document the reason:

Project area and land use(s) description: The project area includes the existing roadway, 6th Avenue, and a BNSF Railway railroad line. Several "camps" and belongings were observed underneath the bridge on the east side.

Industrial Light Industrial Commercial Residential Agricultural Undeveloped Other:

Adjacent land use(s): CDOT right-of-way related to U.S. 6 and Interstate 25 interchange is located west of the subject bridge. North and south of the Site are tracks related to the BNSF. Toward the northeast and southeast are a mixture of commercial and industrial facilities.

Industrial Light Industrial Commercial Residential Agricultural Undeveloped Other: Rail yard

Potential environmental concerns on the immediate project area or directly adjacent to it (select from dropdown menu):

	Project Area	Adjacent	Project Area	Adjacent
Evidence of underground tanks, (pipes, vents, fill caps, etc.)	no	no	Protected/fenced/placarded area(s)	yes
Aboveground storage tank(s)	no	no	Liquid waste (pits, ponds, etc.)	no
Monitoring/Water Well(s)	no	no	Oil Sheen (soil/water)	no
Electrical/Transformer Equipment	no	no	Oil/Gas wells	no
Cistern(s), sump(s), drain(s)	no	no	Mine tailings/waste	no
Barrel(s), drum(s), container(s)	no	no	Painted/Preserved Materials	yes
Stockpile, surface trash, debris	yes	no	Odors	no
Exposed/buried landfill	no	no	Chemical Storage	no
Batteries	no	no	Suspect asbestos containing material	no
Surface Staining	no	no	Suspect methamphetamine lab waste	no
Stressed Vegetation	no	no	Contaminated ground water	yes

Completed by:
Pinyon Environmental Engineering Resources, Inc.
303-980-5200

Findings/Conclusions:

Are known hazardous or other waste sites on or adjacent to the project area, which may affect the project (explain below)? Yes No

Detailed information is presented on attached ISA Detailed Discussion pages (attached).

- No potential on-site contaminant sources that would impact soils were identified during research activities. Soil management recommendations are not deemed necessary.
- Volatile organic compounds and semi-volatile organic compounds were not detected in concentrations in ground water that would likely require special handling or treatment.
- Significantly elevated metals concentrations were detected in the ground-water samples collected. Therefore, water generated during construction of the project, especially during deep excavations (e.g., tremie displacement of water during drilling of caissons), must be immediately containerized for proper off-site disposal. Ground water must not be allowed to be discharged onto the ground, or into sanitary or storm sewers, or any surface water body or Waters of the State.
- Lead-based paint was identified in three of the four paint colors observed on the bridge. Thee selected contractormust be notified that these are painted with lead-based paint. Further, the contractor must avoid sanding, cutting, burning, or otherwise causing the release of lead from paint on bridge components. These should be removed carefully and properly recycled. OSHA Regulation 1926.62 should be consulted for worker protection prior to removal of painted components. All painted bridge components should be removed and recycled in accordance with CDOT Specification 250.04.
- The contractor must follow CDOT Specification 250 – Environmental, Health and Safety Management during excavation activities at this project at depths that approach the ground-water level (approximately 35 feet).

Recommendations:

Materials Management Plan Force Account Modified CDOT Specification(s) Additional Assessment/Investigation *

See attached Detailed Discussion for recommendations.

* - Additional work must be approved by CDOT.

Attachments:

Environmental Database Map	<input checked="" type="checkbox"/>	Yes Satisfi, Inc. Environmental FirstSearch Database, dated April 7, 2011
Modified CDOT Specification(s)	<input type="checkbox"/>	Yes _____
General Plan Note(s)	<input type="checkbox"/>	Yes _____
Site Photographs	<input checked="" type="checkbox"/>	Yes Photographic Log
Maps & Figures	<input checked="" type="checkbox"/>	Yes Figures 1 and 2
Agency File Data	<input type="checkbox"/>	Yes _____
Detailed Discussion	<input checked="" type="checkbox"/>	Yes Attached
Table 1	<input checked="" type="checkbox"/>	Yes Detailed Agency Listings
City Directories	<input type="checkbox"/>	Yes _____
	<input type="checkbox"/>	Yes _____

Completed by (Name and Title): Brian Partington, Pinyon Environmental Engineering Resources, Inc.

Signature: Brian R Partington Date: 12/12/2011 Revised (if necessary): _____

CDOT Environmental Project Manager Approval: _____ Date: _____

Completed by:
 Pinyon Environmental Engineering Resources, Inc.
 303-980-5200

ISA Detailed Discussion

Introduction

The proposed project consists of replacing the bridge on U.S. Highway 6 over the BNSF Railway (BNSF) railroad in the City and County of Denver. Wilson and Company has been retained to evaluate project alternatives, grading and foundation plans for this project. It is anticipated that all work will be completed within Colorado Department of Transportation (CDOT) right of way (ROW).

Methods

Pinyon has completed an Initial Site Assessment (ISA) of the study area to evaluate the potential for hazardous materials or petroleum products that may have been released into the subsurface to impact the project. Pinyon utilized the ISA methods developed by the Colorado Department of Transportation (CDOT) to complete this assessment. The following was conducted for the project:

- Reconnaissance survey of the Site and surrounding area on August 22, 2011, to evaluate present conditions;
- Review of the compliance history of the Site, and of any adjacent sites, as identified by an environmental regulatory database search (Satisfi, Inc.);
- Review of records reasonably available from appropriate federal, state and local regulatory agencies for documented soil and/or ground-water contamination investigations conducted at the Site and the vicinity, as identified by an environmental regulatory database search (Satisfi, Inc.);
- Review of historic Sanborn fire insurance maps;
- Paint samples for the analysis of lead were collected from areas of the steel beams underneath the bridge, near the top of the bridge abutment. The paint samples were collected using a chisel or a knife. Each sample was logged on a field sampling form. Four colors of paint were observed: silver, red, brown and gray. The following nomenclature was assigned to the samples:
 - PC-1: silver paint the bridge beams
 - PC-2: red paint on the bridge beams
 - PC-3: brown paint on the bridge beams
 - PC-4: gray paint on the bridge beams

One paint chip sample of each color of paint identified from the bridge was collected and submitted to Reservoirs Environmental Laboratory (Reservoirs) for lead analysis. Reservoirs is accredited by the American Industrial Hygiene Association for metals analysis through the Environmental Lead Proficiency Analytical Testing (ELPAT)-Environmental Lead Laboratory Accreditation Program for environmental samples and Proficiency Analytical Testing (PAT) - Industrial Hygiene Laboratory Accreditation

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Program for industrial Hygiene samples. Reservoirs operates under AIHA Certificate #480 and laboratory ID #101533. The samples were analyzed using the Atomic Absorption Spectroscopy (AAS)/Atomic Spectroscopy (AES)/Atomic Emission Spectroscopy - Inductively coupled Plasma (AES-ICP).

- A sample was collected from a suspect material (caulking on south bridge pier) observed on the bridge for analysis of asbestos. The asbestos sampling was completed by an Environmental Protection Agency (EPA) accredited Asbestos Hazard Emergency Response Act ((AHERA); 40 CFR763) and state of Colorado certified inspector. The sample was collected following AHERA procedures using a utility knife. The sample was assigned a unique number and logged on a field sampling form.

The asbestos sample was then delivered to Reservoirs. A chain-of-custody form was submitted with the samples. Reservoirs is certified by the National Institute of Standards and Technology (NIST) and is a participant under the National Voluntary Laboratory Accreditation Program (NVLAP). The asbestos sample was analyzed using polarized light microscopy (PLM).

- Based on preliminary research completed in support of this ISA, Pinyon collected ground-water samples from two soil borings that were completed in support of a geotechnical investigation by Geocal, Inc. (Geocal). The borings, B-1 and B-6, were located at the location of future deep excavation areas, (e.g., bridge caissons) (Figure 2). Boring B-1 was drilled and sampled on October 31, 2011, and is located down-gradient of the bridge, and boring B-6 was drilled and sampled on November 9, 2011, and is located up-gradient of the bridge. The following methods were utilized to collect ground-water samples:
 - Drilling was subcontracted by Geocal using hollow-stem auger (HSA) techniques. Water was encountered at a depth of approximately 35 feet below ground surface (bgs) in each boring. After advancing to a depth of 40 feet bgs, a ground-water sample was collected from each of the two borings from within the drill augers using disposable bailers.
 - Each sample was containerized in appropriate bottles provided by the analytical laboratory, labeled, and placed on ice in a cooler. The samples were submitted to TestAmerica of Arvada, Colorado, for analysis of typical dewatering parameters utilizing Clean Water Act parameters, including volatile organic compounds (VOCs) by EPA Method 624, semi-volatile organic compounds (SVOCs) by EPA Method 625, and potentially dissolved metals and total recoverable metals by EPA Methods 200.7, 200.8 and 254.1. Metals included the following: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium (III and VI), copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, uranium and zinc. Samples were also analyzed for total suspended and

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dissolved solids (TSS and TDS, respectively), by method SM20 2540C and D, respectively.

The following attachments are made part of this ISA:

1. Satisfi, Inc. Environmental FirstSearch Database, dated May 26, 2011
2. Figure 1 – Site Location
3. Figure 2 – Site Plan
4. Table 1 – Details of Identified Agency Listings
5. Table 2 – Ground-Water Analytical Results and Surface-Water Discharge Permit Limits – Metals Parameters
6. Table 3 – Ground-Water Analytical Detection Results and Surface-Water Discharge Permit Limits – Organics Parameters
7. Table 4 – Ground-Water Analytical Results and Surface-Water Discharge Permit Limits – Other Parameters
8. Reservoirs Environmental, Inc. Lead-Paint Analytical Report, dated August 25, 2011
9. Reservoirs Environmental, Inc. Asbestos Analytical Report, dated August 25, 2011
10. TestAmerica Analytical Report, dated November 11, 2011
11. TestAmerica Analytical Report, dated November 29, 2011
12. Site Photographic Log

Results

The subject property is located in an urbanized and industrial portion of the City and County of Denver. The project area is made up primarily of paved roadways, with a portion of the Site located over BNSF railroad tracks.

Hydrology: The depth to ground water is expected to be between 5 and 14 feet bgs from the bottom of the road embankment near the existing BNSF tracks, (Pinyon, 2001), and deeper from the U.S. 6 roadway due to embankment material thickness. Typically, ground-water flow direction mimics topography; therefore, ground water is expected to flow in a west/northwesterly direction towards the South Platte River (USGS, 1994a and b; USGS, 1996).

Database Facilities: The agency database identified 100 facilities within one mile of the project, based on ASTM search standards. Pinyon reviewed sites that were in close proximity to the study boundaries, with particular emphasis on sites that could have contaminated areas that would be encountered during construction of this project. Of particular concern were sites that could impact the project during deep excavation (i.e., drilling of caissons which would support bridge abutments), or proximate to areas where shallow excavation could occur. During review of the Satisfi database, nine off-site facilities were identified for further discussion. The locations of these facilities are presented on the attached Figure 2. The nomenclature of each facility is consistent with those presented in the Satisfi database. The following is a discussion of each:

8. *590 Quivas Street* – This facility (PPG Industries, Inc.) is an underground storage tank facility (UST) facility and a generator of hazardous waste. One former underground

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storage tank operated at the facility. The tank was installed in 1969 and contained 2,000 gallons of gasoline. The tank was last used in 1987, and the closure method is unknown. It is unknown whether there were any releases from the tanks.

The facility is also listed as a former generator for ignitable waste, corrosive waste and spent halogenated solvents. There are no releases or violations reported at the facility for these items. This facility is located up-gradient of the Site; therefore, it is possible that the Site could have been impacted in the event a release occurred and not reported.

9. *1701 West 6th Avenue* – This facility is listed as a Spill facility. The event occurred in October 1997. A caller stated that while digging, ground water came in and diesel fuel was observed on the top of the water. The caller stated that the Site is next to the railroad, and that the railroad has reported several spills in the past. There was no information regarding cleanup activities. This facility is located up-gradient of the Site and it is possible the Site has been impacted.

11. *595 Quivas Street* – This facility is listed as Conrad's Inc., and is a leaking underground storage tank (LUST) and UST facility. The Division of Oil and Public Safety (OPS) website indicates two tanks were installed at an unknown time. One tank was approximately 2,000 gallons in size and the other was an unknown size. Contents of each tank are unknown. A confirmed release was reported at the Site in 1996. The OPS issued a closure letter for the facility on August 14, 1997; therefore, based on cleanup activities to the satisfaction of the lead regulatory agency, the project is not likely to be impacted by this facility.

12. *555 Quivas Street* – This facility, Dupont DeNemours and Co., is listed as a former generator of hazardous waste. The facility is listed as a former generator for ignitable waste, corrosive waste and spent non-halogenated solvents. The facility is no longer reporting as a generator and no spills or releases have been documented. This facility is located up-gradient of the Site; therefore it is possible that the Site could have been impacted in the event a release occurred and not reported.

13. and 21. *4th and Navajo Street* – A Spill was reported at the Southern Pacific Railroad property by a caller who stated that oil was bubbling out of the ground and pooling on a gravel road. There was no information in the database regarding the specific location of this condition, the source of contamination, or cleanup activities. Heavy-rail activities are ongoing east of the project area, over 1,500 feet east of the Site bridge. It is possible that the Site has been impacted by past and/or current rail activities in the vicinity.

24. *5th and Osage Streets* – A LUST was identified in the agency database at this location; however, the OPS files for this facility are incomplete. This facility is potentially located hydro-geologically up-gradient of the Site, and a release from this facility could impact the Site.

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25. *490 Osage Street* – A UST and LUST have been recorded at this property. No specific information regarding the UST was identified with the OPS. A release was reported in 1991, and corrective actions followed. The OPS issued a No Further Action letter on October 28, 1993. This facility is located hydro-geologically up-gradient of the Site; however, based on cleanup actions completed, it is not likely to have impacted the Site.

36. *500 Quivas Street* – This facility is listed as a Spill facility. The event occurred in February 1997. The building department stated that during drilling of borings to get soil parameters stained soils and hydrocarbon odors were encountered. There was no information regarding cleanup activities. This facility is located up-gradient of the Site and it is possible the Site has been impacted.

43. *501 Raritan Way* – This facility is listed as a UST and a former generator facility. The UST was operated by Associated Stationer, Inc., and the installation date of the tank is unknown. The OPS indicates that it was removed from the facility in 2001. The tank was approximately 2,000 gallons in size and contents are unknown. No releases have been reported at the facility.

The facility is also listed as Fuji Photo Film USA, is listed as a former generator for silver waste. There are no releases or violations reported at the facility. This facility is located up-gradient of the Site; therefore, it is possible that the Site could have been impacted by this facility.

A significant number of other facilities were reported in the Satisfi database near the subject project (Satisfi); however, based on the status of the listings reviewed, distances, and hydro-geologic relationships of those facilities to the project, it is unlikely that those facilities will impact the project.

Other Site: 6th and Osage – This facility is not listed specifically in the agency database. The City and County of Denver (CCoD) completed an evaluation for the presence of free-phase hydrocarbons reportedly located on ground water in a large area within the project vicinity (CCoD, 2002). It has been reported that at least three ground-water diesel plumes are located in the vicinity of 6th and Osage, all from unknown sources. The CCoD completed an investigation of approximately 74 acres in size east of the subject site, which included collection of several soil and ground-water samples. Investigations indicated that up to three feet of free-phase hydrocarbons are located on ground water, and ground water tends to flow toward the west and the South Platte River. Investigations have also indicated that a storm-water ditch immediately northeast of the subject bridge may have been historically impacted by hydrocarbons, likely the result of ground-water seepage. The results of the investigation indicated the contamination is likely the result of historic releases, most likely the result of historic railroad operations at the Burnham Yard where very large fuel tanks were historically operated, and possibly other sources east of the site. There was no direct investigation completed at the site.

Pinyon contacted Cindy Smith with the Colorado Department of Public Health and Environment (CDPHE) Solid Waste Division, Kelly Jackues with the CDPHE Water Quality Control Division

ISA Detailed Discussion

(WQCD), Walter Avramenko with the CDPHE Hazardous Waste Corrective Action Unit, and Fonda Apostolopoulos with the CDPHE Voluntary Cleanup Program regarding this issue. All indicated that they were aware of the problem, but that the CDPHE did not have the regulatory authority to pursue this issue as a potential responsible party has not been identified, and that the contaminants were likely released prior to most environmental regulations. None were aware of any other specific public information regarding this facility other than the investigation completed by the CCoD.

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Ground Water:

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Ground-water sample results collected at the Site indicate that ground water contains concentrations of aluminum, barium, beryllium, copper, iron, lead, selenium, thallium and zinc at concentrations exceeding potential CDPHE discharge limits (Table 2). It is not clear where the source(s) of these contaminants is; however, it appears that the source(s) is from an off-site and up-gradient location. Elevated metals concentrations in ground water tend to be a persistent problem in the project vicinity, likely the result of various historic industrial land uses.

Elevated concentrations of arsenic were also detected in the samples collected. The concentrations do not exceed potential acute (limited duration) discharge limits. However, depending on the quantity of discharge (e.g., chronic, or long-term discharge), it is possible that a significantly lower permit limit would be enforced by the CDPHE for arsenic. This standard is currently under review by the CDPHE.

- **VOCs:** Four VOCs were detected at concentrations below the laboratory reporting limits, but above the laboratory method detection limits (Table 3). The only compound with a potential permit limit was chloroform. The concentration detected was below the potential permit limit. Chloroform is often detected in ground water; it is often present as the result of leaking potable water lines. The other compounds detected do not currently have permit limits.
- **SVOCs:** Three SVOCs were detected within the project area (Table 3). Two compounds, naphthalene and diethyl phthalate, were detected at concentrations well below potential permit limits. The third compound, bis (2-ethylhexyl) phthalate, was detected at a concentration slightly exceeding the potential permit limit. However, this compound was also detected in the laboratory blank sample at concentrations similar to those detected in the samples submitted (Table 3). This chemical is widely used as a plasticizer in PVC and other plastic products, and is a common laboratory contaminant. Therefore, as the concentrations noted in the ground-water samples and blank samples were similar, it is likely that those detections were not the result of a ground-water issue, but rather the result of a laboratory contaminant, which is not unusual.
- TSS concentrations exceed potential discharge limits, which is not uncommon considering the methods utilized in sample collection. No TDS permit limits are available.

ISA Detailed Discussion

Conclusions and Recommendations

- No potential on-site contaminant sources that would impact soils were identified during research activities. Soil management recommendations are not deemed necessary.
- VOCs and SVOCs were not detected at concentrations in ground water that would likely require special handling or treatment.
- Significantly elevated metals concentrations were detected in the ground-water samples collected. Therefore, water generated during construction of the project, especially during deep excavations (e.g., tremie displacement of water during drilling of caissons), must be immediately containerized for proper off-site disposal. Ground water must not be allowed to be discharged onto the ground, or into sanitary or storm sewers, or any surface water body or Waters of the State.

Lead-based paint was identified in three of the four paint colors observed on the bridge. Pinyon recommends that the selected contractor be notified that these are painted with lead-based paint. Further, Pinyon recommends that the contractor avoid sanding, cutting, burning, or otherwise causing the release of lead from paint on bridge components. These should be removed carefully and properly recycled. OSHA Regulation 1926.62 should be consulted for worker protection prior to removal of painted components. All painted bridge components should be removed and recycled in accordance with CDOT Specification 250.04.

- The contractor must follow CDOT Specification 250 – Environmental, Health and Safety Management during excavation activities at this project at depths that approach the ground-water level (approximately 35 feet). A Materials Management Plan should be developed by the Contractor which details the methods that will be utilized to manage contaminated groundwater generated during construction activities. The MMP should also address management of soil that is generated which could also be impacted due to contact with groundwater.

References

- CCoD, 2002. “Source Area Evaluation and Site Investigation Report for the 6th and Osage Site, Denver, Colorado,” Prepared by the City and County of Denver Department of Environmental Health, December 27, 2002.
- CDPHE, 2011a. *Regulation No. 38 – Classifications and Numeric Standards for South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin (5 CCR 1002-38)*, Colorado Department of Public Health and Environment, Water Quality Control Commission, Effective June 30, 2011.

ISA Detailed Discussion

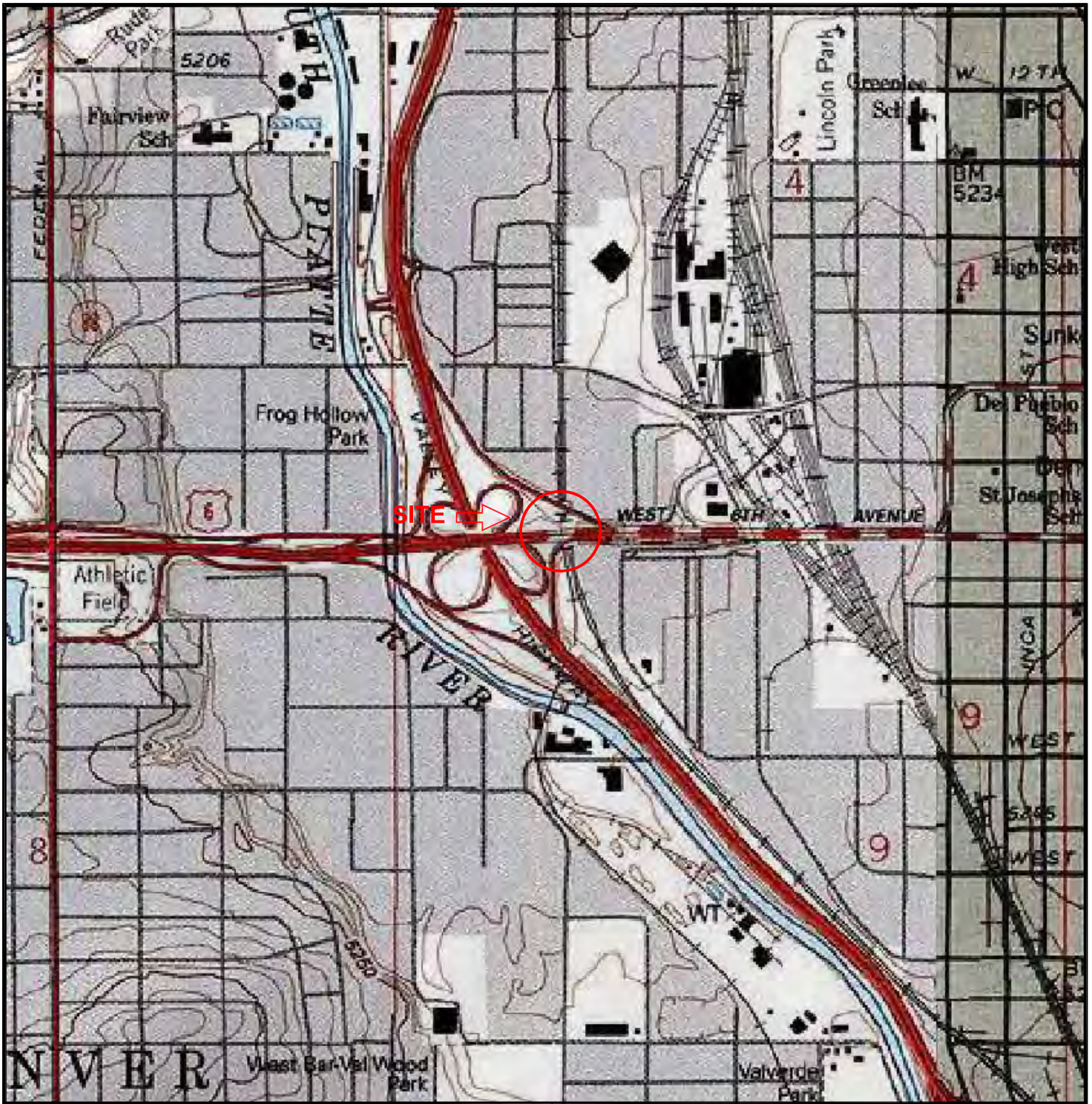
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USGS, 1994a. “7.5 - Minute Topographic Map, Englewood Quadrangle, Colorado,” United States Geologic Survey, 1964, photorevised 1994.

USGS, 1994b. “7.5 - Minute Topographic Map, Fort Logan Quadrangle, Colorado,” United States Geologic Survey, 1964, photorevised 1994.

USGS, 1996. “Geohydrology of the Shallow Aquifers in the Denver Metropolitan Area, Colorado,” United States Geologic Survey, Atlas HA-736, 1996.



LEGEND

USGS 7.5' Topographic Maps
 Englewood 1997
 Fort Logan 1965 (Revised, 1994)



Pinyon Environmental Engineering
 Resources, Inc.

SITE LOCATION

US 6 Bridge over BNSF Railroad
 Denver, Colorado

Site Location: Section 4, Township 4S, Range 68W, 6th Principal Meridian

Drawn By: SLS

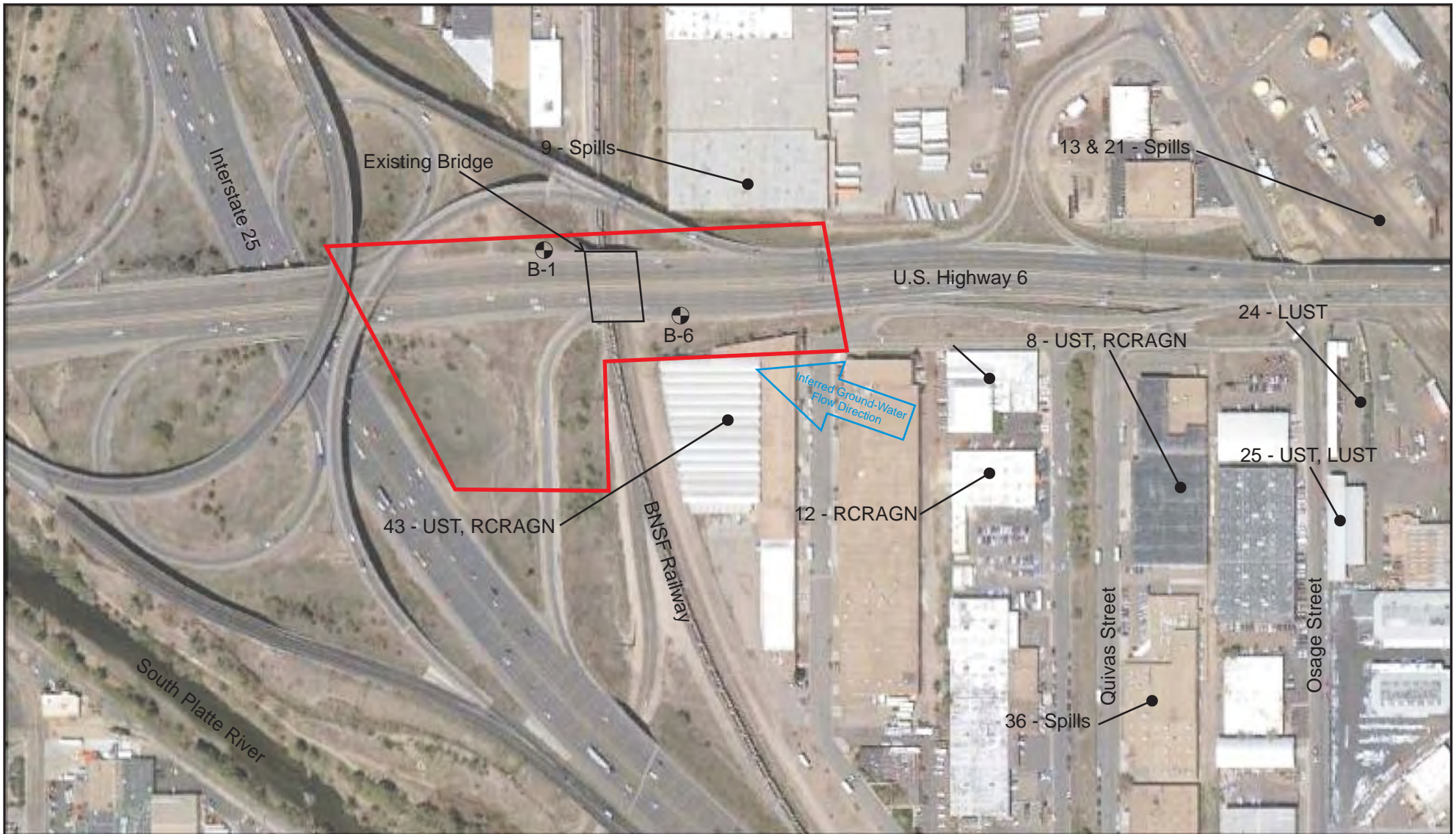
Figure 1

Z:\PROJECTS\11137801\US 6 Bridge over BNSF RRAutocad Figures\Figure1.dwg




Job No. 1/11-378-01.8800

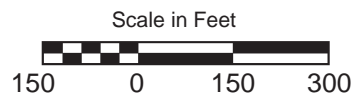
Reviewed By: SML

Revision 0



Legend

-  Study Boundaries
-  9 - Spills Agency Database Listing Number and Type (see Satisfi Database for details)
-  B-1 Boring Where Ground-Water Sample Collected



Pinyon Environmental Engineering Resources, Inc.

SITE PLAN
U.S. 6 Bridge over BNSF
Denver, Colorado

Site Location: Section 4, Township 4 South, Range 68 West, 6th Principal Meridian		Drawn by: BRP	Figure 2
Z:\Projects\11137801 US 6 Bridge over BNSF RR\Initial Site Assessment\14Sept Version\Figure 2.cdr	Job No. 1/11-378*-01.8000	Reviewed by: JNA	Revisions: 0

TABLE 1
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
1	Denver Radium Site 94	Various Places In Denver	>1000 Southeast	NPL	No
2	Regional Transportation District	655 Mariposa St	>1000 East	LUST, RCRAGN, UST	No
3	The Glidden Co	637 Osage St	650 Northeast	RCRAGN	No
4	Union Pacific Rr Co Burnham Shops	680 Seminole Rd	750 Northeast	UST, RCRAGN	No
5	Devoe Paint	657 Osage St	800 Northeast	UST	No
6	Petry Vappi Construction Co	646 Mariposa	1700 East	UST	No
7	Sears Warehouse	701 Osage St	350 Northeast	RCRANLR, UST	No
8	Ppg Industries Inc	590 Quivas St	600 East/southeast	RCRANLR, UST	Yes
9	Unknown	1701 West W. 6Th Ave	Adjacent north	SPILLS	Yes
10	Neiman Salvage Yard	West Just Of 7Th And Mariposa	>1800 East	ERNS	No
11	Conrads Warehouse	595 Quivas	200 Southeast	LUST, UST	Yes

**TABLE 1 (continued)
Details of Identified Agency Listings**

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
12	Dupont De Nemours And Co	555 Quivas St	300 Southeast	RCRANLR	Yes
13	Southern Pacific Railroad	1 North Block Of 4Th And Navajo Str	1600 Southeast	SPILLS	Yes
14	Cook Mechanical Systems	630 Lipan St	2000 East	UST, LUST	No
15	Unknown	1155 West 5Th Ave	1600 East	UST	No
16	S And W Painting And Decorating	575 Lipan St	2000 East	RCRANLR	No
17	Jebco Heating And Air Conditioning	666 Lipan St	2000 East	LUST, UST	No
18	Robert Ohowell Property	550 Lipan St	2000 East	UST	No
19	Denver Radium Site 95	Various Places In Denver	2000 East	NPL	No
20	Mile Hi Body Shop Inc	519 Lipan St	1900 East	RCRAGN	No
21	Incident 343954	1 North Block Of 4Th And Navajo Str	1600 Southeast	ERNS	Yes
22	D And S Wholesale	515 Lipan	2000 Southeast	UST	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
23	Rio Grande Co Residential Products	500 Osage St	1000 East	LUST, UST	No
24	5Th And Osage	5Th And Osage	1000 East	LUST	Yes
25	Champion Fence Co	490 Osage St	1000 East/Southeast	UST, LUST	No
26	Masters Studio	1140 West 5Th Ave	2000 East	UST, LUST	No
27	Roderick R Brown Property	751 Mariposa St	2000 Northeast	UST	No
28	Denver Radium Site 94	Various Places In Denver	1800 East/Southeast	CERCLIS	No
29	Denver Radium Site 95	Various Places In Denver	1800 East/Southeast	CERCLIS	No
30	Neiman S Industrail Recycling	730 Navajo	1700 Northeast	UST, RCANLR	No
31	Incident 209022	1046 West 5Th Ave	2200 East/Southeast	ERNS	No
32	Craig And Assoc	745 Lipan St	2100 East/Northeast	UST, LUST	No
33	Denver And Rio Grand Railroad	West W. 8Th And Osage Ave	1400 North	ERNS	No
34	Denver And Rio Grande Rr	8Th And Osage	1400 North	SPILLS	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
35	7Th And Osage	7Th And Osage	1000 Northeast	LUST, UST	No
36		500 Quivas	900 Southeast	SPILLS	Yes
37	Kalamath Associates Property	570 Kalamath St	2500 East	UST, LUST	No
38	Fuel Facility	775 Mariposa	2100 East	UST	No
39	Stand By Inc	665 Kalamath St	2300 East	UST	No
40	Union Pacific Railroad	800 Seminole Rd	900 Northeast	LUST, RCRANLR, SPILLS, ERNS, UST	No
41		658 Kalamgh	2500 East	ERNS	No
42		West W. 8Th And Mariposa Ave	2000 East/Northeast	SPILLS	No
43	Fuji Photo Film Usa Inc	501 Raritan Way	Adjacent to South	UST, RCRANLR	Yes
44	W Ray Crabb	471 Kalamath	2600 East/southeast	RCRANLR	No
45	B^R Screen Graphics	1045 W 8Th Ave	2500 East/Northeast	RCRAGN	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
46	Us Auto Body And Paint	450 Kalamath St	>2500 East	RCRAGN, RCRANLR	No
47	Adco General Corporation Property	1021 West 8Th Ave	>2500 East	LUST, UST	No
48	Rickenbaugh	444 Kalamath	>2500 East	RCRAGN	No
49	Cintas Corporation	545 Santa Fe Dr	>2500 East	RCRANLR	No
50	6Th And Santa Fe Conoco	571 Santa Fe Dr	>2500 East	LUST, UST	No
51	Boyd Distributing Co	340 Navajo St	2000 Northeast	UST	No
52	Sixth And Santa Fe Car Wash	603 Santa Fe Dr	>2500 East	LUST, UST	No
53	Boyd Distributing	340 Navajo St	2000 Northeast	LUST	No
54	Sherwin-Williams	543 Santa Fe Dr	>2500 East	RCRAGN	No
55	Incident 368399	545 North Santa Fe St	>2500 East	ERNS	No
56	Stafab	860 Navajo	2000 Northeast	SWL	No
57	A-B Petroleum 22	620 Santa Fe Dr	>2500 East	UST	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
58	Carlos 66	800 Kalamath St	>2500 East	UST, LUST	No
59	Known Landfill	South Boundaries Approximate: N Of	1700 South	SWL	No
60	Boyd Distributing Co	350 Osage St	2000 South	LUST	No
61	Stout Street Foundation	875 Navajo St	2000 Northeast	LUST	No
62	Bp Investment	330 Quivas St	1500 South	LUST	No
63	Dick Lesnick	866 Lipan	>2500 East	LUST	No
64	Carter Lubrication Aka Grease Monke	901 West 8Th Ave	>2500 East	LUST	No
65	Murray Distributing Co Inc	1505 West 3Rd Ave	>2500 Southwest	LUST	No
66	Rtd	301 Kalamath St	>2500 Southeast	LUST	No
67	Elms Investment Property	730 Umatilla St	700 North	LUST	No
68	Waste Water Mgmt	3Rd Ave And S Platte River Dr	1200 South	LUST	No
69	740 Investors	740 Umatilla St	850 North	LUST	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
70	Newstrom-Davis Construction Co	2000 West 8Th Ave	1300 North	LUST	No
71	Ts Gas	801 West 8Th Ave	>2500 East	LUST	No
72	Alert Polishing And Plating	345 Santa Fe Dr	>2500 East	RCRACOR	No
73	Known Landfill	West Boundaries Approximate: N: W	1300 South	SWL	No
74	3Rd And Kalamath St Property	300- 304 Kalamath St	>2500 Southeast	LUST	No
75	Lincoln Plating Company	777 Umatilla	1000 North	RCRATSD, RCRACOR	No
76	Industrial Hard Chrome Plating Co.	919 North Santa Fe Dr	>2000 Northeast	NFRAP	No
77	H And M Investments	900 Santa Fe	>2000 Northeast	LUST	No
78	7-Eleven 27620	303 North Santa Fe Dr	>2500 Southeast	LUST	No
79	Lipan Garage	243 Lipan St	>2500 Southeast	LUST	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
80	Wastewater Management Facility	2000 West 3Rd Ave	1200 South	LUST	No
81	Known Landfill	At 4Th And Vallejo St	1000 Southwest	SWL	No
82	10Th And Osage Properties Ii	1001 Osage St	>2500 Northeast	VCP, LUST	No
83	Boys And Girls Club Of Denver	901 Tejon St	>2500 North	LUST	No
84	Heb S Service	2214 West 8Th Ave	>2500 Northwest	LUST	No
85	Denver Radium Site	Various Places In Denver	<2500 Northwest	NPL	No
86	Baker Middle School	574 West 6Th Ave	>2500 East	LUST	No
87	Amick Moving And Storage	1029 Santa Fe Dr	>2500 Northeast	LUST	No
88	Wylaco Supply Co	295 Vallejo	1200 South	LUST	No
89	Denver Radium Site-Ou 9A	Various Places In Denver	>2500 North	NPL	No
90	Adco General Corp	1080 Kalamath	>2500 Northeast	LUST	No

TABLE 1 (continued)
Details of Identified Agency Listings

Site Number ¹	Facility Name	Facility Address	Distance/Direction from Site	Database	Potential to Impact Site? ²
91	Katzson Brothers Inc	960 Vallejo St	>2500 Northwest	RCRACOR	No
92	Gandk Service Incorporated	999 Vallejo St	>2500 Northwest	RCRACOR	No
93	Denver Radium Site 97	Various Places In Denver	>2500 Northwest	NPL	No
94	Denver Radium Site-Ou 7C	Various Places In Denver	>2500 Northwest	NPL	No
95	Denver Radium Site-Ou 7B	Various Places In Denver	>2500 Northwest	NPL	No
96	Denver Radium Site-Ou 10	Various Places In Denver	>2500 Northwest	NPL	No
97	Safety-Kleen Systems Inc	1345 West Bayaud Ave	>2500 Northwest	RCRACOR	No
98	Mallow Plating Works Inc	118 South Pecos St	>2500 Northwest	RCRACOR	No
99	PSCO - Barters Lot C	701 West W. Bayaud Ave	>2500 Southeast	RCRACOR	No
100	Eversman Manufacturing Co	1145 5Th St	>2500 Northwest	RCRACOR	No

Notes:

TABLE 1 (continued)
Details of Identified Agency Listings

- 1 *Four unmappable facilities were identified. Based on the partial address provided, it is unlikely that this facilities are located within the search radius, or would impact the Site.*
- 2 *Potential assessed is based on depth and direction of ground-water flow, and distance from Site.*

Table 2
Ground-Water Analytical Results and Surface-Water Discharge Permit Limits - Metals Parameters
South Platte River Segment 14
U.S. 6 and BNSF, Denver, Colorado

Metals	Sample Location Date Collected				Potential Permit Limit - Acute Values (µg/l)				Formulas for Acute TVS Values (Reg 31) / Other Notes
	B-1 10/31/11		B-6 11/09/11		Hierarchal Limits from Left to Right				
	Total Recoverable (µg/l)	Potentially Dissolved (µg/l)	Total Recoverable (µg/l)	Potentially Dissolved (µg/l)	Reg 38 Numeric	Acute TVS (Reg 31 & 38)	water+fish (Reg 31)	DWS (Reg 31)	
Aluminum	5,700	4,300	130,000	3,700		12,063.12			Acute = $e(1.3695[\ln(\text{hardness})]+1.8308)$ (applies to total recoverable results)
Antimony	0.25 J	<2.0	0.22 J	0.43 J			5.6	6	
Arsenic	55	7.2	58	12	340.00		0.02 ¹	0.02	Note - acute from Reg 38
Barium	1800	1000	2100	510				1,000	Note that only acute Ba level given is DWS
Beryllium	17	6.7	9.5	4.3				4	Note that only acute Be level given is DWS
Cadmium	3.4	1.3	1.6	0.97 J		6.10		5	Acute TVS = $(1.136672-[\ln(\text{hardness}) \times (0.041838)]) \times e(0.9151[\ln(\text{hardness})]-3.1485)$
Chromium III	0.17	NA	0.087	NA	50.00	1210.69		50	Acute TVS = $e(0.819[\ln(\text{hardness})]+2.5736)$
Chromium VI (Hexavalent)	< 0.020	NA	0.0061 J	NA			100	50	
Copper	280	60	120	36	83.16	31.99	1,300	1,000	Acute TVS = $e(0.9422[\ln(\text{hardness})]-1.7408)$ - Reg 38 is TVS*2.6 below Sand Creek Water Reuse Facility Outfall
Iron	4,600	3,100	200,000	7,400				300	note that only acute Fe level given is DWS (in dissolved-phase only), Fe chronic = 1,000*Trec
Lead	250	43	100	27		173.07		50	Acute TVS = $(1.46203-[\ln(\text{hardness}) \times (0.145712)]) \times e(1.273[\ln(\text{hardness})]-1.46)$
Manganese	3,400	1,800	1,300	900		4,056.71		50	Acute TVS = $e(0.3331[\ln(\text{hardness})]+6.4676)$
Mercury	0.17 J	<0.20	0.65	<0.20				2	Note that only acute Hg level given is DWS, Hg chronic = 0.01*Tot
Molybdenum	3.1	2.5	6.2	3.6				210	
Nickel	130	19	62	16		1019.97	610	100	Acute TVS = $e(0.846[\ln(\text{hardness})]+2.253)$
Selenium	7.5	3.7	31	6.3		18.40	170	50	
Silver	0.73 J	<1.0	0.45 J	<1.0		9.88		100	Acute TVS = $\frac{1}{2} e(1.72[\ln(\text{hardness})]-6.52)$
Thallium	3.1	<0.066 U	1.4	<0.066 U			0.24	0.5	Note - chose most stringent acute value
Uranium	58	16	48	30		6,623.65		16.8	Acute TVS = $e(1.1021[\ln(\text{hardness})]+2.7088)$
Zinc	1000	260	420	160		369.48	7400	5,000	Acute TVS = $0.978 e(0.9094[\ln(\text{hardness})]+0.9095)$

Notes:

Hardness-Dependent Value for River Segment = 251 mg/L utilized from MWRD sample located at South Platte River 100 yards upriver from confluence of Clear Creek, collected 12/01/10

Permit Limit highlighted in green
 Value potentially exceeds discharge permit limit

TVS = table value standard

DWS - domestic water supply limit

dis = dissolved

¹ - Depending on the quantity of construction discharge, this may be the permit level

< = indicates a result less than the method detection limit

J = Indicates a result greater than the method detection limit but less than the reporting limit

U = Indicates a result lower than reporting limit and method detection limit

Trec - Total Recoverable

Hg - Reg 38 Numeric is for chronic

NA - Not Applicable

µg/l - micrograms per liter

Table 3
Ground-Water Analytical Detection Results
and Surface-Water Discharge Permit Limits - Organics Parameters
South Platte River Segment 14
U.S. 6 and BNSF, Denver, Colorado

Parameter	Sample Location Date		Potential Permit Limit - Acute Values (µg/l)			
			Hierarchal Limits from Left to Right			
	B-1 10/31/11	B-6 11/9/11	Reg 38 Numeric	Acute TVS (Reg 31 & 38)	water+fish (Reg 31)	DWS (Reg 31)
Volatle Organic Compounds						
Acetone	<20.0	2.5 J	NS	NS	NS	NS
Chloroform	<1.0	0.21 J	NS	NS	3.4	NS
Xylenes (total)	<2.0	0.48 J	NS	NS	NS	NS
Methyl tert butyl ether	2.9 J	<20.0	NS	NS	NS	NS
Semi-Volatile Organic Compounds						
Bis(2-ethylhexyl) phthalate	2.9 J B	2.5 J B	NS	NS	1.2	2.5
Bis(2-ethylhexyl) phthalate (Laboratory Blank Sample Results)	2.7 J	2.6 J	NA	NA	NA	NA
Naphthalene	<0.28 U	0.36 J	NS	NS	140	140
Diethyl phthalate	<0.36 U	0.69 J	NS	NS	5600	5600

Notes:

< = indicates a result less than the method detection limit

J = Indicates a result greater than the method detection limit but less than the reporting limit

B = Compound detected in the blank sample

U = Indicates a result lower than reporting limit and method detection limit

NA - Not Applicable

NS - No Standard

Table 4
Ground-Water Analytical Detection Results
and Surface-Water Discharge Permit Limits - Other Parameters
South Platte River Segment 14
U.S. 6 and BNSF, Denver, Colorado

Parameter	B-1 10/31/11	B-6 11/9/11	Discharge Limit			
			30-day average	7-day average	Daily Max	Method
Total Suspended Solids (mg/l)	12,000	9400	30	45	NA	weekly/grab
Total Dissolved Solids (mg/l)	720	930	NA	NA	Report	monthly/grab

Notes:

I - Field measurement

NA - Not analyzed

mg/l - milligrams per liter

< - below laboratory detection limit

InfoMap

Technologies Incorporated

Environmental FirstSearch™ Report

Target Property: 6TH AVENUE BRIDGE OVER RAILROAD TRACKS

6TH AVENUE BRIDGE

DENVER CO 80204

Job Number: 11137801.3000

PREPARED FOR:

Pinyon Environmental Engineering, Inc

9600 W Jewell Avenue

Lakewood, CO 80232

by Satisfi, Inc

720-200-9472

04-07-11



Tel: (610) 430-7530

Fax: (610) 430-7535

***Environmental FirstSearch
Site Information Report***

Request Date: 04-07-11
Requestor Name: Brian Peterson
Standard: ASTM-05

Search Type: AREA
 0.01 sq mile(s)
Job Number: 11137801.3000
Filtered Report

Target Site: 6TH AVENUE BRIDGE
 DENVER CO 80204

Demographics

Sites: 161	Non-Geocoded: 4	Population: NA
Radon: NA		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-105.004761	-105::17	Easting: 499591.972
Latitude:	39.725922	39:43:33	Northing: 4397128.483
Elevation:	N/A		Zone: 13

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)	Services:
--------------------------------------	------------------

<u>ZIP Code</u>	<u>City Name</u>	<u>ST</u>	<u>Dist/Dir</u>	<u>Sel</u>	<u>Requested?</u>	<u>Date</u>
80203	DENVER	CO	0.83 SE	Y	Fire Insurance Maps	No
80219	DENVER	CO	0.63 SW	Y	Aerial Photographs	No
80223	DENVER	CO	0.01 SW	Y	Historical Topos	No
					City Directories	No
					Title Search/Env Liens	No
					Municipal Reports	No
					Online Topos	No

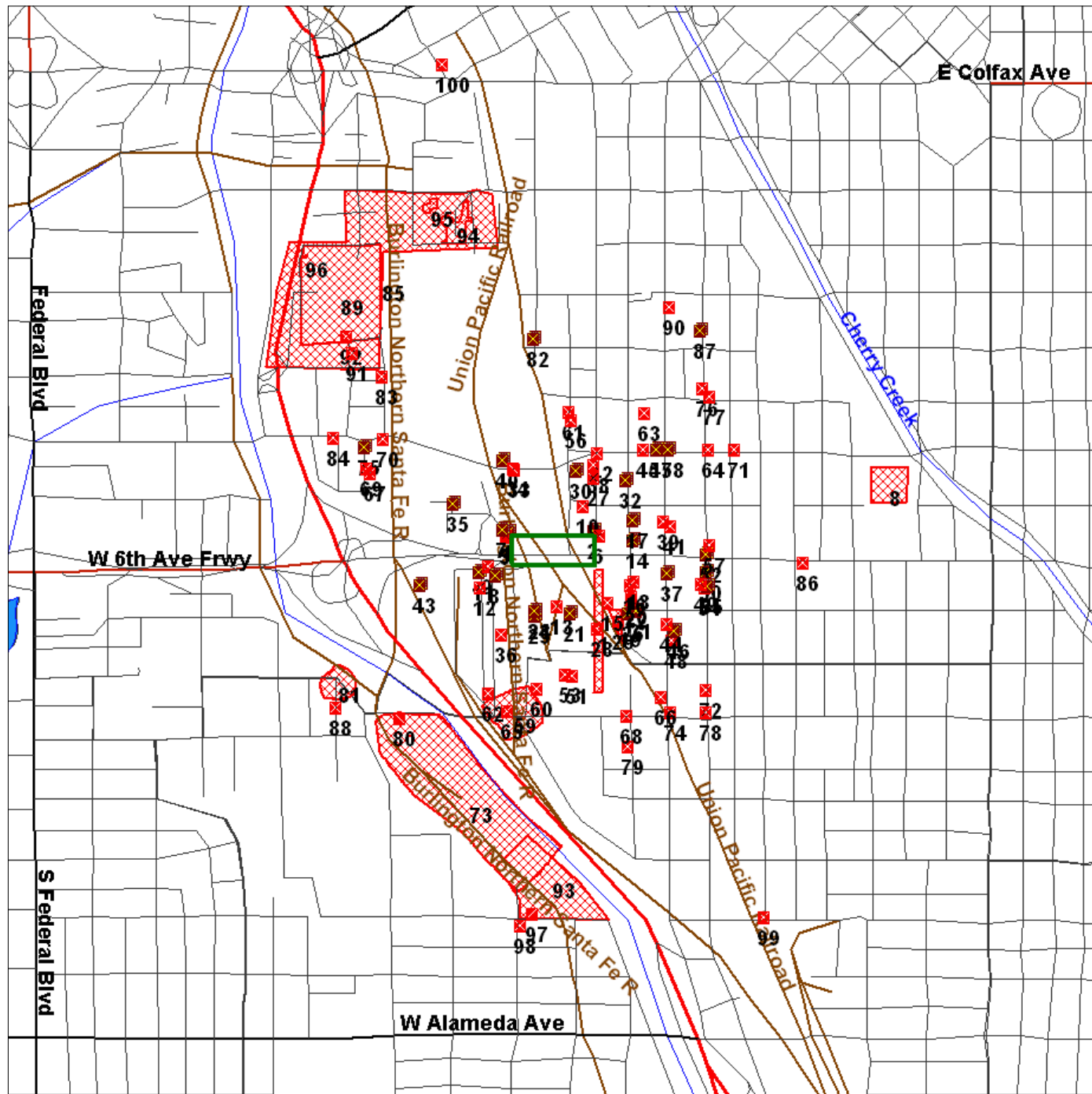


Environmental FirstSearch

1 Mile Radius from Area
Single Map:



6TH AVENUE BRIDGE , DENVER CO 80204



Source: 2005 U.S. Census TIGER Files

Area Polygon	
Identified Site, Multiple Sites, Receptor	
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste	
Triballand.....	
Railroads	

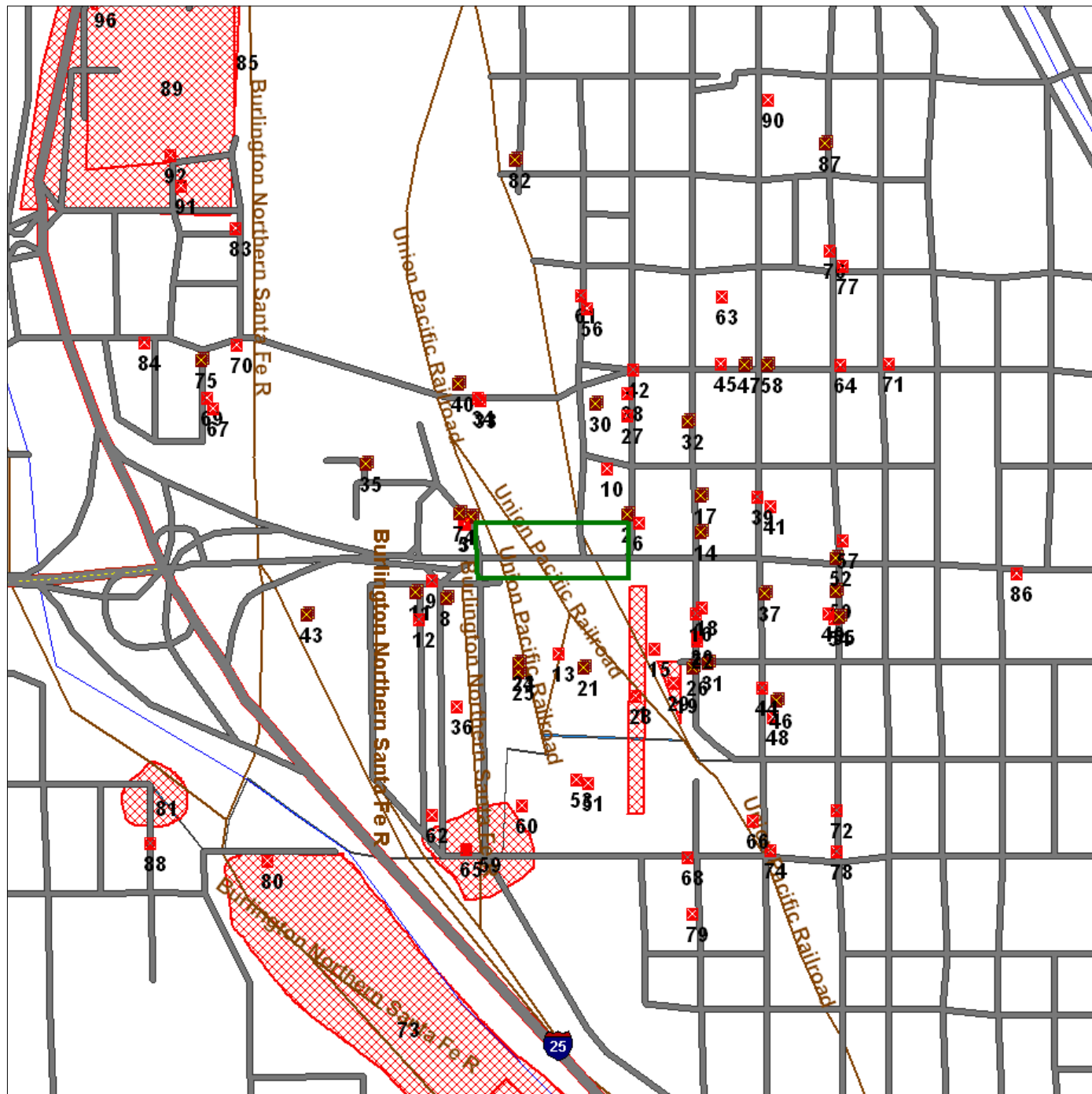


Environmental FirstSearch








.5 Mile Radius from Area
Single Map:



6TH AVENUE BRIDGE , DENVER CO 80204



Source: 2005 U.S. Census TIGER Files

- Area Polygon 
- Identified Site, Multiple Sites, Receptor   
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste 
- Triballand..... 
- Railroads 



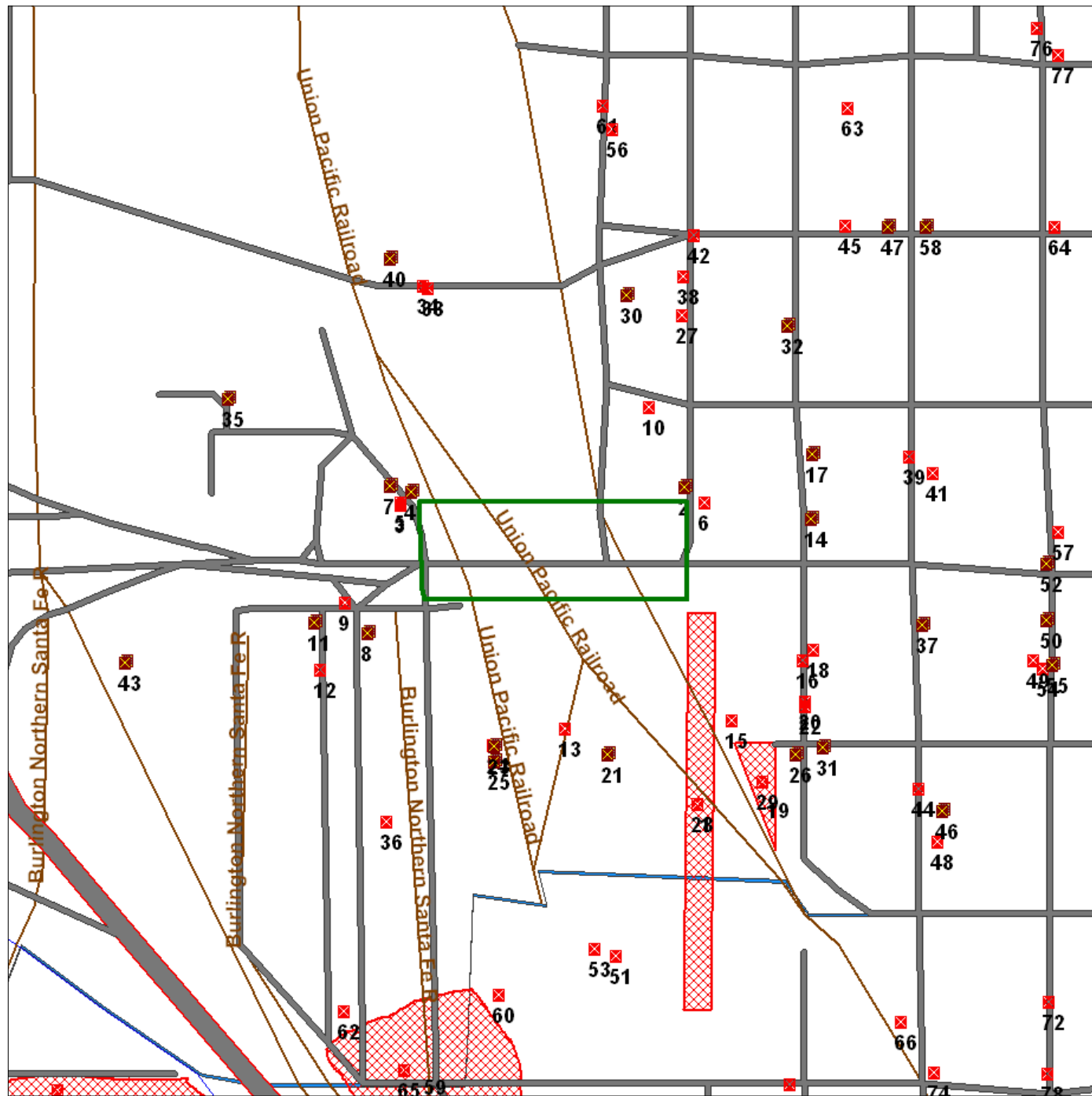
Environmental FirstSearch

.25 Mile Radius from Area

Single Map:



6TH AVENUE BRIDGE , DENVER CO 80204



Source: 2005 U.S. Census TIGER Files

- Area Polygon
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand
- Railroads

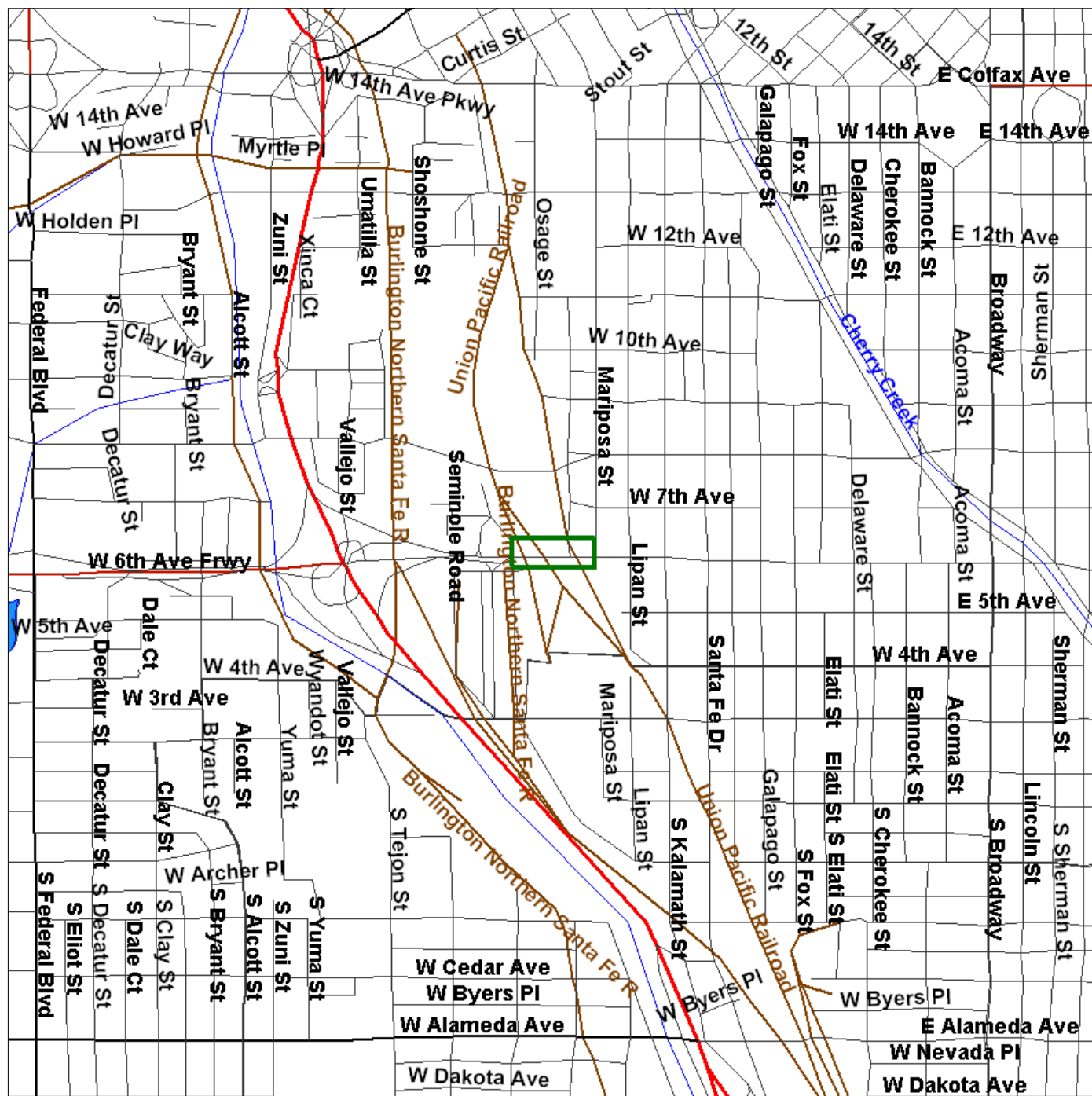


Environmental FirstSearch

1 Mile Radius from Area
Site Locus Map:

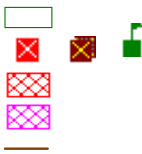


6TH AVENUE BRIDGE , DENVER CO 80204



Source: 2005 U.S. Census TIGER Files

- Area Polygon
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand.....
- Railroads



Environmental FirstSearch

Search Summary Report

Target Site: 6TH AVENUE BRIDGE
DENVER CO 80204

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	01-14-11	1.00	0	2	0	2	4	0	8
NPL Delisted	Y	01-14-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	01-26-11	0.50	0	0	2	0	-	0	2
NFRAP	Y	01-26-11	0.50	0	0	0	1	-	0	1
RCRA COR ACT	Y	01-11-11	1.00	0	0	0	2	6	0	8
RCRA TSD	Y	01-11-11	0.50	0	0	0	1	-	0	1
RCRA GEN	Y	01-11-11	0.25	0	4	4	-	-	0	8
RCRA NLR	Y	01-11-11	0.25	0	4	6	-	-	0	10
Federal Brownfield	Y	03-01-11	0.25	0	0	0	-	-	0	0
ERNS	Y	01-24-11	0.25	0	3	13	-	-	0	16
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	0	0
State/Tribal Sites	Y	08-01-07	1.00	0	0	0	0	0	0	0
State Spills 90	Y	03-31-11	0.25	0	2	14	-	-	0	16
State/Tribal SWL	Y	01-15-05	0.50	0	0	2	2	-	3	7
State/Tribal LUST	Y	04-01-11	0.50	0	8	11	25	-	1	45
State/Tribal UST/AST	Y	04-01-11	0.25	0	21	16	-	-	0	37
State/Tribal EC	Y	04-01-11	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	03-01-11	0.50	0	0	0	2	-	0	2
Federal IC/EC	Y	02-07-11	0.25	0	0	0	-	-	0	0
Meth Labs	Y	02-02-11	0.25	0	0	0	-	-	0	0
- TOTALS -				0	44	68	35	10	4	161

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to InfoMap Technologies, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in InfoMap Technologies's databases. All EPA sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent NPL and state landfill the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

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Environmental FirstSearch Sites Summary Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

TOTAL: 161 **GEOCODED:** 157 **NON GEOCODED:** 4 **SELECTED:** 161

Map ID	Dist/Dir	DB Type	Site Name/ID/Status	Address	ElevDiff	Page No.
1	0.01 SE	NPL	DENVER RADIUM SITE 94 COD980716955L/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	1
2	0.01 N-	LUST	RTD 1058/CLOSED	655 MARIPOSA ST DENVER CO 80204	N/A	6
2	0.01 N-	RCRAGN	RTD - LRT MAINTENANCE FACILITY COD983770488/VGN	655 MARIPOSA DENVER CO 80201	N/A	7
2	0.01 N-	UST	REGIONAL TRANSPORTATION DISTRICT 9494	655 MARIPOSA ST DENVER CO 80204	N/A	8
3	0.01 SW	RCRAGN	THE GLIDDEN CO COR000202747/VGN	637 OSAGE ST DENVER CO 80204	N/A	9
4	0.01 NW	UST	DENVER LOCOMOTIVE SHOP 2293	680 SEMINOLE RD DENVER CO 80204	N/A	10
4	0.01 NW	UST	SPTCO DENVER LOCOMOTIVE PLANT 7431/UST	680 SEMINOLE RD DENVER CO 80204	N/A	12
4	0.01 NW	RCRAGN	UNION PACIFIC RR CO BURNHAM SHOPS COD983790932/VGN	680 SEMINOLE RD DENVER CO 80204	N/A	13
5	0.01 SW	UST	DEVOE PAINT 11260	657 OSAGE ST DENVER CO 80204	N/A	14
6	0.01 -E	UST	PETRY VAPPI CONSTRUCTION CO 2680	646 MARIPOSA DENVER CO 80204	N/A	15
7	0.02 NW	RCRANLR	SEARS ROEBUCK AND COMPANY COD114044506/NLR	701 OSAGE ST DENVER CO 80204	N/A	16
7	0.02 NW	UST	SEARS WAREHOUSE 16080	701 OSAGE ST DENVER CO 80204	N/A	17
8	0.04 SW	RCRANLR	PPG INDUSTRIES INC COD078343613/NLR	590 QUIVAS ST DENVER CO 80204	N/A	18
8	0.04 SW	UST	PPG INDUSTRIES INC 7592	590 QUIVAS ST DENVER CO 80204	N/A	19
9	0.05 SW	SPILLS	UNKNOWN CO97-471	1701 WEST W. 6TH AVE DENVER CO	N/A	20
10	0.06 N-	ERNS	NEIMAN SALVAGE YARD 265078/FIXED FACILITY	WEST JUST OF 7TH and MARIP DENVER/CENTRAL CO 80204	N/A	21
11	0.07 SW	LUST	CONRADS WAREHOUSE 5751/CLOSED	595 QUIVAS DENVER CO 80204	N/A	22
11	0.07 SW	UST	CONRADS INC (CURRENTLY) 7836	595 QUIVAS DENVER CO 80204	N/A	23
11	0.07 SW	UST	CONRADS WAREHOUSE 13770	595 QUIVAS DENVER CO 80204	N/A	24
12	0.08 SW	RCRANLR	DUPONT DE NEMOURS and CO COT090011297/NLR	555 QUIVAS ST DENVER CO 80217	N/A	25
13	0.08 S-	SPILLS	SOUTHERN PACIFIC RAILROAD CO96-182	1 NORTH BLOCK OF 4TH AND NA DENVER CO	N/A	26

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Map ID	Dist/Dir	DB Type	Site Name/ID/Status	Address	ElevDiff	Page No.
14	0.08 -E	UST	BELCON MECHNICAL 12739	630 LIPAN DENVER CO 80204	N/A	27
14	0.08 -E	LUST	BELCON MECHNICAL 3218/CLOSED	630 LIPAN DENVER CO 80204	N/A	27
14	0.08 -E	UST	COOK MECHANICAL SYSTEMS 930	630 LIPAN ST DENVER CO 80204	N/A	28
15	0.08 SE	UST	UNKNOWN 6432	1155 WEST 5TH AVE DENVER CO 80204	N/A	29
16	0.09 SE	RCRANLR	S and W PAINTING and DECORATING COR000220681/NLR	575 LIPAN ST DENVER CO 80204	N/A	30
17	0.09 NE	LUST	JEBCO HEATING and AIR CONDITIONING 8929/CLOSED	666 LIPAN ST DENVER CO 80209	N/A	31
17	0.09 NE	UST	JEBCO HEATING and AIR CONDITIONING 5698	666 LIPAN ST DENVER CO 80209	N/A	31
18	0.09 SE	UST	ROBERT OHOWELL PROPERTY 10795	550 LIPAN ST DENVER CO 80204	N/A	32
19	0.10 SE	NPL	DENVER RADIUM SITE 95 COD980716955M/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	33
20	0.10 SE	RCRAGN	MILE HI BODY SHOP INC COR000217497/VGN	519 LIPAN ST DENVER CO 80204	N/A	38
21	0.10 S-	ERNS	SOUTHERN PACIFIC RAILROAD 495114/UNKNOWN (EPA REGIONS)	1 NORTH BLOCK OF 4TH AND NA DENVER CO	N/A	39
21	0.10 S-	ERNS	INCIDENT 343954 343954-CO	1 NORTH BLOCK OF 4TH AND NA DENVER CO	N/A	40
22	0.10 SE	UST	D and S WHOLESALE 17022	515 LIPAN DENVER CO 80223	N/A	40
23	0.10 S-	LUST	RIO GRANDE CO RESIDENTIAL PRODUCTS 9337/CLOSED	500 OSAGE ST DENVER CO 80204	N/A	41
23	0.10 S-	UST	RIO GRANDE CO RESIDENTIAL PRODUCTS 7940	500 OSAGE ST DENVER CO 80204	N/A	42
24	0.10 S-	LUST	5TH and OSAGE LTT-86/UNKNOWN	5TH and OSAGE DENVER CO	N/A	43
25	0.11 S-	UST	CHAMPION FENCE CO 12817	490 OSAGE ST DENVER CO 80204	N/A	43
25	0.11 S-	UST	SOUTHWEST PROPERTIES 6064	490 OSAGE ST DENVER CO 80216	N/A	44
25	0.11 S-	LUST	CHAMPION FENCE CO 1739/CLOSED	490 OSAGE ST DENVER CO 80204	N/A	44
26	0.12 SE	UST	MASTERS STUDIO 5824	1140 WEST 5TH AVE DENVER CO 80204	N/A	45

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26	0.12 SE	UST	MASTERS STUDIO 12953	1140 WEST 5TH AVE DENVER CO 80204	N/A	46
26	0.12 SE	LUST	MASTERS STUDIO 4740/CLOSED	1140 WEST 5TH AVE DENVER CO 80204	N/A	46
27	0.12 N-	UST	RODERICK R BROWN PROPERTY 10322	751 MARIPOSA ST DENVER CO 80204	N/A	47
28	0.13 SE	CERCLIS	DENVER RADIUM SITE 94 COD980716955L/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	48
29	0.13 SE	CERCLIS	DENVER RADIUM SITE 95 COD980716955M/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	53
30	0.13 N-	UST	NEIMAN INDUSTRIAL RECYCLING 7030	730 NAVAJO ST DENVER CO 80204	N/A	58
30	0.13 N-	RCRANLR	NEIMAN S INDUSTRIAL RECYCLING COD983776832/NLR	730 NAVAJO DENVER CO 80204	N/A	59
31	0.13 SE	ERNS	PUBLIC SERVICE CO OF CO 348502/PIPELINE RELATED	1046 WEST 5TH AVE DENVER CO 80202	N/A	60
31	0.13 SE	ERNS	INCIDENT 209022 209022-CO	1046 WEST 5TH AVE DENVER CO 80202	N/A	61
32	0.13 NE	UST	CRAIG and ASSOC 13855	745 LIPAN ST DENVER CO 80204	N/A	62
32	0.13 NE	LUST	CRAIG and ASSOC 4355/CLOSED	745 LIPAN ST DENVER CO 80204	N/A	63
33	0.14 N-	ERNS	DENVER and RIO GRAND RAILROAD 240183/FIXED FACILITY	WEST W. 8TH and OSAGE AVE DENVER/CENTRAL CO 80204	N/A	64
34	0.14 N-	SPILLS	DENVER and RIO GRANDE RR CO91-287	8TH AND OSAGE DENVER CO 80204	N/A	65
35	0.14 NW	LUST	SEARS ROEBUCK and CO 8481/LUST TRUST	1701 WEST 6TH AVE DENVER CO 80204	N/A	66
35	0.14 NW	UST	SEARS ROEBUCK and CO 3026	1701 WEST 6TH AVE DENVER CO 80204	N/A	67
35	0.14 NW	LUST	7TH and OSAGE LTT-88/UNKNOWN	7TH and OSAGE DENVER CO	N/A	68
36	0.15 SW	SPILLS	CO97-158	500 QUIVAS DENVER CO 80223	N/A	69
37	0.15 SE	UST	FORMER SERVICE STATION 7454	570 KALAMATH DENVER CO 80204	N/A	70
37	0.15 SE	LUST	KALAMATH ASSOCIATES PROPERTY 623/CLOSED	570 KALAMATH ST DENVER CO 80204	N/A	71
37	0.15 SE	UST	KALAMATH ASSOCIATES PROPERTY 13757	570 KALAMATH ST DENVER CO 80204	N/A	71

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38	0.15 N-	UST	FUEL FACILITY 4061	775 MARIPOSA DENVER CO 80204	N/A	72
39	0.15 NE	UST	STAND BY INC 6489	665 KALAMATH ST DENVER CO 80204	N/A	73
40	0.16 NW	LUST	SOUTHERN PACIFIC RAILWAY BURNHAM Y 447/CLOSED	800 SEMINOLE RD DENVER CO 80204	N/A	74
40	0.16 NW	LUST	SOUTHERN PACIFIC RAILWAY - BURNHAM 442/CLOSED	800 SEMINOLE RD DENVER CO 80204	N/A	74
40	0.16 NW	RCRANLR	DENVER and RIO GRANDE WESTERN RAIL COD000706770/NLR	8TH and OSAGE DENVER CO 80204	N/A	75
40	0.16 NW	ERNS	14 EAST NRC-766747/RAILROAD	800 SEMINOLE RD DENVER CO 80204	N/A	76
40	0.16 NW	ERNS	BURN HAM RAIL YARD NRC-803644/RAILROAD	800 SEMINOLE RD DENVER CO 80204	N/A	79
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2009-0038	800 SEMINOLE RD DENVER CO 80204	N/A	82
40	0.16 NW	ERNS	ON THE LOADING DOCK NRC-704760/FIXED	800 SEMINOLE RD DENVER CO 80204	N/A	83
40	0.16 NW	UST	BURNHAM SHOPS 974	800 SEMINOLE RD DENVER CO 80204	N/A	86
40	0.16 NW	ERNS	IN THE RAILYARD OF THE BURHAM SHOP NRC-800346/STORAGE TANK	800 SEMINOLE RD DENVER CO 80204	N/A	89
40	0.16 NW	ERNS	NRC-834088/FIXED	800 SEMINOLE RD DENVER CO 80204	N/A	92
40	0.16 NW	SPILLS	UPRR 2009-0020	800 SEMINOLE RD DENVER CO 80204	N/A	95
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2011-0056	800 SEMINOLE RD, A LOCOMOTI DENVER CO 80204	N/A	96
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2011-0058	800 SEMINOLE ROAD DENVER CO	N/A	97
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2008-0675	800 SEMINOLE RD DENVER CO 80204	N/A	98
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2006-132	800 SEMINOLE RD DENVER CO 80204	N/A	99
40	0.16 NW	SPILLS	PACIFIC ROAD 2004-533	800 SEMINOLE RD DENVER CO 80204	N/A	100
40	0.16 NW	ERNS	UNION PACIFIC RAILROAD NRC-762627/RAILROAD NON-RELEASE	800 SEMINOLE RD DENVER CO 80204	N/A	101
40	0.16 NW	ERNS	NRC-804990/RAILROAD	800 SEMINOLE RD DENVER CO 80204	N/A	104

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40	0.16 NW	SPILLS	UPRR 2010-0504	800 SEMINOLE RD DENVER CO 80204	N/A	107
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2006-665	800 SEMINOLE RD DENVER CO 80204	N/A	108
40	0.16 NW	SPILLS	UNION PACIFIC 2006-538	800 SEMINOLE RD DENVER CO 80204	N/A	109
40	0.16 NW	SPILLS	UNION PACIFIC RAILROAD 2005-450	800 SEMINOLE RD DENVER CO 80204	N/A	110
41	0.16 NE	ERNS	NRC-616229/FIXED	658 KALAMGH DENVER CO	N/A	111
42	0.17 NE	SPILLS	2005-359	WEST W. 8TH and MARIPOSA A DENVER CO	N/A	114
43	0.20 SW	UST	ASSOCIATED STATIONER INC PROPERTY 15421	501 RARITAN WAY DENVER CO 80204	N/A	115
43	0.20 SW	RCRANLR	FUJI PHOTO FILM USA INC COR000204263/NLR	501 RARITAN WAY DENVER CO 80204	N/A	116
44	0.20 SE	RCRANLR	W RAY CRABB COD983800392/NLR	471 KALAMATH DENVER CO 80201	N/A	117
45	0.21 NE	RCRAGN	B^R SCREEN GRAPHICS COR000200618/VGN	1045 W 8TH AVE DENVER CO 80204	N/A	118
46	0.22 SE	RCRAGN	US AUTO BODY and PAINT COD982649626/SGN	450 KALAMATH ST DENVER CO 80204	N/A	119
46	0.22 SE	RCRANLR	US AUTO BODY and PAINT COD982649626/NLR	450 KALAMATH ST DENVER CO 80204	N/A	120
47	0.22 NE	LUST	ADCO GENERAL CORPORATION PROPERTY 7236/CLOSED	1021 WEST 8TH AVE DENVER CO 80204	N/A	121
47	0.22 NE	UST	ADCO GENERAL CORPORATION PROPERTY 14737	1021 WEST 8TH AVE DENVER CO 80204	N/A	121
48	0.23 SE	RCRAGN	RICKENBAUGH COR000001727/SGN	444 KALAMATH DENVER CO 80203	N/A	122
49	0.23 SE	RCRANLR	CINTAS CORPORATION COD032037483/NLR	545 SANTA FE DR DENVER CO 80204	N/A	123
50	0.23 SE	LUST	CONOCO SS 5808/CLOSED	571 SANTA FE DR DENVER CO 80204	N/A	124
50	0.23 SE	UST	6TH and SANTA FE CONOCO 7521	571 SANTA FE DR DENVER CO 80204	N/A	125
51	0.23 S-	UST	BOYD DISTRIBUTING CO 10237	340 NAVAJO ST DENVER CO 80223	N/A	126
52	0.23 -E	LUST	SIXTH and SANTA FE CAR WASH 6587/CLOSED	603 SANTA FE DR DENVER CO 80204	N/A	127

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52	0.23 -E	UST	SIXTH and SANTA FE CAR WASH 5778	603 SANTA FE DR DENVER CO 80204	N/A	128
53	0.23 S-	LUST	BOYD DISTRIBUTING 6994/CLOSED	340 NAVAJO ST DENVER CO 80223	N/A	129
54	0.24 SE	RCRAGN	SHERWIN-WILLIAMS COR000014753/SGN	543 SANTA FE DR DENVER CO 80204	N/A	130
55	0.24 SE	ERNS	PUBLIC SERVICE CO 516056/PIPELINE RELATED	545 NORTH SANTA FE ST DENVER CO 80204	N/A	131
55	0.24 SE	ERNS	INCIDENT 368399 368399-CO	545 NORTH SANTA FE ST DENVER CO	N/A	132
56	0.24 N-	SWL	STAFAB 016-REC-001	860 NAVAJO DENVER CO 80204	N/A	132
57	0.24 -E	UST	A-B PETROLEUM 22 8553	620 SANTA FE DR DENVER CO 80204	N/A	133
58	0.24 NE	UST	CARLOS 66 5335	800 KALAMATH ST DENVER CO 80203	N/A	134
58	0.24 NE	UST	CARLOS 66 12992	800 KALAMATH ST DENVER CO 80203	N/A	135
58	0.24 NE	LUST	CARLOS 66 3013/CLOSED	800 KALAMATH ST DENVER CO 80203	N/A	135
59	0.25 S-	SWL	KNOWN LANDFILL 132/HISTORIC	SOUTH BOUNDARIES APPROXIMAT DENVER CO	N/A	136
60	0.26 S-	LUST	BOYD DISTRIBUTING CO 140/CLOSED	350 OSAGE ST DENVER CO 80223	N/A	137
61	0.26 N-	LUST	STOUT STREET FOUNDATION 3161/STATE LEAD	875 NAVAJO ST DENVER CO 80204	N/A	137
62	0.27 SW	LUST	BP INVESTMENT 3071/CLOSED	330 QUIVAS ST DENVER CO 80223	N/A	138
63	0.28 NE	LUST	DICK LESNICK 1616/CLOSED	866 LIPAN DENVER CO 80204	N/A	138
64	0.30 NE	LUST	CARTER LUBRICATION AKA GREASE MONK 7431/CLOSED	901 WEST 8TH AVE DENVER CO 80204	N/A	139
65	0.31 SW	LUST	MURRAY DISTRIBUTING CO INC 540/CLOSED	1505 WEST 3RD AVE DENVER CO 80223	N/A	139
66	0.31 SE	LUST	RTD 5491/CLOSED	301 KALAMATH ST DENVER CO 80223	N/A	140
67	0.32 NW	LUST	ELMS INVESTMENT PROPERTY 5434/CLOSED	730 UMATILLA ST DENVER CO 80204	N/A	140
68	0.32 SE	LUST	WASTE WATER MGMT 4990/CLOSED	3RD AVE and S PLATTE RIVER DENVER CO 80223	N/A	141

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69	0.33 NW	LUST	740 INVESTORS 2871/CLOSED	740 UMATILLA ST DENVER CO 80204	N/A	141
70	0.34 NW	LUST	NEWSTROM-DAVIS CONSTRUCTION CO 5137/CLOSED	2000 WEST 8TH AVE DENVER CO 80204	N/A	142
71	0.34 NE	LUST	TS GAS 5640/CLOSED	801 WEST 8TH AVE DENVER CO 80204	N/A	142
72	0.35 SE	RCRACOR	ALERT POLISHING AND PLATING COR000016204/CA	345 SANTA FE DR DENVER CO 80223	N/A	143
73	0.35 SW	SWL	KNOWN LANDFILL 135/HISTORIC	WEST BOUNDARIES APPROXIMATE DENVER CO	N/A	143
74	0.35 SE	LUST	3RD AND KALAMATH ST PROPERTY 8922/CLOSED	300- 304 KALAMATH ST DENVER CO 80222	N/A	144
75	0.36 NW	RCRATSD	LINCOLN PLATING COMPANY COD007073901/TSD	777 UMATILLA DENVER CO 80204	N/A	145
75	0.36 NW	RCRACOR	LINCOLN PLATING COMPANY COD007073901/CA	777 UMATILLA DENVER CO 80204	N/A	146
76	0.38 NE	NFRAP	INDUSTRIAL HARD CHROME PLATING CO. CO0001055235/NFRAP-N	919 NORTH SANTA FE DR DENVER CO 80204	N/A	149
77	0.38 NE	LUST	H and M INVESTMENTS 8549/CLOSED	900 SANTA FE DENVER CO 80202	N/A	150
78	0.39 SE	LUST	7-ELEVEN 27620 10926/CLOSED	303 NORTH SANTA FE DR DENVER CO 80223	N/A	150
79	0.39 SE	LUST	LIPAN GARAGE 1214/CLOSED	243 LIPAN ST DENVER CO 80223	N/A	151
80	0.40 SW	LUST	WASTEWATER MANAGEMENT FACILITY 3635/CLOSED	2000 WEST 3RD AVE DENVER CO 80223	N/A	151
81	0.41 SW	SWL	KNOWN LANDFILL 131/HISTORIC	AT 4TH and VALLEJO ST DENVER CO	N/A	152
82	0.41 N-	VCP	10TH AND OSAGE PROPERTIES 080509-2	944 OSAGE ST DENVER CO 80204	N/A	153
82	0.41 N-	LUST	CITY AND COUNTY OF DENVER PROPERTY 10743/CLOSED	1001 OSAGE ST DENVER CO 80204	N/A	154
82	0.41 N-	VCP	10TH AND OSAGE PROPERTIES II 081110-1	1001 OSAGE ST DENVER CO 80204	N/A	155
83	0.43 NW	LUST	BOYS and GIRLS CLUB OF DENVER 1515/CLOSED	901 TEJON ST DENVER CO 80204	N/A	156
84	0.43 NW	LUST	HEB S SERVICE 2403/CLOSED	2214 WEST 8TH AVE DENVER CO 80204	N/A	156
85	0.44 NW	NPL	DENVER RADIUM SITE COD980716955/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	157

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86	0.44 -E	LUST	BAKER MIDDLE SCHOOL 5175/CLOSED	574 WEST 6TH AVE DENVER CO 80204	N/A	162
87	0.48 NE	LUST	AMICK MOVING AND STORAGE 3116/CLOSED	1029 SANTA FE DR DENVER CO 80204	N/A	162
87	0.48 NE	LUST	AMICK MOVING AND STORAGE 9471/CLOSED	1029 SANTA FE DR DENVER CO 80204	N/A	163
88	0.48 SW	LUST	WYLACO SUPPLY CO 1375/CLOSED	295 VALLEJO DENVER CO 80223	N/A	163
89	0.50 NW	NPL	DENVER RADIUM SITE-OU 9A COD980716955H/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	164
90	0.50 NE	LUST	ADCO GENERAL CORP 263/CLOSED	1080 KALAMATH DENVER CO 80204	N/A	169
91	0.51 NW	RCRACOR	KATZSON BROTHERS INC COD031992225/CA	960 VALLEJO ST DENVER CO 80204	N/A	170
92	0.54 NW	RCRACOR	GandK SERVICE INCORPORATED COD983789447/CA	999 VALLEJO ST DENVER CO 80204	N/A	172
93	0.57 S-	NPL	DENVER RADIUM SITE 97 COD980716955N/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	174
94	0.62 NW	NPL	DENVER RADIUM SITE-OU 7C COD980716955F/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	179
95	0.70 NW	NPL	DENVER RADIUM SITE-OU 7B COD980716955E/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	184
96	0.72 NW	NPL	DENVER RADIUM SITE-OU 10 COD980716955I/FINAL	VARIOUS PLACES IN DENVER DENVER CO 80204	N/A	189
97	0.73 S-	RCRACOR	SAFETY-KLEEN SYSTEMS INC COD980954101/CA	1345 WEST BAYAUD AVE DENVER CO 80223	N/A	194
98	0.75 S-	RCRACOR	MALLOW PLATING WORKS INC COD007076813/CA	118 SOUTH PECOS ST DENVER CO 80223	N/A	197
99	0.82 SE	RCRACOR	PSCO - BARTERS LOT C COD982584526/CA	701 WEST W. BAYAUD AVE DENVER CO 80223	N/A	199
100	1.00 NW	RCRACOR	EVERSMAN MANUFACTURING CO COD007064397/CA	1145 5TH ST DENVER CO 80204	N/A	202

***Environmental FirstSearch
Sites Summary Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

TOTAL: 161 **GEOCODED:** 157 **NON GEOCODED:** 4 **SELECTED:** 161

Map ID	Dist/Dir	DB Type	Site Name/ID/Status	Address	ElevDiff	Page No.
<i>NON GC</i>	<i>LUST</i>		<i>TRYND LTT-110/UNKNOWN</i>	<i>TRYND DENVER CO</i>	<i>N/A</i>	<i>205</i>
<i>NON GC</i>	<i>SWL</i>		<i>ALLIED CHEMICALS DENVER, CO 12-0383/HISTORIC</i>	<i>ADDRESS NOT REPORTED DENVER CO</i>	<i>N/A</i>	<i>205</i>
<i>NON GC</i>	<i>SWL</i>		<i>COLORADO DEPT OF HEALTH 12-039/HISTORIC</i>	<i>ADDRESS NOT REPORTED DENVER CO</i>	<i>N/A</i>	<i>206</i>
<i>NON GC</i>	<i>SWL</i>		<i>OLD DENVER CITY SWDS 12-0391/HISTORIC</i>	<i>ADDRESS NOT REPORTED DENVER CO</i>	<i>N/A</i>	<i>207</i>

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 2 **DIST/DIR:** 0.01 SE **ELEVATION:** **MAP ID:** 1

NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA	REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	04-15-2008	09-30-2008
risk/health assessment	EPA Fund-Financed	04-12-2005	10-13-2005
prospective purchaser agreement assessment	Federal Enforcement	11-26-2002	06-03-2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 2 **DIST/DIR:** 0.01 SE **ELEVATION:** **MAP ID:** 1

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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forward planning activity/management assistance	EPA Fund-Financed	09-15-2000	09-27-2000
preparation of cost document package	Federal Enforcement	09-02-2000	10-19-2001
remedial design/remedial action negotiations	Federal Enforcement	06-15-2000	10-10-2001
issue request letters (104e)	Federal Enforcement	03-28-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-02-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-01-2000	03-28-2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	02-28-2000	08-26-2002
community advisory group	Community Organization	01-01-2000	08-16-2006
preparation of cost document package	Federal Enforcement	11-29-1999	01-25-2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11-15-1999	06-16-2000
five-year review	EPA Fund-Financed Primary	06-10-1999	12-21-1999
preparation of cost document package	Federal Enforcement	10-21-1998	12-15-1998
five-year review	EPA Fund-Financed Primary	01-15-1998	09-30-2003
national priorities list responsible party search	Federal Enforcement Primary	03-08-1995	03-30-1995
preparation of cost document package	Federal Enforcement Primary	02-26-1994	07-11-1994
preparation of cost document package	Federal Enforcement Primary	12-31-1993	02-25-1994
potentially responsible party removal Cleaned up	Responsible Party Primary	06-29-1993	08-27-1993

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 2 **DIST/DIR:** 0.01 SE **ELEVATION:** **MAP ID:** 1

NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA	REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707
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five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	04-05-1993	09-12-1994
potentially responsible party remedial action	Responsible Party Primary	03-31-1993	06-16-2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10-26-1992	06-29-1994
potentially responsible party remedial design	Responsible Party Alternate	06-07-1992	03-31-1993
potentially responsible party remedial design	Responsible Party Primary	06-07-1992	06-27-1996
remedial design/remedial action negotiations	Federal Enforcement Primary	01-28-1992	08-21-1992
preparation of cost document package	Federal Enforcement Primary	12-30-1991	02-11-1994
state support agency cooperative agreement	State, Fund Financed Primary	07-25-1991	09-25-2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	07-17-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	09-09-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-11-1991	08-08-1991
national priorities list responsible party search	Federal Enforcement	05-24-1991	05-24-1991
preparation of cost document package	Federal Enforcement Primary	03-30-1991	09-30-1991
national priorities list responsible party search	Federal Enforcement Primary	01-21-1991	07-23-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	06-21-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	05-29-1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 2 **DIST/DIR:** 0.01 SE **ELEVATION:** **MAP ID:** 1

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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state support agency cooperative agreement	Federal Enforcement Primary	08-06-1990	09-29-1992	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-01-1988	09-12-1988	
state support agency cooperative agreement	State, Fund Financed Primary	02-12-1988	07-20-1989	
potentially responsible party remedial design	Responsible Party Primary	12-11-1987	03-01-1990	
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	08-03-1987	03-31-1988	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-22-1987	08-25-1987	
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	04-30-1987	06-29-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	03-24-1987	06-02-1987	
national priorities list responsible party search	Federal Enforcement Primary	09-12-1986	03-01-1990	
national priorities list responsible party search	Federal Enforcement	05-08-1986	01-16-1987	
state support agency cooperative agreement	State, Fund Financed Primary	04-10-1986	04-11-1991	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	05-08-1986	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	01-16-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11-26-1984	01-16-1985	
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	01-03-1984	01-03-1984	
state support agency cooperative agreement	State, Fund Financed Primary	08-19-1983	11-14-2000	
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12-31-1981	12-31-1981	
notice letters issued	Federal Enforcement		08-10-1982	

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 2 **DIST/DIR:** 0.01 SE **ELEVATION:** **MAP ID:** 1

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	08-10-1982
hazard ranking system package	EPA Fund-Financed	12-01-1982
proposal to national priorities list	EPA Fund-Financed	12-30-1982
final listing on national priorities list	EPA Fund-Financed	09-08-1983
notice letters issued	EPA Fund-Financed	12-28-1984
issue request letters (104e)	Federal Enforcement	12-28-1984
notice letters issued	Federal Enforcement	12-28-1984
issue request letters (104e)	Federal Enforcement	05-22-1987
notice letters issued	Federal Enforcement	05-22-1987
notice letters issued	EPA Fund-Financed	05-22-1987
issue request letters (104e)	Federal Enforcement	06-03-1987
special notice issued	Federal Enforcement	07-01-1987
issue request letters (104e)	Federal Enforcement	07-23-1987
notice letters issued	Federal Enforcement	10-29-1987
notice letters issued	EPA Fund-Financed	10-29-1987
issue request letters (104e)	Federal Enforcement	05-13-1988
administrative order on consent	Federal Enforcement Primary	07-22-1988

- More Details Exist For This Site; Max Page Limit Reached -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 143	DIST/DIR: 0.01 N-	ELEVATION: 5227	MAP ID: 2
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NAME: RTD	REV: 04/04/11
ADDRESS: 655 MARIPOSA ST DENVER CO 80204 DENVER	ID1: 1058
CONTACT:	ID2:
SOURCE: COSTIS	STATUS: CLOSED
	PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 3/14/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1058

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 24 **DIST/DIR:** 0.01 N- **ELEVATION:** 5227 **MAP ID:** 2

NAME: RTD - LRT MAINTENANCE FACILITY
ADDRESS: 655 MARIPOSA
DENVER CO 80201

REV: 1/11/11
ID1: COD983770488
ID2:
STATUS: VGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS:
GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D002 - Corrosive waste

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 99 **DIST/DIR:** 0.01 N- **ELEVATION:** 5227 **MAP ID:** 2

NAME: REGIONAL TRANSPORTATION DISTRICT **REV:** 04/01/11
ADDRESS: 655 MARIPOSA ST **ID1:** 9494
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 4418
OWNER NAME:
OWNER ADDRESS: PO BOX 369
GREELEY CO 80631

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 4000
TANK ID: 25173
TANK TAG: 9494-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 25174
TANK TAG: 9494-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 25175
TANK TAG: 9494-3

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 25176
TANK TAG: 9494-4

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=9494

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 26 **DIST/DIR:** 0.01 SW **ELEVATION:** 5224 **MAP ID:** 3

NAME: THE GLIDDEN CO
ADDRESS: 637 OSAGE ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COR000202747
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS:
GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

44412 - PAINT AND WALLPAPER STORES

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 88 **DIST/DIR:** 0.01 NW **ELEVATION:** 5224 **MAP ID:** 4

NAME: DENVER LOCOMOTIVE SHOP	REV: 04/01/11
ADDRESS: 680 SEMINOLE RD	ID1: 2293
DENVER CO 80204	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: COSTIS	

OWNER INFORMATION

OWNER ID NUMBER: 5458
OWNER NAME:
OWNER ADDRESS: 280 South 400 West
SALT LAKE CITY UT 84101

TANK INFORMATION

TANK TYPE: AST
TANK CONTENTS: Z Other
TANK CAPACITY: 14000
TANK ID: 6442
TANK TAG: 2293-1

TANK TYPE: AST
TANK CONTENTS: Z Other
TANK CAPACITY: 14000
TANK ID: 6443
TANK TAG: 2293-2

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 35000
TANK ID: 6444
TANK TAG: 2293-3

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 15000
TANK ID: 6445
TANK TAG: 2293-4

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 8400
TANK ID: 6446
TANK TAG: 2293-5

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 35000
TANK ID: 6447
TANK TAG: 2293-6

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 88 **DIST/DIR:** 0.01 NW **ELEVATION:** 5224 **MAP ID:** 4

NAME: DENVER LOCOMOTIVE SHOP **REV:** 04/01/11
ADDRESS: 680 SEMINOLE RD **ID1:** 2293
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

TANK CAPACITY: 35000
TANK ID: 6448
TANK TAG: 2293-7

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 10000
TANK ID: 6449
TANK TAG: 2293-8

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 2000
TANK ID: 6450
TANK TAG: 2293-9

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2293

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 107 **DIST/DIR:** 0.01 NW **ELEVATION:** 5224 **MAP ID:** 4

NAME: SPTCO DENVER LOCOMOTIVE PLANT **REV:**
ADDRESS: 680 SEMINOLE RD **ID1:** 7431
DENVER CO 80204 **ID2:**
DENVER **STATUS:** UST
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 5458
OWNER NAME: UNION PACIFIC RAILROAD
OWNER ADDRESS: ATTN CRAIG DENNY 1416 DODGE ST ROOM 930
OMAHA CO 68149

TANK INFORMATION

TANK STATUS: Permanently Out of Use- UNDERGROUND STORAGE TANK
TANK INSTALLED DATE:
TANK CAPACITY: 2000 GALLONS
TANK CONTENTS: Used Oil
TANK MATERIAL OF CONSTRUCTION: Asphalt Coated or Bare Steel
PIPE MATERIAL OF CONSTRUCTION: Bare Steel

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 27 **DIST/DIR:** 0.01 NW **ELEVATION:** 5224 **MAP ID:** 4

NAME: UNION PACIFIC RR CO BURNHAM SHOPS
ADDRESS: 680 SEMINOLE RD
DENVER CO 80023
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COD983790932
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS:
GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

482111 - LINE-HAUL RAILROADS
482111 - LINE-HAUL RAILROADS
482111 - LINE-HAUL RAILROADS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D008 - Lead
D000
D001 - Ignitable waste
D007 - Chromium
D002 - Corrosive waste

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 89 **DIST/DIR:** 0.01 SW **ELEVATION:** 5224 **MAP ID:** 5

NAME: DEVOE PAINT **REV:** 04/01/11
ADDRESS: 657 OSAGE ST **ID1:** 11260
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 1816
OWNER NAME: DEVOE and REYNOLDS CO;
OWNER ADDRESS: 400 DUPONT CIR
LOUISVILLE KY 40207

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Hazardous Substance
TANK CAPACITY: 1000
TANK ID: 30904
TANK TAG: 11260-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=11260

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 97 **DIST/DIR:** 0.01 -E **ELEVATION:** 5227 **MAP ID:** 6

NAME: PETRY VAPPI CONSTRUCTION CO **REV:** 04/01/11
ADDRESS: 646 MARIPOSA **ID1:** 2680
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 3878
OWNER NAME: N G PETRY CONSTRUCTION CO;
OWNER ADDRESS: 950 17TH ST STE 2250
DENVER CO 80202

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 10000
TANK ID: 7436
TANK TAG: 2680-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1500
TANK ID: 7437
TANK TAG: 2680-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 7438
TANK TAG: 2680-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2680

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 36 **DIST/DIR:** 0.02 NW **ELEVATION:** 5207 **MAP ID:** 7

NAME: SEARS ROEBUCK AND COMPANY
ADDRESS: 701 OSAGE ST
DENVER CO 80219
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COD114044506
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain
F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us
D002 - Corrosive waste
D001 - Ignitable waste

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 104	DIST/DIR: 0.02 NW	ELEVATION: 5207	MAP ID: 7
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NAME: SEARS WAREHOUSE	REV: 04/01/11
ADDRESS: 701 OSAGE ST	ID1: 16080
DENVER CO 80210	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: COSTIS	

OWNER INFORMATION

OWNER ID NUMBER:	17683
OWNER NAME:	CCOD PARKWAY CENTER;
OWNER ADDRESS:	1391 SPEER BLVD 7TH FLOOR
	DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16080

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 34 **DIST/DIR:** 0.04 SW **ELEVATION:** 5210 **MAP ID:** 8

NAME: PPG INDUSTRIES INC
ADDRESS: 590 QUIVAS ST
DENVER CO 80204

REV: 1/11/11
ID1: COD078343613
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste
F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoro

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 98 **DIST/DIR:** 0.04 SW **ELEVATION:** 5210 **MAP ID:** 8

NAME: PPG INDUSTRIES INC **REV:** 04/01/11
ADDRESS: 590 QUIVAS ST **ID1:** 7592
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 4266
OWNER NAME: PPG INDUSTRIES INC;
OWNER ADDRESS: 590 QUIVAS ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 19972
TANK TAG: 7592-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7592

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 64 **DIST/DIR:** 0.05 SW **ELEVATION:** 5211 **MAP ID:** 9

NAME: UNKNOWN	REV:
ADDRESS: 1701 WEST W. 6TH AVE	ID1: CO97-471
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

PRP INFORMATION

PRP NAME: UNKNOWN
PRP CONTACT:
PRP ADDRESS:

SPILL INFORMATION

EVENT DATE: 10/7/1997
MATERIAL TYPE: OIL

MATERIAL1: OILS,DIESEL
QUANTITY1: 0 UNKNOWN
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: UNKNOWN
SOURCE TYPE: UNKNOWN
MEDIUM: LAND AND GROUND WATER
WATERWAY:
CAUSE: UNKNOWN
CAUSE INFO: UNKNOWN

ACTION:

RESPONSE COMMENTS: HE ALSO STATED THAT LAST YEAR THE DENVER WATER BOARD, WHICH IS ALOS NEXT TO UNION PACIFIC RR, HAD THE SAME PROBLEM.

COMMENTS: WHILE DIGGING A TRENCH, GROUNDWATER CAME IN AND DIESEL WAS FLOATING ON TOP. CALLER STATES THAT UNION PACIFIC RR IS NEXT DOOR and HAS HAD SEVERAL SPILLS IN THEPAST.

ADDITIONAL COMMENTS:

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 46 **DIST/DIR:** 0.06 N- **ELEVATION:** 5227 **MAP ID:** 10

NAME: NEIMAN SALVAGE YARD	REV: 4/27/1992
ADDRESS: WEST JUST OF 7TH and MARIPOSA DENVER/CENTRAL CO 80204 DENVER	ID1: 265078
CONTACT:	ID2:
SOURCE: EPA	STATUS: FIXED FACILITY
	PHONE:

SPILL INFORMATION

DATE OF SPILL: 4/27/1992 **TIME OF SPILL:** 0000

PRODUCT RELEASED (1): BURNING OF SALVAGE GARBAGE
QUANTITY (1): 0
UNITS (1): UNK

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: YES	GROUNDWATER: NO
LAND: NO	FIXED FACILITY: NO
WATER: NO	OTHER: NO
WATERBODY AFFECTED BY RELEASE:	NONE

CAUSE OF RELEASE

DUMPING: NO	EQUIPMENT FAILURE: NO
NATURAL PHENOMENON: NO	OPERATOR ERROR: YES
OTHER CAUSE: NO	TRANSP. ACCIDENT: NO
UNKNOWN: NO	

ACTIONS TAKEN: NOTIFIED COLO DEPT OF HEALTH

RELEASE DETECTION: SALVAGE YARD OPEN BURNING OF TRASH IN 55 GAL DRUMS.

MISC. NOTES: CALLER ALLEGED SALVAGE YARD WAS BURNING MATERIAL - BAD FUMES/ODORS. SALVAGE YAR MAY BE IN VIOLATION OF OPEN BURNING REG S.

DISCHARGER INFORMATION

DISCHARGER ID: 265078	DUN and BRADSTREET :
TYPE OF DISCHARGER: PRIVATE CITIZEN	
NAME OF DISCHARGER: NEIMAN SALVAGE YARD	
ADDRESS: 730 NAVAJO DENVER/CENTRAL	

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 130	DIST/DIR: 0.07 SW	ELEVATION: 5209	MAP ID: 11
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NAME: CONRADS WAREHOUSE
ADDRESS: 595 QUIVAS
DENVER CO 80204

REV: 04/04/11
ID1: 5751
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 10/18/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5751

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 83 **DIST/DIR:** 0.07 SW **ELEVATION:** 5209 **MAP ID:** 11

NAME: CONRADS INC (CURRENTLY) **REV:** 04/01/11
ADDRESS: 595 QUIVAS **ID1:** 7836
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 17701
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 2000
TANK ID: 20587
TANK TAG: 7836-1

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 20588
TANK TAG: 7836-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7836

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 84	DIST/DIR: 0.07 SW	ELEVATION: 5209	MAP ID: 11
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NAME: CONRADS WAREHOUSE	REV: 04/01/11
ADDRESS: 595 QUIVAS DENVER CO 80204	ID1: 13770
	ID2:
	STATUS:
CONTACT:	PHONE:
SOURCE: COSTIS	

OWNER INFORMATION

OWNER ID NUMBER:	17474
OWNER NAME:	CHESLIN; HUGH
OWNER ADDRESS:	785 VALLEJO ST DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13770

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 31 **DIST/DIR:** 0.08 SW **ELEVATION:** 5206 **MAP ID:** 12

NAME: DUPONT DE NEMOURS and CO
ADDRESS: 555 QUIVAS ST
DENVER CO 80217

REV: 1/11/11
ID1: COT090011297
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

D002 - Corrosive waste

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain

F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 57 **DIST/DIR:** 0.08 S- **ELEVATION:** 5224 **MAP ID:** 13

NAME: SOUTHERN PACIFIC RAILROAD	REV:
ADDRESS: 1 NORTH BLOCK OF 4TH AND NAVAJO STREETS	ID1: CO96-182
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

PRP INFORMATION

PRP NAME: SOUTHERN PACIFIC RAILROAD
PRP CONTACT:
PRP ADDRESS: DENVER CO

SPILL INFORMATION

EVENT DATE: 5/27/1996
MATERIAL TYPE: OIL

MATERIAL1: UNKNOWN OIL
QUANTITY1: 500 GALLONS
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: UNKNOWN
SOURCE TYPE: UNKNOWN
MEDIUM: LAND
WATERWAY:
CAUSE: UNKNOWN
CAUSE INFO: UNKNOWN

ACTION: RELEASE ONGOING AT UNKNOWN RATE

RESPONSE COMMENTS:

COMMENTS: CALLER STATES THAT OIL IS BUBBLING OUT OF THE GROUND AND POOLING ON A GRAVEL ROAD.

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 77 **DIST/DIR:** 0.08 -E **ELEVATION:** 5229 **MAP ID:** 14

NAME: BELCON MECHANICAL **REV:** 04/01/11
ADDRESS: 630 LIPAN **ID1:** 12739
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 17141
OWNER NAME: BELCON MECHANICAL;
OWNER ADDRESS: 630 LIPAN
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12739

LUST

SEARCH ID: 120 **DIST/DIR:** 0.08 -E **ELEVATION:** 5229 **MAP ID:** 14

NAME: BELCON MECHANICAL **REV:** 04/04/11
ADDRESS: 630 LIPAN **ID1:** 3218
DENVER CO 80204 **ID2:**
DENVER **STATUS:** CLOSED
CONTACT: **PHONE:**
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 2/14/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3218

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 85 **DIST/DIR:** 0.08 -E **ELEVATION:** 5229 **MAP ID:** 14

NAME: COOK MECHANICAL SYSTEMS **REV:** 04/01/11
ADDRESS: 630 LIPAN ST **ID1:** 930
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 17701
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 3000
TANK ID: 2716
TANK TAG: 930-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 3000
TANK ID: 2717
TANK TAG: 930-2

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 500
TANK ID: 2718
TANK TAG: 930-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=930

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 109	DIST/DIR: 0.08 SE	ELEVATION: 5228	MAP ID: 15
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NAME: UNKNOWN
ADDRESS: 1155 WEST 5TH AVE
DENVER CO 80204

REV: 04/01/11
ID1: 6432
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER:	9999
OWNER NAME:	UNKNOWN;
OWNER ADDRESS:	UNKNOWN
	ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6432

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 35 **DIST/DIR:** 0.09 SE **ELEVATION:** 5229 **MAP ID:** 16

NAME: S and W PAINTING and DECORATING
ADDRESS: 575 LIPAN ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COR000220681
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

INSTITUTIONAL CONTROL: N
HUMAN EXPOSURE:
GW CONTROLS:
LAND TYPE:

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 136 **DIST/DIR:** 0.09 NE **ELEVATION:** 5230 **MAP ID:** 17

NAME: JEBCO HEATING and AIR CONDITIONING
ADDRESS: 666 LIPAN ST
DENVER CO 80209
DENVER
CONTACT:
SOURCE: COSTIS

REV: 04/04/11
ID1: 8929
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/20/2002 8:52:47 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8929

UST

SEARCH ID: 92 **DIST/DIR:** 0.09 NE **ELEVATION:** 5230 **MAP ID:** 17

NAME: JEBCO HEATING and AIR CONDITIONING
ADDRESS: 666 LIPAN ST
DENVER CO 80209
CONTACT:
SOURCE: COSTIS

REV: 04/01/11
ID1: 5698
ID2:
STATUS:
PHONE:

OWNER INFORMATION

OWNER ID NUMBER: 18818
OWNER NAME:
OWNER ADDRESS: PO BOX 1619
GRAND LAKE CO 80447

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 15536
TANK TAG: 5698-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5698

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 101 **DIST/DIR:** 0.09 SE **ELEVATION:** 5230 **MAP ID:** 18

NAME: ROBERT OHOWELL PROPERTY
ADDRESS: 550 LIPAN ST
DENVER CO 80204

REV: 04/01/11
ID1: 10795
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 4533
OWNER NAME: OHOWELL; ROBERT
OWNER ADDRESS: 550 LIPAN ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 500
TANK ID: 29418
TANK TAG: 10795-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10795

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 3 **DIST/DIR:** 0.10 SE **ELEVATION:** **MAP ID:** 19

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	04-15-2008	09-30-2008
risk/health assessment	EPA Fund-Financed	04-12-2005	10-13-2005
prospective purchaser agreement assessment	Federal Enforcement	11-26-2002	06-03-2005

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 3 **DIST/DIR:** 0.10 SE **ELEVATION:** **MAP ID:** 19

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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forward planning activity/management assistance	EPA Fund-Financed	09-15-2000	09-27-2000
preparation of cost document package	Federal Enforcement	09-02-2000	10-19-2001
remedial design/remedial action negotiations	Federal Enforcement	06-15-2000	10-10-2001
issue request letters (104e)	Federal Enforcement	03-28-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-02-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-01-2000	03-28-2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	02-28-2000	08-26-2002
community advisory group	Community Organization	01-01-2000	08-16-2006
preparation of cost document package	Federal Enforcement	11-29-1999	01-25-2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11-15-1999	06-16-2000
five-year review	EPA Fund-Financed Primary	06-10-1999	12-21-1999
preparation of cost document package	Federal Enforcement	10-21-1998	12-15-1998
five-year review	EPA Fund-Financed Primary	01-15-1998	09-30-2003
national priorities list responsible party search	Federal Enforcement Primary	03-08-1995	03-30-1995
preparation of cost document package	Federal Enforcement Primary	02-26-1994	07-11-1994
preparation of cost document package	Federal Enforcement Primary	12-31-1993	02-25-1994
potentially responsible party removal Cleaned up	Responsible Party Primary	06-29-1993	08-27-1993

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 3 **DIST/DIR:** 0.10 SE **ELEVATION:** **MAP ID:** 19

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	04-05-1993	09-12-1994
potentially responsible party remedial action	Responsible Party Primary	03-31-1993	06-16-2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10-26-1992	06-29-1994
potentially responsible party remedial design	Responsible Party Alternate	06-07-1992	03-31-1993
potentially responsible party remedial design	Responsible Party Primary	06-07-1992	06-27-1996
remedial design/remedial action negotiations	Federal Enforcement Primary	01-28-1992	08-21-1992
preparation of cost document package	Federal Enforcement Primary	12-30-1991	02-11-1994
state support agency cooperative agreement	State, Fund Financed Primary	07-25-1991	09-25-2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	07-17-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	09-09-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-11-1991	08-08-1991
national priorities list responsible party search	Federal Enforcement	05-24-1991	05-24-1991
preparation of cost document package	Federal Enforcement Primary	03-30-1991	09-30-1991
national priorities list responsible party search	Federal Enforcement Primary	01-21-1991	07-23-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	06-21-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	05-29-1992

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 3 **DIST/DIR:** 0.10 SE **ELEVATION:** **MAP ID:** 19

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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state support agency cooperative agreement	Federal Enforcement Primary	08-06-1990	09-29-1992	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-01-1988	09-12-1988	
state support agency cooperative agreement	State, Fund Financed Primary	02-12-1988	07-20-1989	
potentially responsible party remedial design	Responsible Party Primary	12-11-1987	03-01-1990	
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	08-03-1987	03-31-1988	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-22-1987	08-25-1987	
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	04-30-1987	06-29-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	03-24-1987	06-02-1987	
national priorities list responsible party search	Federal Enforcement Primary	09-12-1986	03-01-1990	
national priorities list responsible party search	Federal Enforcement	05-08-1986	01-16-1987	
state support agency cooperative agreement	State, Fund Financed Primary	04-10-1986	04-11-1991	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	05-08-1986	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	01-16-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11-26-1984	01-16-1985	
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	01-03-1984	01-03-1984	
state support agency cooperative agreement	State, Fund Financed Primary	08-19-1983	11-14-2000	
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12-31-1981	12-31-1981	
notice letters issued	Federal Enforcement		08-10-1982	

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 3 **DIST/DIR:** 0.10 SE **ELEVATION:** **MAP ID:** 19

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	08-10-1982
hazard ranking system package	EPA Fund-Financed	12-01-1982
proposal to national priorities list	EPA Fund-Financed	12-30-1982
final listing on national priorities list	EPA Fund-Financed	09-08-1983
notice letters issued	EPA Fund-Financed	12-28-1984
issue request letters (104e)	Federal Enforcement	12-28-1984
notice letters issued	Federal Enforcement	12-28-1984
issue request letters (104e)	Federal Enforcement	05-22-1987
notice letters issued	Federal Enforcement	05-22-1987
notice letters issued	EPA Fund-Financed	05-22-1987
issue request letters (104e)	Federal Enforcement	06-03-1987
special notice issued	Federal Enforcement	07-01-1987
issue request letters (104e)	Federal Enforcement	07-23-1987
notice letters issued	Federal Enforcement	10-29-1987
notice letters issued	EPA Fund-Financed	10-29-1987
issue request letters (104e)	Federal Enforcement	05-13-1988
administrative order on consent	Federal Enforcement Primary	07-22-1988

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 22 **DIST/DIR:** 0.10 SE **ELEVATION:** 5230 **MAP ID:** 20

NAME: MILE HI BODY SHOP INC
ADDRESS: 519 LIPAN ST
DENVER CO 80204

REV: 1/11/11
ID1: COR000217497
ID2:
STATUS: VGN
PHONE:

CONTACT:
SOURCE: EPA

CONTACT INFORMATION:

GERALD L DANNER
3035954646

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE: NO
GPRA CA 2008: NO

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: NO
SUBJCA TSD 3004: NO
SUBJCA NON TSD: NO
SUBJCA TSD DISCRETION: NO

PERMIT WORKLOAD: ----
CLOSURE WORKLOAD: ----
POST CLOSURE WORKLOAD: ----

PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: ----
CORRECTIVE ACTION WORKLOAD: NO
GENERATOR STATUS: CEG
TRANSPORTER: NO
UNIVERSAL WASTE: NO
RECYCLER: NO
USED OIL: NO
IMPORTER: NO
MIXED WASTE GENERATOR: NO
ONSITE BURNER EXEMPT: NO
FURNACE EXEMPTION: NO
UNDERGROUND INJECTION: NO

NAIC 1: Automotive Body, Paint, and Interior Repair and Maintenance
NAIC 2:
NAIC 3:
NAIC 4:

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 50 **DIST/DIR:** 0.10 S- **ELEVATION:** 5225 **MAP ID:** 21

NAME: SOUTHERN PACIFIC RAILROAD	REV: 5/27/96
ADDRESS: 1 NORTH BLOCK OF 4TH AND NAVAJO STREET DENVER CO DENVER	ID1: 495114
CONTACT:	ID2:
SOURCE: EPA	STATUS: UNKNOWN (EPA REGIONS)
	PHONE:

SPILL INFORMATION

DATE OF SPILL: 5/27/96 **TIME OF SPILL:** 0800

PRODUCT RELEASED (1): UNKNOWN MATERIAL, OIL OR OIL-LIK
QUANTITY (1): 500
UNITS (1): GAL

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO	GROUNDWATER: NO
LAND: YES	FIXED FACILITY: NO
WATER: NO	OTHER: NO

WATERBODY AFFECTED BY RELEASE:

CAUSE OF RELEASE

DUMPING: NO	EQUIPMENT FAILURE: NO
NATURAL PHENOMENON: NO	OPERATOR ERROR: NO
OTHER CAUSE: NO	TRANSP. ACCIDENT: NO
UNKNOWN: YES	

ACTIONS TAKEN: RELEASE ONGOING AT UNKNOWN RATE

RELEASE DETECTION: UNKNOWN CALLER STATES THAT OIL IS BUBBLING OUT OF THE GROUND AND POOLING ON A GRAVEL ROAD

MISC. NOTES: WILL NOTIFY: FIRE DEPT

DISCHARGER INFORMATION

DISCHARGER ID: 495114	DUN and BRADSTREET :
TYPE OF DISCHARGER: PRIVATE ENTERPRISE	
NAME OF DISCHARGER: SOUTHERN PACIFIC RAILROAD	
ADDRESS:	
DENVER CO	

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 44 **DIST/DIR:** 0.10 S- **ELEVATION:** **MAP ID:** 21

NAME: INCIDENT 343954	REV: 12/30/08
ADDRESS: 1 NORTH BLOCK OF 4TH AND NAVAJO STREETS	ID1: 343954-CO
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: NRC	

INCIDENT DESCRIPTION: 5/27/96 - CALLER STATES THAT OIL IS BUBBLING OUT OF THE GROUND AND POOLING ON A GRAVEL ROAD
MATERIAL:
AMOUNT:
LINK: http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=343954

UST

SEARCH ID: 87 **DIST/DIR:** 0.10 SE **ELEVATION:** 5230 **MAP ID:** 22

NAME: D and S WHOLESALE	REV: 04/01/11
ADDRESS: 515 LIPAN	ID1: 17022
DENVER CO 80223	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: COSTIS	

OWNER INFORMATION

OWNER ID NUMBER: 19523
OWNER NAME:
OWNER ADDRESS: DIVISION OF OIL and PUBLIC SAFETY
DENVER CO 80202

TANK INFORMATION

TANK TYPE: LPG
TANK CONTENTS: LPG
TANK CAPACITY: 500
TANK ID: 37299
TANK TAG: 17022-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=17022

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 142	DIST/DIR: 0.10 S-	ELEVATION: 5222	MAP ID: 23
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NAME: RIO GRANDE CO RESIDENTIAL PRODUCTS DIV
ADDRESS: 500 OSAGE ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: COSTIS

REV: 04/04/11
ID1: 9337
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 9/15/2003 9:17:25 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=9337

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 100 **DIST/DIR:** 0.10 S- **ELEVATION:** 5222 **MAP ID:** 23

NAME: RIO GRANDE CO RESIDENTIAL PRODUCTS DIV **REV:** 04/01/11
ADDRESS: 500 OSAGE ST **ID1:** 7940
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 4492
OWNER NAME:
OWNER ADDRESS: 201 SANTA FE DR
DENVER CO 80223

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 20790
TANK TAG: 7940-1

TANK TYPE: UST
TANK CONTENTS: Z Unknown
TANK CAPACITY: 999999999
TANK ID: 20791
TANK TAG: 7940-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7940

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 111 **DIST/DIR:** 0.10 S- **ELEVATION:** 5221 **MAP ID:** 24

NAME: 5TH and OSAGE
ADDRESS: 5TH and OSAGE
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV: 12/01/08
ID1: LTT-86
ID2:
STATUS: UNKNOWN
PHONE:

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS). This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

UST

SEARCH ID: 82 **DIST/DIR:** 0.11 S- **ELEVATION:** 5222 **MAP ID:** 25

NAME: CHAMPION FENCE CO
ADDRESS: 490 OSAGE ST
DENVER CO 80204

REV: 04/01/11
ID1: 12817
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 17701
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12817

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 106 **DIST/DIR:** 0.11 S- **ELEVATION:** 5222 **MAP ID:** 25

NAME: SOUTHWEST PROPERTIES
ADDRESS: 490 OSAGE ST
DENVER CO 80216

REV:
ID1: 6064
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 9999
OWNER NAME: UNKNOWN;
OWNER ADDRESS: UNKNOWN
ZIPCODE UNKNOWN XX 99999

TANK INFORMATION

LUST

SEARCH ID: 127 **DIST/DIR:** 0.11 S- **ELEVATION:** 5222 **MAP ID:** 25

NAME: CHAMPION FENCE CO
ADDRESS: 490 OSAGE ST
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 1739
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 10/25/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1739

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 95 **DIST/DIR:** 0.12 SE **ELEVATION:** 5230 **MAP ID:** 26

NAME: MASTERS STUDIO
ADDRESS: 1140 WEST 5TH AVE
DENVER CO 80204

REV: 04/01/11
ID1: 5824
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 4043
OWNER NAME: MASTERS STUDIO;
OWNER ADDRESS: 1455 W 5TH AVE
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 15889
TANK TAG: 5824-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 950
TANK ID: 15890
TANK TAG: 5824-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5824

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 94 **DIST/DIR:** 0.12 SE **ELEVATION:** 5230 **MAP ID:** 26

NAME: MASTERS STUDIO
ADDRESS: 1140 WEST 5TH AVE
DENVER CO 80204

REV: 04/01/11
ID1: 12953
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 16087
OWNER NAME: RUNYAN; JERALD
OWNER ADDRESS: 7309 CARR ST
ARVADA CO 80005

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12953

LUST

SEARCH ID: 139 **DIST/DIR:** 0.12 SE **ELEVATION:** 5230 **MAP ID:** 26

NAME: MASTERS STUDIO
ADDRESS: 1140 WEST 5TH AVE
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 4740
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/15/1994

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4740

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 102 **DIST/DIR:** 0.12 N- **ELEVATION:** 5230 **MAP ID:** 27

NAME: RODERICK R BROWN PROPERTY
ADDRESS: 751 MARIPOSA ST
DENVER CO 80204

REV: 04/01/11
ID1: 10322
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 4576
OWNER NAME: BROWN; RODERICK
OWNER ADDRESS: 6175 S JASMINE ST
ENGLEWOOD CO 80111

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 27956
TANK TAG: 10322-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10322

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.13 SE **ELEVATION:** 5227 **MAP ID:** 28

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY: EPA	DISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPA	PROPOSED DATE: 10-23-81
FINAL LIST BY: EPA	FINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	04-15-2008	09-30-2008
risk/health assessment	EPA Fund-Financed	04-12-2005	10-13-2005
prospective purchaser agreement assessment	Federal Enforcement	11-26-2002	06-03-2005

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**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.13 SE **ELEVATION:** 5227 **MAP ID:** 28

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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forward planning activity/management assistance	EPA Fund-Financed	09-15-2000	09-27-2000
preparation of cost document package	Federal Enforcement	09-02-2000	10-19-2001
remedial design/remedial action negotiations	Federal Enforcement	06-15-2000	10-10-2001
issue request letters (104e)	Federal Enforcement	03-28-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-02-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-01-2000	03-28-2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	02-28-2000	08-26-2002
community advisory group	Community Organization	01-01-2000	08-16-2006
preparation of cost document package	Federal Enforcement	11-29-1999	01-25-2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11-15-1999	06-16-2000
five-year review	EPA Fund-Financed Primary	06-10-1999	12-21-1999
preparation of cost document package	Federal Enforcement	10-21-1998	12-15-1998
five-year review	EPA Fund-Financed Primary	01-15-1998	09-30-2003
national priorities list responsible party search	Federal Enforcement Primary	03-08-1995	03-30-1995
preparation of cost document package	Federal Enforcement Primary	02-26-1994	07-11-1994
preparation of cost document package	Federal Enforcement Primary	12-31-1993	02-25-1994
potentially responsible party removal Cleaned up	Responsible Party Primary	06-29-1993	08-27-1993

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.13 SE **ELEVATION:** 5227 **MAP ID:** 28

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	04-05-1993	09-12-1994
potentially responsible party remedial action	Responsible Party Primary	03-31-1993	06-16-2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10-26-1992	06-29-1994
potentially responsible party remedial design	Responsible Party Alternate	06-07-1992	03-31-1993
potentially responsible party remedial design	Responsible Party Primary	06-07-1992	06-27-1996
remedial design/remedial action negotiations	Federal Enforcement Primary	01-28-1992	08-21-1992
preparation of cost document package	Federal Enforcement Primary	12-30-1991	02-11-1994
state support agency cooperative agreement	State, Fund Financed Primary	07-25-1991	09-25-2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	07-17-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	09-09-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-11-1991	08-08-1991
national priorities list responsible party search	Federal Enforcement	05-24-1991	05-24-1991
preparation of cost document package	Federal Enforcement Primary	03-30-1991	09-30-1991
national priorities list responsible party search	Federal Enforcement Primary	01-21-1991	07-23-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	06-21-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	05-29-1992

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.13 SE **ELEVATION:** 5227 **MAP ID:** 28

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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state support agency cooperative agreement	Federal Enforcement Primary	08-06-1990	09-29-1992	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-01-1988	09-12-1988	
state support agency cooperative agreement	State, Fund Financed Primary	02-12-1988	07-20-1989	
potentially responsible party remedial design	Responsible Party Primary	12-11-1987	03-01-1990	
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	08-03-1987	03-31-1988	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-22-1987	08-25-1987	
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	04-30-1987	06-29-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	03-24-1987	06-02-1987	
national priorities list responsible party search	Federal Enforcement Primary	09-12-1986	03-01-1990	
national priorities list responsible party search	Federal Enforcement	05-08-1986	01-16-1987	
state support agency cooperative agreement	State, Fund Financed Primary	04-10-1986	04-11-1991	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	05-08-1986	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	01-16-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11-26-1984	01-16-1985	
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	01-03-1984	01-03-1984	
state support agency cooperative agreement	State, Fund Financed Primary	08-19-1983	11-14-2000	
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12-31-1981	12-31-1981	
notice letters issued	Federal Enforcement		08-10-1982	

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 9 **DIST/DIR:** 0.13 SE **ELEVATION:** 5227 **MAP ID:** 28

<p>NAME: DENVER RADIUM SITE 94 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955L ID2: 0800247L STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	08-10-1982
hazard ranking system package	EPA Fund-Financed	12-01-1982
proposal to national priorities list	EPA Fund-Financed	12-30-1982
final listing on national priorities list	EPA Fund-Financed	09-08-1983
notice letters issued	EPA Fund-Financed	12-28-1984
issue request letters (104e)	Federal Enforcement	12-28-1984
notice letters issued	Federal Enforcement	12-28-1984
issue request letters (104e)	Federal Enforcement	05-22-1987
notice letters issued	Federal Enforcement	05-22-1987
notice letters issued	EPA Fund-Financed	05-22-1987
issue request letters (104e)	Federal Enforcement	06-03-1987
special notice issued	Federal Enforcement	07-01-1987
issue request letters (104e)	Federal Enforcement	07-23-1987
notice letters issued	Federal Enforcement	10-29-1987
notice letters issued	EPA Fund-Financed	10-29-1987
issue request letters (104e)	Federal Enforcement	05-13-1988
administrative order on consent	Federal Enforcement Primary	07-22-1988

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.13 SE **ELEVATION:** 5229 **MAP ID:** 29

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY: EPA	DISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPA	PROPOSED DATE: 10-23-81
FINAL LIST BY: EPA	FINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	04-15-2008	09-30-2008
risk/health assessment	EPA Fund-Financed	04-12-2005	10-13-2005
prospective purchaser agreement assessment	Federal Enforcement	11-26-2002	06-03-2005

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.13 SE **ELEVATION:** 5229 **MAP ID:** 29

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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forward planning activity/management assistance	EPA Fund-Financed	09-15-2000	09-27-2000
preparation of cost document package	Federal Enforcement	09-02-2000	10-19-2001
remedial design/remedial action negotiations	Federal Enforcement	06-15-2000	10-10-2001
issue request letters (104e)	Federal Enforcement	03-28-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-02-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-01-2000	03-28-2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	02-28-2000	08-26-2002
community advisory group	Community Organization	01-01-2000	08-16-2006
preparation of cost document package	Federal Enforcement	11-29-1999	01-25-2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11-15-1999	06-16-2000
five-year review	EPA Fund-Financed Primary	06-10-1999	12-21-1999
preparation of cost document package	Federal Enforcement	10-21-1998	12-15-1998
five-year review	EPA Fund-Financed Primary	01-15-1998	09-30-2003
national priorities list responsible party search	Federal Enforcement Primary	03-08-1995	03-30-1995
preparation of cost document package	Federal Enforcement Primary	02-26-1994	07-11-1994
preparation of cost document package	Federal Enforcement Primary	12-31-1993	02-25-1994
potentially responsible party removal Cleaned up	Responsible Party Primary	06-29-1993	08-27-1993

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.13 SE **ELEVATION:** 5229 **MAP ID:** 29

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	04-05-1993	09-12-1994
potentially responsible party remedial action	Responsible Party Primary	03-31-1993	06-16-2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10-26-1992	06-29-1994
potentially responsible party remedial design	Responsible Party Alternate	06-07-1992	03-31-1993
potentially responsible party remedial design	Responsible Party Primary	06-07-1992	06-27-1996
remedial design/remedial action negotiations	Federal Enforcement Primary	01-28-1992	08-21-1992
preparation of cost document package	Federal Enforcement Primary	12-30-1991	02-11-1994
state support agency cooperative agreement	State, Fund Financed Primary	07-25-1991	09-25-2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	07-17-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	09-09-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-11-1991	08-08-1991
national priorities list responsible party search	Federal Enforcement	05-24-1991	05-24-1991
preparation of cost document package	Federal Enforcement Primary	03-30-1991	09-30-1991
national priorities list responsible party search	Federal Enforcement Primary	01-21-1991	07-23-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	06-21-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	05-29-1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.13 SE **ELEVATION:** 5229 **MAP ID:** 29

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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state support agency cooperative agreement	Federal Enforcement Primary	08-06-1990	09-29-1992	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-01-1988	09-12-1988	
state support agency cooperative agreement	State, Fund Financed Primary	02-12-1988	07-20-1989	
potentially responsible party remedial design	Responsible Party Primary	12-11-1987	03-01-1990	
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	08-03-1987	03-31-1988	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-22-1987	08-25-1987	
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	04-30-1987	06-29-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	03-24-1987	06-02-1987	
national priorities list responsible party search	Federal Enforcement Primary	09-12-1986	03-01-1990	
national priorities list responsible party search	Federal Enforcement	05-08-1986	01-16-1987	
state support agency cooperative agreement	State, Fund Financed Primary	04-10-1986	04-11-1991	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	05-08-1986	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	01-16-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11-26-1984	01-16-1985	
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	01-03-1984	01-03-1984	
state support agency cooperative agreement	State, Fund Financed Primary	08-19-1983	11-14-2000	
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12-31-1981	12-31-1981	
notice letters issued	Federal Enforcement		08-10-1982	

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

CERCLIS

SEARCH ID: 10 **DIST/DIR:** 0.13 SE **ELEVATION:** 5229 **MAP ID:** 29

<p>NAME: DENVER RADIUM SITE 95 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955M ID2: 0800247M STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	08-10-1982
hazard ranking system package	EPA Fund-Financed	12-01-1982
proposal to national priorities list	EPA Fund-Financed	12-30-1982
final listing on national priorities list	EPA Fund-Financed	09-08-1983
notice letters issued	EPA Fund-Financed	12-28-1984
issue request letters (104e)	Federal Enforcement	12-28-1984
notice letters issued	Federal Enforcement	12-28-1984
issue request letters (104e)	Federal Enforcement	05-22-1987
notice letters issued	Federal Enforcement	05-22-1987
notice letters issued	EPA Fund-Financed	05-22-1987
issue request letters (104e)	Federal Enforcement	06-03-1987
special notice issued	Federal Enforcement	07-01-1987
issue request letters (104e)	Federal Enforcement	07-23-1987
notice letters issued	Federal Enforcement	10-29-1987
notice letters issued	EPA Fund-Financed	10-29-1987
issue request letters (104e)	Federal Enforcement	05-13-1988
administrative order on consent	Federal Enforcement Primary	07-22-1988

- More Details Exist For This Site; Max Page Limit Reached -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 96 **DIST/DIR:** 0.13 N- **ELEVATION:** 5229 **MAP ID:** 30

NAME: NEIMAN INDUSTRIAL RECYCLING
ADDRESS: 730 NAVAJO ST
DENVER CO 80204

REV: 04/01/11
ID1: 7030
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 3904
OWNER NAME: GERALD JAY NEIMAN;
OWNER ADDRESS: 5738 S KENTON ST
ENGLEWOOD CO 80111

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 1000
TANK ID: 18660
TANK TAG: 7030-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 18661
TANK TAG: 7030-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7030

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 33 **DIST/DIR:** 0.13 N- **ELEVATION:** 5229 **MAP ID:** 30

NAME: NEIMAN S INDUSTRIAL RECYCLING
ADDRESS: 730 NAVAJO
DENVER CO 80204

REV: 1/11/11
ID1: COD983776832
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 49 **DIST/DIR:** 0.13 SE **ELEVATION:** 5232 **MAP ID:** 31

<p>NAME: PUBLIC SERVICE CO OF CO ADDRESS: 1046 WEST 5TH AVE DENVER CO 80202 DENVER CONTACT: SOURCE: EPA</p>	<p>REV: 11/21/1993 ID1: 348502 ID2: STATUS: PIPELINE RELATED PHONE:</p>
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SPILL INFORMATION

DATE OF SPILL: 11/21/1993 **TIME OF SPILL:** 1300

PRODUCT RELEASED (1): NATURAL GAS
QUANTITY (1): 0
UNITS (1): UNK

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: YES	GROUNDWATER: NO
LAND: NO	FIXED FACILITY: NO
WATER: NO	OTHER: NO
WATERBODY AFFECTED BY RELEASE: ATMOSPHERE	

CAUSE OF RELEASE

DUMPING: NO	EQUIPMENT FAILURE: NO	
NATURAL PHENOMENON: NO	OPERATOR ERROR: NO	
OTHER CAUSE: NO	TRANSP. ACCIDENT: NO	
UNKNOWN: NO		

ACTIONS TAKEN: THE FIRE WAS PUT OUT BY THE DENVER FIRE DEPT
RELEASE DETECTION: A SERVICE LINE WAS DAMAGED BY THE DENVER WATER BOARD AS THEY WERE LAYING A WATER PIPE. GAS THEN MIGRATED INTO THE HOUSE AND EXPLODED

MISC. NOTES: 1 BOY WAS SLIGHTLY INJURED IN THE EXPLOSION. THE CALLER REPORTS THAT THE WATER LINE WAS PLACED DOWN ABOUT A WEEK BEFORE THE EXPLOSION. CANCELLED: TOTAL DAMAGE TO THE STRUCTURE OF LESS THAN \$50,000, AND THERE WERE NO INJURIES.

DISCHARGER INFORMATION

DISCHARGER ID: 348502	DUN and BRADSTREET :
TYPE OF DISCHARGER: PRIVATE ENTERPRISE	
NAME OF DISCHARGER: PUBLIC SERVICE CO OF CO	
ADDRESS: 1257 17TH ST DENVER CO 80202	

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 43	DIST/DIR: 0.13 SE	ELEVATION:	MAP ID: 31
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NAME: INCIDENT 209022	REV: 12/30/08
ADDRESS: 1046 WEST 5TH AVE	ID1: 209022-CO
DENVER CO 80202	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: NRC	

INCIDENT DESCRIPTION: 11/21/93 - A SERVICE LINE WAS DAMAGED BY THE DENVER WATER BOARD AS THEY WERELAYING A WATER PIPE. GAS THEN MIGRATED INTO THE HOUSE AND EXPLODED

MATERIAL:

AMOUNT:

LINK: http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=209022

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 86 **DIST/DIR:** 0.13 NE **ELEVATION:** 5234 **MAP ID:** 32

NAME: CRAIG and ASSOC **REV:** 04/01/11
ADDRESS: 745 LIPAN ST **ID1:** 13855
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 16080
OWNER NAME: CB PLUMBING;
OWNER ADDRESS: 4115 TAFT HILL RD
FORT COLLINS CO 80524

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Not Listed
TANK CAPACITY: 2000
TANK ID: 31564
TANK TAG: 13855-1

TANK TYPE: UST
TANK CONTENTS: Z Not Listed
TANK CAPACITY: 2000
TANK ID: 31565
TANK TAG: 13855-2

TANK TYPE: UST
TANK CONTENTS: Z Not Listed
TANK CAPACITY: 500
TANK ID: 31566
TANK TAG: 13855-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13855

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 131	DIST/DIR: 0.13 NE	ELEVATION: 5234	MAP ID: 32
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NAME: CRAIG and ASSOC
ADDRESS: 745 LIPAN ST
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 4355
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 1/16/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4355

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 41 **DIST/DIR:** 0.14 N- **ELEVATION:** 5222 **MAP ID:** 33

NAME: DENVER and RIO GRAND RAILROAD	REV: 11/8/91
ADDRESS: WEST W. 8TH and OSAGE AVE	ID1: 240183
DENVER/CENTRAL CO 80204	ID2:
DENVER	STATUS: FIXED FACILITY
CONTACT:	PHONE:
SOURCE: EPA	

SPILL INFORMATION

DATE OF SPILL: 11/8/91 **TIME OF SPILL:** 1100

PRODUCT RELEASED (1): SODIUM HYDROXIDE (20 PPM)
QUANTITY (1): 12000
UNITS (1): GAL

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO	GROUNDWATER: NO
LAND: YES	FIXED FACILITY: NO
WATER: YES	OTHER: NO
WATERBODY AFFECTED BY RELEASE:	STORM SEWER TO PLATTE RIVER

CAUSE OF RELEASE

DUMPING: NO	EQUIPMENT FAILURE: NO
NATURAL PHENOMENON: NO	OPERATOR ERROR: YES
OTHER CAUSE: NO	TRANSP. ACCIDENT: NO
UNKNOWN: NO	

ACTIONS TAKEN: RIEDEL IS ON SITE - BOOMING and SAMPLING
RELEASE DETECTION: STORAGE TANK FOR CLEANING SOLUTION VALVE LEFT ON BY MISTAKE
MISC. NOTES:

DISCHARGER INFORMATION

DISCHARGER ID: 240183	DUN and BRADSTREET :
TYPE OF DISCHARGER: PRIVATE CITIZEN	
NAME OF DISCHARGER: DENVER and RIO GRAND RAILROAD	
ADDRESS: W. 8TH AVE. and OSAGE ST.	
DENVER CO 80204-	

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 55 **DIST/DIR:** 0.14 N- **ELEVATION:** 5222 **MAP ID:** 34

NAME: DENVER and RIO GRANDE RR
ADDRESS: 8TH AND OSAGE
DENVER CO 80204
DENVER
CONTACT:
SOURCE: CDPHE

REV:
ID1: CO91-287
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME: DENVER and RIO GRANDE RR
PRP CONTACT:
PRP ADDRESS: DENVER CO

SPILL INFORMATION

EVENT DATE: 11/7/1991
MATERIAL TYPE: HAZARDOUS

MATERIAL1: SODIUM HYDROXIDE
QUANTITY1: 1000 GALLONS
WATER QUANTITY1: 0

MATERIAL2: OIL RESIDUE
QUANTITY2: 0
WATER QUANTITY2: 0

MATERIAL3:
QUANTITY3: 0
WATER QUANTITY3: 0

SOURCE: FIXED FACILITY
SOURCE TYPE: ABOVE GROUND OPEN CLEANING TANK
MEDIUM: WATER AND LAND
WATERWAY: DITCH TO SO. PLATTE RIVER
CAUSE: ERROR OPERATOR
CAUSE INFO: CONTRACTOR OPENED WRONG VALVE AND LEFT OPEN, OVERFILLING TANK WITH WATER

ACTION: BOOMS PLACED ON DITCH FOR HYDROCARBONS, PH MEASUREMENTS TAKEN

RESPONSE COMMENTS: EDF CODH910095

COMMENTS:

ADDITIONAL COMMENTS:

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 145 **DIST/DIR:** 0.14 NW **ELEVATION:** 5208 **MAP ID:** 35

NAME: SEARS ROEBUCK and CO
ADDRESS: 1701 WEST 6TH AVE
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 8481
ID2:
STATUS: LUST TRUST
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: LUST Trust
LOG DATE: 3/20/2001

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8481

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 103 **DIST/DIR:** 0.14 NW **ELEVATION:** 5208 **MAP ID:** 35

NAME: SEARS ROEBUCK and CO **REV:** 04/01/11
ADDRESS: 1701 WEST 6TH AVE **ID1:** 3026
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 4762
OWNER NAME: SEARS ROEBUCK and CO;
OWNER ADDRESS: SEARS TOWER
CHICAGO IL 60684

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 6000
TANK ID: 8317
TANK TAG: 3026-1

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 4000
TANK ID: 8318
TANK TAG: 3026-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3026

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 114	DIST/DIR: 0.14 NW	ELEVATION: 5208	MAP ID: 35
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NAME: 7TH and OSAGE
ADDRESS: 7TH and OSAGE
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV: 12/01/08
ID1: LTT-88
ID2:
STATUS: UNKNOWN
PHONE:

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS). This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 67 **DIST/DIR:** 0.15 SW **ELEVATION:** 5219 **MAP ID:** 36

<p>NAME: ADDRESS: 500 QUIVAS DENVER CO DENVER</p> <p>CONTACT: SOURCE: CDPHE</p>	<p>REV: ID1: CO97-158 ID2: STATUS: PHONE:</p>
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PRP INFORMATION

PRP NAME:
PRP CONTACT:
PRP ADDRESS:

SPILL INFORMATION

EVENT DATE:	2/5/1997
MATERIAL TYPE:	OIL
MATERIAL1:	OILS,FUEL
QUANTITY1:	0 UNKNOWN
WATER QUANTITY1:	0
MATERIAL2:	
QUANTITY2:	0
WATER QUANTITY2:	0
MATERIAL3:	
QUANTITY3:	0
WATER QUANTITY3:	0
SOURCE:	UNKNOWN
SOURCE TYPE:	UNKNOWN
MEDIUM:	LAND
WATERWAY:	
CAUSE:	UNKNOWN
CAUSE INFO:	UNKNOWN

ACTION:

RESPONSE COMMENTS: BORINGS BEHIND BUILDING ON PROPERTY, BELIEVE DIESEL OR FUEL OIL.

COMMENTS: BLDG DEPT RECEIVED PROPOSAL TO INSTALL MONOPOLE; CONTRACTOR DRILLED 2 SOIL BORINGS TO GET SOIL PARAMETERS FOR MONOPOLE, ENCOUNTERED DISCOLORED SOILS and HYDROCARBON ODORS IN BOTH WELLS 10-25 , GW 18 .

ADDITIONAL COMMENTS:

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 90 **DIST/DIR:** 0.15 SE **ELEVATION:** 5238 **MAP ID:** 37

NAME: FORMER SERVICE STATION **REV:** 04/01/11
ADDRESS: 570 KALAMATH **ID1:** 7454
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 1509
OWNER NAME:
OWNER ADDRESS: 910 16TH ST STE 500
DENVER CO 80202

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 19641
TANK TAG: 7454-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 6000
TANK ID: 19642
TANK TAG: 7454-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 6000
TANK ID: 19643
TANK TAG: 7454-3

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 550
TANK ID: 19644
TANK TAG: 7454-4

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7454

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 137 **DIST/DIR:** 0.15 SE **ELEVATION:** 5238 **MAP ID:** 37

NAME: KALAMATH ASSOCIATES PROPERTY
ADDRESS: 570 KALAMATH ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: COSTIS

REV: 04/04/11
ID1: 623
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 9/9/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=623

UST

SEARCH ID: 93 **DIST/DIR:** 0.15 SE **ELEVATION:** 5238 **MAP ID:** 37

NAME: KALAMATH ASSOCIATES PROPERTY
ADDRESS: 570 KALAMATH ST
DENVER CO 80204
CONTACT:
SOURCE: COSTIS

REV: 04/01/11
ID1: 13757
ID2:
STATUS:
PHONE:

OWNER INFORMATION

OWNER ID NUMBER: 17442
OWNER NAME: 6TH and KALAMATH ASSOCIATES PROPERTY;
OWNER ADDRESS: 570 KALAMATH ST
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13757

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 91 **DIST/DIR:** 0.15 N- **ELEVATION:** 5232 **MAP ID:** 38

NAME: FUEL FACILITY
ADDRESS: 775 MARIPOSA
DENVER CO 80204

REV: 04/01/11
ID1: 4061
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 5985
OWNER NAME: CENTRAL UNITED LIFE INSURANCE;
OWNER ADDRESS: 417 COMMERCE BUILDING
SIOUX CITY IA 51101

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 999999999
TANK ID: 11428
TANK TAG: 4061-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=4061

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 108 **DIST/DIR:** 0.15 NE **ELEVATION:** 5238 **MAP ID:** 39

NAME: STAND BY INC
ADDRESS: 665 KALAMATH ST
DENVER CO 80204

REV: 04/01/11
ID1: 6489
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 1160
OWNER NAME: WALKER; CARLENE
OWNER ADDRESS: 665 KALAMATH ST
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 17280
TANK TAG: 6489-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 17281
TANK TAG: 6489-2

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6489

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 148 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: SOUTHERN PACIFIC RAILWAY BURNHAM YARD
ADDRESS: 800 SEMINOLE RD
DENVER CO 80201
DENVER

REV: 04/04/11
ID1: 447
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/9/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=447

LUST

SEARCH ID: 147 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: SOUTHERN PACIFIC RAILWAY - BURNHAM YARD
ADDRESS: 800 SEMINOLE RD
DENVER CO 80201
DENVER

REV: 04/04/11
ID1: 442
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 12/4/1995

LINK: http://costis.cdle.state.co.us/event.asp?h_id=442

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 30 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: DENVER and RIO GRANDE WESTERN RAILROAD
ADDRESS: 8TH and OSAGE
DENVER CO 80217
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COD000706770
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D000
D001 - Ignitable waste
D002 - Corrosive waste

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 39 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: 14 EAST ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: DAVID ROSS SOURCE: NRC</p>	<p>REV: 12/31/05 ID1: NRC-766747 ID2: STATUS: RAILROAD PHONE: 8888777267</p>
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED: 7/25/2005 5:37:36 PM	7/25/2005 5:11:40 PM	DATE COMPLETE:
CALL TAKER:	KWC2316	CALL TYPE: INC

RESPONSIBLE PARTY: DAVID ROSS
PHONE 1: 8888777267 PRIMARY
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY: UNION PACIFIC RAILROAD
ORGANIZATION TYPE: PRIVATE ENTERPRISE

ADDRESS: 1400 DOUGLAS
OMAHA NE 68179

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: THE CALLER IS REPORTING A RELEASE OF DIESEL FUEL INTO A SECONDARY CONTAINMENT AREA FROM A LOCOMOTIVE DUE TO UNKNOWN CAUSES.

INCIDENT TYPE:	RAILROAD	INCIDENT CAUSE:	UNKNOWN
INCIDENT DATE:	7/25/2005 12:30:00 PM	INCIDENT DATE DESC:	
OCCURRED			

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

<p>AIRCRAFT TYPE: AIRCRAFT ID: AIRCRAFT FUEL CAPACITY UNITS: AIRCRAFT FUEL ON BOARD UNITS: AIRCRAFT HANGER: ROAD MILE MARKER: TYPE OF FIXED OBJECT: GENERATING CAPACITY: NPDES: PIPELINE TYPE: PIPELINE ABOVE GROUND: ABOVE PIPELINE COVERED: U LOCATION SUBDIVISION: COLORADO SPRINGS TYPE VEHICLE INVOLVED: DEVICE OPERATIONAL: Y</p>	<p>AIRCRAFT MODEL: AIRCRAFT FUEL CAPACITY: AIRCRAFT FUEL ON BOARD: AIRCRAFT SPOT NUMBER: AIRCRAFT RUNWAY NUM: BUILDING ID: POWER GEN FACILITY: U TYPE OF FUEL: NPDES COMPLIANCE: U DOT REGULATED: U EXPOSED UNDERWATER: N GRADE CROSSING: N RAILROAD MILEPOST: CROSSING DEVICE TYPE: BRAKE FAILURE: N</p>
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- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 39 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: 14 EAST ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: DAVID ROSS SOURCE: NRC</p>	<p>REV: 12/31/05 ID1: NRC-766747 ID2: STATUS: RAILROAD PHONE: 8888777267</p>
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TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	U
TANK REGULATED:	U	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

<p>OCSG NUMBER: STATE LEASE NUMBER: BERTH SLIP NUMBER: INITIAL CONT RELEASE NUM: ALLISION: N STRUCTURE NAME: AIRBAG DEPLOYED: SERVICE DISRUPT TIME: TRANSIT BUS FLAG: CR END DATE:</p>	<p>OCSG NUMBER: PIER DOCK NUMBER: CONTIN RELEASE TYPE: CONT RELEASE PERMIT: TYPE OF STRUCTURE: STRUCT OPERATIONAL: U DATE NORMAL SERVICE: SERVICE DISRUPT UNITS: CR BEGIN DATE: CR CHANGE DATE:</p>
<p>FIRE INVOLVED: N ANY EVACUATIONS: N WHO EVACUATED: ANY INJURIES: N NUMBER HOSPITALIZED: NUMBER FATALITIES: DAMAGE AMOUNT: AIR CORRIDOR DESC: WATERWAY CLOSED: N WATERWAY CLOSURE TIME: ROAD DESC: CLOSURE DIRECTION:</p>	<p>FIRE EXTINGUISHED: U NUMBER EVACUATED: RADIUS OF EVACUATION: NUMBER INJURED: ANY FATALITIES: N ANY DAMAGES: N AIR CORRIDOR CLOSED: N AIR CLOSURE TIME: WATERWAY DESC: ROAD CLOSED: N ROAD CLOSURE TIME: MAJOR ARTERY: N</p>
<p>TRACK CLOSED: N TRACK CLOSURE TIME: MEDIUM DESC: LAND BODY OF WATER: NEAREST RIVER MILE MARK: EST DUR OF RELEASE: TRACK CLOSE DIR: ST AGENCY RPT NUM: WEATHER CONDITIONS: CLEAR WIND SPEED: WATER SUPPLY CONTAM: U SHEEN COLOR: SHEEN ODOR DESCRIPTION: CURRENT SPEED: WATER TEMPERATURE:</p>	<p>TRACK DESC: MEDIA INTEREST: NONE ADDTL MEDIUM INFO: SECONDARY CONTAINMENT TRIBUTARY OF: RELEASE SECURED: Y RELEASE RATE: ST AGENCY ON SCENE: OTHER AGENCY NOTIFIED: AIR TEMPERATURE: 81 WIND DIRECTION: SHEEN SIZE: DIR OF SHEEN TRAVEL: WAVE CONDITION: CURRENT DIRECTION:</p>

DESC OF REMEDIAL ACTION: MATERIAL SPILLED INTO SECOND CONTAINMENT

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 39 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: 14 EAST	REV: 12/31/05
ADDRESS: 800 SEMINOLE RD	ID1: NRC-766747
DENVER CO	ID2:
DENVER	STATUS: RAILROAD
CONTACT: DAVID ROSS	PHONE: 8888777267
SOURCE: NRC	

COMMUNITY IMPACT:	N	WIND SPEED UNITS:
EMPLOYEE INJURIES:		PASSENGER INJURIES:
OCCUPANT FATALITY:		CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:
FED AGENCY NOTIFIED:		NEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:
OFFSHORE:	N	DURATION UNIT:
RELEASE RATE UNIT:		RELEASE RATE RATE:

ADDITIONAL INFO: THE CALLER HAD NO ADDITIONAL INFORMATION

MATERIAL INFORMATION

CHRIS CODE:	ODS	CASE NUMBER:	000000-00-0
UN NUMBER:		REACHED WATER:	NO
NAME OF MATERIAL:	OIL: DIESEL		
AMOUNT OF MATERIAL:	1500 GALLON(S)		
AMOUNT IN WATER:			

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

TRAIN NAME/NUMBER:	UP7174	RAILROAD NAME:	UNION PACIFIC RAILROAD
TRAIN TYPE:	LOCOMOTIVE	TRACK SPEED:	
TRAIN SPEED:		TRAIN DIRECTION:	
NUMBER OF LOCOMOTIVES:		NUMBER OF CARS:	
NUMBER DERAILED:		NON COMPLIANCE WITH HAZMAT:	N

VESSEL INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 40 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: BURN HAM RAIL YARD ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: SOURCE: NRC	REV: 12/31/06 ID1: NRC-803644 ID2: STATUS: RAILROAD PHONE:
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED: 7/10/2006 7:34:23 PM	7/10/2006 7:28:59 PM	DATE COMPLETE:
CALL TAKER:	CALL TYPE:	INC

RESPONSIBLE PARTY:
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
 XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: CENTRAL TIME // CALLER REPORTING A TRANSFER PUMP IN THE FUELING FACILITY RUPTURED DUE UNKNOWN CAUSES. THIS CAUSED MATERIAL TO BE RELEASED TO THE SOIL AND BALLAST.

INCIDENT TYPE:	RAILROAD	INCIDENT CAUSE:	UNKNOWN
INCIDENT DATE:	7/10/2006 5:30:00 PM	INCIDENT DATE DESC:	
OCCURRED			

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

AIRCRAFT TYPE: AIRCRAFT ID: AIRCRAFT FUEL CAPACITY UNITS: AIRCRAFT FUEL ON BOARD UNITS: AIRCRAFT HANGER: ROAD MILE MARKER: TYPE OF FIXED OBJECT: GENERATING CAPACITY: NPDES: PIPELINE TYPE: PIPELINE ABOVE GROUND: ABOVE PIPELINE COVERED: UNKNOWN LOCATION SUBDIVISION: TYPE VEHICLE INVOLVED: DEVICE OPERATIONAL: YES DOT CROSSING NUMBER:	AIRCRAFT MODEL: AIRCRAFT FUEL CAPACITY: AIRCRAFT FUEL ON BOARD: AIRCRAFT SPOT NUMBER: AIRCRAFT RUNWAY NUM: BUILDING ID: POWER GEN FACILITY: UNKNOWN TYPE OF FUEL: NPDES COMPLIANCE: UNKNOWN DOT REGULATED: UNKNOWN EXPOSED UNDERWATER: NO GRADE CROSSING: NO RAILROAD MILEPOST: CROSSING DEVICE TYPE: BRAKE FAILURE: NO
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- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 40 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: BURN HAM RAIL YARD ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: SOURCE: NRC</p>	<p>REV: 12/31/06 ID1: NRC-803644 ID2: STATUS: RAILROAD PHONE:</p>
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TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	UNKNOWN
TANK REGULATED:	UNKNOWN	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

OCSG NUMBER:		OCSF NUMBER:	
STATE LEASE NUMBER:		PIER DOCK NUMBER:	
BERTH SLIP NUMBER:		CONTIN RELEASE TYPE:	
INITIAL CONT RELEASE NUM:		CONT RELEASE PERMIT:	
ALLISION:	NO	TYPE OF STRUCTURE:	
STRUCTURE NAME:		STRUCT OPERATIONAL:	UNKNOWN
AIRBAG DEPLOYED:		DATE NORMAL SERVICE:	
SERVICE DISRUPT TIME:		SERVICE DISRUPT UNITS:	
TRANSIT BUS FLAG:		CR BEGIN DATE:	
CR END DATE:		CR CHANGE DATE:	
FIRE INVOLVED:	NO	FIRE EXTINGUISHED:	UNKNOWN
ANY EVACUATIONS:	NO	NUMBER EVACUATED:	
WHO EVACUATED:		RADIUS OF EVACUATION:	
ANY INJURIES:	NO	NUMBER INJURED:	
NUMBER HOSPITALIZED:		ANY FATALITIES:	NO
NUMBER FATALITIES:		ANY DAMAGES:	NO
DAMAGE AMOUNT:		AIR CORRIDOR CLOSED:	NO
AIR CORRIDOR DESC:		AIR CLOSURE TIME:	
WATERWAY CLOSED:	NO	WATERWAY DESC:	
WATERWAY CLOSURE TIME:		ROAD CLOSED:	NO
ROAD DESC:		ROAD CLOSURE TIME:	
CLOSURE DIRECTION:		MAJOR ARTERY:	NO
TRACK CLOSED:	NO	TRACK DESC:	
TRACK CLOSURE TIME:		MEDIA INTEREST:	NONE
MEDIUM DESC:	SOIL	ADDTL MEDIUM INFO:	SOIL / BALLAST
BODY OF WATER:		TRIBUTARY OF:	
NEAREST RIVER MILE MARK:		RELEASE SECURED:	NO
EST DUR OF RELEASE:		RELEASE RATE:	
TRACK CLOSE DIR:		ST AGENCY ON SCENE:	
ST AGENCY RPT NUM:	NONE	OTHER AGENCY NOTIFIED:	
WEATHER CONDITIONS:	PARTLY CLOUDY	AIR TEMPERATURE:	81
WIND SPEED:		WIND DIRECTION:	
WATER SUPPLY CONTAM:	UNKNOWN	SHEEN SIZE:	
SHEEN COLOR:		DIR OF SHEEN TRAVEL:	
SHEEN ODOR DESCRIPTION:		WAVE CONDITION:	
CURRENT SPEED:		CURRENT DIRECTION:	
WATER TEMPERATURE:			

DESC OF REMEDIAL ACTION: MATERIAL CONTAINED WITHIN BALLAST / CONTRACTOR EN ROUTE

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 40 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: BURN HAM RAIL YARD	REV: 12/31/06
ADDRESS: 800 SEMINOLE RD	ID1: NRC-803644
DENVER CO	ID2:
DENVER	STATUS: RAILROAD
CONTACT:	PHONE:
SOURCE: NRC	

COMMUNITY IMPACT:	NO	WIND SPEED UNITS:	
EMPLOYEE INJURIES:		PASSENGER INJURIES:	
OCCUPANT FATALITY:		CURRENT SPEED UNITS:	
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:	
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:	DEM
FED AGENCY NOTIFIED:		NEAREST RIVER MILE MARK:	
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:	
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:	
OFFSHORE:	N	DURATION UNIT:	
RELEASE RATE UNIT:		RELEASE RATE RATE:	

ADDITIONAL INFO: NONE FURTHER

MATERIAL INFORMATION

CHRIS CODE:	ODS	CASE NUMBER:	000000-00-0
UN NUMBER:		REACHED WATER:	NO

NAME OF MATERIAL:	OIL: DIESEL
AMOUNT OF MATERIAL:	500 GALLON(S)
AMOUNT IN WATER:	

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

VESSEL INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 63 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD	REV: 07/06/09
ADDRESS: 800 SEMINOLE RD	ID1: 2009-0038
DENVER CO 80204	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

PRP INFORMATION

PRP NAME:	UNION PACIFIC RAILROAD
PRP CONTACT:	KAREN MARTINEZ
PRP ADDRESS:	1400 DOUGLAS ST OMAHA CO 68179

SPILL INFORMATION

EVENT DATE: 1/29/2009
MATERIAL TYPE: OIL

MATERIAL1: OIL/WATER MIXTURE
QUANTITY1: 50 GALLONS
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: RAILWAY
SOURCE TYPE: RAILROAD/TRAIN
MEDIUM: LAND

WATERWAY:
CAUSE: UNKNOWN
CAUSE INFO: DUE TO UNKNOWN CAUSES AN OIL/WATER MIXTURE WAS DISCOVERED SPILLED AT
A UP RAIL YARD FACILITY IN THE CITY and COUNTY OF DENVER

ACTION: BELFOR ENVIRONMENTAL IS ON SCENE PERFORMING CLEANUP OF ALL IMPACTED AREAS.

RESPONSE COMMENTS: NO WATERWAYS WERE IMPACTED.

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 47 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: ON THE LOADING DOCK ADDRESS: 800 SEMINOLE RD DENVER CO 80204 DENVER CONTACT: GILBER (EXT 3342) SANDOVAL SOURCE: NRC	REV: 12/31/03 ID1: NRC-704760 ID2: STATUS: FIXED PHONE: 3035756910
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED: 11/7/2003 7:52:06 PM	11/7/2003 7:45:34 PM	DATE COMPLETE:
CALL TAKER:	VSW9534	CALL TYPE: INC

RESPONSIBLE PARTY:	GILBER (EXT 3342) SANDOVAL
PHONE 1:	3035756910 PRIMARY
PHONE 2:	
PHONE 3:	

RESPONSIBLE COMPANY:	GENERAL ELECTRIC
ORGANIZATION TYPE:	PRIVATE ENTERPRISE

ADDRESS:	800 SEMINOLE ROAD DENVER CO 80204
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SOURCE:	TELEPHONE
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INCIDENT INFORMATION

INCIDENT DESCRIPTION: CALLER STATED THAT THEY WERE LOADING A BATTERY ONTO A PALLET. DURING THIS OPERATION THE BATTERY FELL ON THE FLOOR, RELEASING BATTERY ACID ONTO THE GROUND.

INCIDENT TYPE:	FIXED	INCIDENT CAUSE:	OPERATOR ERROR
INCIDENT DATE:	11/7/2003 5:40:00 PM	INCIDENT DATE DESC:	
OCCURRED			

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

AIRCRAFT TYPE:	AIRCRAFT MODEL:
AIRCRAFT ID:	AIRCRAFT FUEL CAPACITY:
AIRCRAFT FUEL CAPACITY UNITS:	AIRCRAFT FUEL ON BOARD:
AIRCRAFT FUEL ON BOARD UNITS:	AIRCRAFT SPOT NUMBER:
AIRCRAFT HANGER:	AIRCRAFT RUNWAY NUM:
ROAD MILE MARKER:	BUILDING ID:
TYPE OF FIXED OBJECT:	POWER GEN FACILITY: N
GENERATING CAPACITY:	TYPE OF FUEL:
NPDES:	NPDES COMPLIANCE: U
PIPELINE TYPE:	DOT REGULATED: U
PIPELINE ABOVE GROUND:	EXPOSED UNDERWATER: N
PIPELINE COVERED:	GRADE CROSSING: N
LOCATION SUBDIVISION:	RAILROAD MILEPOST:
TYPE VEHICLE INVOLVED:	CROSSING DEVICE TYPE:
DEVICE OPERATIONAL:	Y
DOT CROSSING NUMBER:	BRAKE FAILURE: N

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 47 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: ON THE LOADING DOCK	REV: 12/31/03
ADDRESS: 800 SEMINOLE RD	ID1: NRC-704760
DENVER CO 80204	ID2:
DENVER	STATUS: FIXED
CONTACT: GILBER (EXT 3342) SANDOVAL	PHONE: 3035756910
SOURCE: NRC	

TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	U
TANK REGULATED:	U	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

OCSG NUMBER:	OCSF NUMBER:
STATE LEASE NUMBER:	PIER DOCK NUMBER:
BERTH SLIP NUMBER:	CONTIN RELEASE TYPE:
INITIAL CONT RELEASE NUM:	CONT RELEASE PERMIT:
ALLISION: N	TYPE OF STRUCTURE:
STRUCTURE NAME:	STRUCT OPERATIONAL: U
AIRBAG DEPLOYED:	DATE NORMAL SERVICE:
SERVICE DISRUPT TIME:	SERVICE DISRUPT UNITS:
TRANSIT BUS FLAG:	CR BEGIN DATE:
CR END DATE:	CR CHANGE DATE:
FIRE INVOLVED: N	FIRE EXTINGUISHED: U
ANY EVACUATIONS: N	NUMBER EVACUATED:
WHO EVACUATED:	RADIUS OF EVACUATION:
ANY INJURIES: N	NUMBER INJURED:
NUMBER HOSPITALIZED:	ANY FATALITIES: N
NUMBER FATALITIES:	ANY DAMAGES: N
DAMAGE AMOUNT:	AIR CORRIDOR CLOSED: N
AIR CORRIDOR DESC:	AIR CLOSURE TIME:
WATERWAY CLOSED: N	WATERWAY DESC:
WATERWAY CLOSURE TIME:	ROAD CLOSED: N
ROAD DESC:	ROAD CLOSURE TIME:
CLOSURE DIRECTION:	MAJOR ARTERY: N
TRACK CLOSED: N	TRACK DESC:
TRACK CLOSURE TIME:	MEDIA INTEREST: NONE
MEDIUM DESC: LAND	ADDTL MEDIUM INFO: SOIL
BODY OF WATER:	TRIBUTARY OF:
NEAREST RIVER MILE MARK:	RELEASE SECURED: N
EST DUR OF RELEASE:	RELEASE RATE:
TRACK CLOSE DIR:	ST AGENCY ON SCENE:
ST AGENCY RPT NUM:	OTHER AGENCY NOTIFIED:
WEATHER CONDITIONS: CLEAR	AIR TEMPERATURE:
WIND SPEED:	WIND DIRECTION:
WATER SUPPLY CONTAM: U	SHEEN SIZE:
SHEEN COLOR:	DIR OF SHEEN TRAVEL:
SHEEN ODOR DESCRIPTION:	WAVE CONDITION:
CURRENT SPEED:	CURRENT DIRECTION:
WATER TEMPERATURE:	
DESC OF REMEDIAL ACTION: NONE	
EMPL FATALITY:	PASS FATALITY:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 47 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: ON THE LOADING DOCK	REV: 12/31/03
ADDRESS: 800 SEMINOLE RD	ID1: NRC-704760
DENVER CO 80204	ID2:
DENVER	STATUS: FIXED
CONTACT: GILBER (EXT 3342) SANDOVAL	PHONE: 3035756910
SOURCE: NRC	

COMMUNITY IMPACT: N	WIND SPEED UNITS:
EMPLOYEE INJURIES:	PASSENGER INJURIES:
OCCUPANT FATALITY:	CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:	TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:	STATE AGENCY NOTIFIED:
FED AGENCY NOTIFIED:	NEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:	SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:	SHEEN SIZE WIDTH UNITS:
OFFSHORE: N	DURATION UNIT:
RELEASE RATE UNIT:	RELEASE RATE RATE:

ADDITIONAL INFO: CALLER REQUESTS ADVICE ON HOW TO CLEAN THIS SPILL.

MATERIAL INFORMATION

CHRIS CODE: NCC	CASE NUMBER: 000000-00-0
UN NUMBER:	REACHED WATER: NO
NAME OF MATERIAL: BATTERY ACID	
AMOUNT OF MATERIAL: 0 UNKNOWN AMOUNT	
AMOUNT IN WATER:	

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

VESSEL INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 79 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: BURNHAM SHOPS ADDRESS: 800 SEMINOLE RD DENVER CO 80204 DENVER CONTACT: SOURCE: COSTIS</p>	<p>REV: 04/01/11 ID1: 974 ID2: STATUS: PHONE:</p>
--	--

OWNER INFORMATION

OWNER ID NUMBER: 5458
OWNER NAME:
OWNER ADDRESS: 280 South 400 West
SALT LAKE CITY UT 84101

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 20000
TANK ID: 2830
TANK TAG: 974-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 2831
TANK TAG: 974-2

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 1000
TANK ID: 2832
TANK TAG: 974-3

TANK TYPE: AST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 2833
TANK TAG: 974-4

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 5000
TANK ID: 2834
TANK TAG: 974-5

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 10000
TANK ID: 2835
TANK TAG: 974-6

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 79 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: BURNHAM SHOPS ADDRESS: 800 SEMINOLE RD DENVER CO 80204 DENVER CONTACT: SOURCE: COSTIS</p>	<p>REV: 04/01/11 ID1: 974 ID2: STATUS: PHONE:</p>
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TANK CAPACITY: 10000
TANK ID: 2836
TANK TAG: 974-7

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2837
TANK TAG: 974-8

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2838
TANK TAG: 974-9

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2839
TANK TAG: 974-10

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2840
TANK TAG: 974-11

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2841
TANK TAG: 974-12

TANK TYPE: AST
TANK CONTENTS: 7 - Lube Oil
TANK CAPACITY: 10000
TANK ID: 2842
TANK TAG: 974-13

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 35000
TANK ID: 2843
TANK TAG: 974-14

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 79 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: BURNHAM SHOPS **REV:** 04/01/11
ADDRESS: 800 SEMINOLE RD **ID1:** 974
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

TANK TYPE: AST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 16800
TANK ID: 35503
TANK TAG: 974-15

TANK TYPE: AST
TANK CONTENTS: Diesel 2
TANK CAPACITY: 20000
TANK ID: 41469
TANK TAG: 974-17

TANK TYPE: AST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 11800
TANK ID: 41629
TANK TAG: 974-18

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=974

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 42 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME:	IN THE RAILYARD OF THE BURHAM SHOP	REV:	12/31/06
ADDRESS:	800 SEMINOLE RD DENVER CO 80204 DENVER	ID1:	NRC-800346
CONTACT:		ID2:	
SOURCE:	NRC	STATUS:	STORAGE TANK
		PHONE:	

SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:	6/12/2006 10:16:51 AM	DATE COMPLETE:	
6/12/2006 10:21:31 AM			
CALL TAKER:		CALL TYPE:	INC

RESPONSIBLE PARTY:
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: CALLER STATED THAT DIESEL FUEL WASTE WAS RELEASED FROM A DIESEL FUEL HOLDING TANK ONTO THE GROUND DUE TO UNKNOWN CAUSES.

INCIDENT TYPE:	STORAGE TANK	INCIDENT CAUSE:	UNKNOWN
INCIDENT DATE:	6/12/2006 8:49:00 AM	INCIDENT DATE DESC:	
DISCOVERED			

DISTANCE FROM CITY:		DISTANCE UNITS:	
DIRECTION FROM CITY:		LOCATION SECTION:	
LOCATION TOWNSHIP:		LOCATION RANGE:	

AIRCRAFT TYPE:		AIRCRAFT MODEL:	
AIRCRAFT ID:		AIRCRAFT FUEL CAPACITY:	
AIRCRAFT FUEL CAPACITY UNITS:		AIRCRAFT FUEL ON BOARD:	
AIRCRAFT FUEL ON BOARD UNITS:		AIRCRAFT SPOT NUMBER:	
AIRCRAFT HANGER:		AIRCRAFT RUNWAY NUM:	
ROAD MILE MARKER:		BUILDING ID:	
TYPE OF FIXED OBJECT:		POWER GEN FACILITY:	UNKNOWN
GENERATING CAPACITY:		TYPE OF FUEL:	
NPDES:		NPDES COMPLIANCE:	UNKNOWN
PIPELINE TYPE:		DOT REGULATED:	UNKNOWN
PIPELINE ABOVE GROUND:	ABOVE	EXPOSED UNDERWATER:	NO
PIPELINE COVERED:	UNKNOWN	GRADE CROSSING:	NO
LOCATION SUBDIVISION:		RAILROAD MILEPOST:	
TYPE VEHICLE INVOLVED:		CROSSING DEVICE TYPE:	
DEVICE OPERATIONAL:	YES		
DOT CROSSING NUMBER:		BRAKE FAILURE:	NO

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 42 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: IN THE RAILYARD OF THE BURHAM SHOP ADDRESS: 800 SEMINOLE RD DENVER CO 80204 DENVER CONTACT: SOURCE: NRC</p>	<p>REV: 12/31/06 ID1: NRC-800346 ID2: STATUS: STORAGE TANK PHONE:</p>
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TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	UNKNOWN
TANK REGULATED:	UNKNOWN	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK: STORAGE TANK

OCSG NUMBER:		OCSF NUMBER:	
STATE LEASE NUMBER:		PIER DOCK NUMBER:	
BERTH SLIP NUMBER:		CONTIN RELEASE TYPE:	
INITIAL CONT RELEASE NUM:		CONT RELEASE PERMIT:	
ALLISION:	NO	TYPE OF STRUCTURE:	
STRUCTURE NAME:		STRUCT OPERATIONAL:	UNKNOWN
AIRBAG DEPLOYED:		DATE NORMAL SERVICE:	
SERVICE DISRUPT TIME:		SERVICE DISRUPT UNITS:	
TRANSIT BUS FLAG:		CR BEGIN DATE:	
CR END DATE:		CR CHANGE DATE:	

FIRE INVOLVED:	NO	FIRE EXTINGUISHED:	UNKNOWN
ANY EVACUATIONS:	NO	NUMBER EVACUATED:	
WHO EVACUATED:		RADIUS OF EVACUATION:	
ANY INJURIES:	NO	NUMBER INJURED:	
NUMBER HOSPITALIZED:		ANY FATALITIES:	NO
NUMBER FATALITIES:		ANY DAMAGES:	NO
DAMAGE AMOUNT:		AIR CORRIDOR CLOSED:	NO
AIR CORRIDOR DESC:		AIR CLOSURE TIME:	
WATERWAY CLOSED:	NO	WATERWAY DESC:	
WATERWAY CLOSURE TIME:		ROAD CLOSED:	NO
ROAD DESC:		ROAD CLOSURE TIME:	
CLOSURE DIRECTION:		MAJOR ARTERY:	NO

TRACK CLOSED:	NO	TRACK DESC:	
TRACK CLOSURE TIME:		MEDIA INTEREST:	NONE
MEDIUM DESC:	LAND	ADDTL MEDIUM INFO:	GROUND
BODY OF WATER:		TRIBUTARY OF:	
NEAREST RIVER MILE MARK:		RELEASE SECURED:	YES
EST DUR OF RELEASE:		RELEASE RATE:	
TRACK CLOSE DIR:		ST AGENCY ON SCENE:	
ST AGENCY RPT NUM:	NO REPORT	OTHER AGENCY NOTIFIED:	
WEATHER CONDITIONS:	SUNNY	AIR TEMPERATURE:	64
WIND SPEED:		WIND DIRECTION:	
WATER SUPPLY CONTAM:	UNKNOWN	SHEEN SIZE:	
SHEEN COLOR:		DIR OF SHEEN TRAVEL:	
SHEEN ODOR DESCRIPTION:		WAVE CONDITION:	
CURRENT SPEED:		CURRENT DIRECTION:	
WATER TEMPERATURE:			

DESC OF REMEDIAL ACTION: CUSTOM ENVIRONMENTAL WERE CONTRACTED FOR CLEAN UP

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 42 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: IN THE RAILYARD OF THE BURHAM SHOP	REV: 12/31/06
ADDRESS: 800 SEMINOLE RD	ID1: NRC-800346
DENVER CO 80204	ID2:
DENVER	STATUS: STORAGE TANK
CONTACT:	PHONE:
SOURCE: NRC	

COMMUNITY IMPACT: NO	WIND SPEED UNITS:
EMPLOYEE INJURIES:	PASSENGER INJURIES:
OCCUPANT FATALITY:	CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:	TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:	STATE AGENCY NOTIFIED: PUBLIC HEALTH, DEM
FED AGENCY NOTIFIED:	NEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:	SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:	SHEEN SIZE WIDTH UNITS:
OFFSHORE: N	DURATION UNIT:
RELEASE RATE UNIT:	RELEASE RATE RATE:

ADDITIONAL INFO: NONE

MATERIAL INFORMATION

CHRIS CODE: OTD	CASE NUMBER: 000000-00-0
UN NUMBER:	REACHED WATER: NO
NAME OF MATERIAL: OIL, FUEL: NO. 2-D	
AMOUNT OF MATERIAL: 0 UNKNOWN AMOUNT	
AMOUNT IN WATER:	

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

VESSEL INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 54 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: SOURCE: NRC	REV: 12/31/07 ID1: NRC-834088 ID2: STATUS: FIXED PHONE:
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:	5/2/2007 8:08:21 AM	DATE COMPLETE:	5/2/2007
8:14:42 AM			
CALL TAKER:	CALL TYPE:		INC

RESPONSIBLE PARTY:
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
 XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: CALLER IS REPORTING A DISCHARGE OF AN UNKNOWN OILY MIXTURE FROM A SKIM BASIN DUE TO UNKNOWN CAUSES.

INCIDENT TYPE:	FIXED	INCIDENT CAUSE:	UNKNOWN
INCIDENT DATE:	5/2/2007 6:38:00 AM	INCIDENT DATE DESC:	
OCCURRED			

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

AIRCRAFT TYPE:	AIRCRAFT MODEL:	
AIRCRAFT ID:	AIRCRAFT FUEL CAPACITY:	
AIRCRAFT FUEL CAPACITY UNITS:	AIRCRAFT FUEL ON BOARD:	
AIRCRAFT FUEL ON BOARD UNITS:	AIRCRAFT SPOT NUMBER:	
AIRCRAFT HANGER:	AIRCRAFT RUNWAY NUM:	
ROAD MILE MARKER:	BUILDING ID:	
TYPE OF FIXED OBJECT:	WATER TREATMENT FACILITY	POWER GEN FACILITY: NO
GENERATING CAPACITY:	TYPE OF FUEL:	

NPDES:	NPDES COMPLIANCE:	UNKNOWN
PIPELINE TYPE:	DOT REGULATED:	UNKNOWN
PIPELINE ABOVE GROUND:	EXPOSED UNDERWATER:	NO
PIPELINE COVERED:	GRADE CROSSING:	UNKNOWN
LOCATION SUBDIVISION:	RAILROAD MILEPOST:	
TYPE VEHICLE INVOLVED:	CROSSING DEVICE TYPE:	

DEVICE OPERATIONAL:	YES	BRAKE FAILURE:	UNKNOWN
DOT CROSSING NUMBER:			

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 54 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME:	REV: 12/31/07
ADDRESS: 800 SEMINOLE RD	ID1: NRC-834088
DENVER CO	ID2:
DENVER	STATUS: FIXED
CONTACT:	PHONE:
SOURCE: NRC	

TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	UNKNOWN
TANK REGULATED:	UNKNOWN	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

OCSG NUMBER:		OCSF NUMBER:	
STATE LEASE NUMBER:		PIER DOCK NUMBER:	
BERTH SLIP NUMBER:		CONTIN RELEASE TYPE:	
INITIAL CONT RELEASE NUM:		CONT RELEASE PERMIT:	
ALLISION:	UNKNOWN	TYPE OF STRUCTURE:	
STRUCTURE NAME:		STRUCT OPERATIONAL:	UNKNOWN
AIRBAG DEPLOYED:	UNKNOWN	DATE NORMAL SERVICE:	
SERVICE DISRUPT TIME:		SERVICE DISRUPT UNITS:	
TRANSIT BUS FLAG:		CR BEGIN DATE:	
CR END DATE:		CR CHANGE DATE:	

FIRE INVOLVED:	NO	FIRE EXTINGUISHED:	UNKNOWN
ANY EVACUATIONS:	NO	NUMBER EVACUATED:	
WHO EVACUATED:		RADIUS OF EVACUATION:	
ANY INJURIES:	NO	NUMBER INJURED:	
NUMBER HOSPITALIZED:		ANY FATALITIES:	NO
NUMBER FATALITIES:		ANY DAMAGES:	NO
DAMAGE AMOUNT:		AIR CORRIDOR CLOSED:	NO
AIR CORRIDOR DESC:		AIR CLOSURE TIME:	
WATERWAY CLOSED:	NO	WATERWAY DESC:	
WATERWAY CLOSURE TIME:		ROAD CLOSED:	NO
ROAD DESC:		ROAD CLOSURE TIME:	
CLOSURE DIRECTION:		MAJOR ARTERY:	NO

TRACK CLOSED:	NO	TRACK DESC:	
TRACK CLOSURE TIME:		MEDIA INTEREST:	NONE
MEDIUM DESC:	WATER	ADDTL MEDIUM INFO:	/ STORM SEWER / GUTTER
BODY OF WATER:	STORM SEWER	TRIBUTARY OF:	UNKNOWN
NEAREST RIVER MILE MARK:		RELEASE SECURED:	YES
EST DUR OF RELEASE:		RELEASE RATE:	
TRACK CLOSE DIR:		ST AGENCY ON SCENE:	
ST AGENCY RPT NUM:	NO REPORT	OTHER AGENCY NOTIFIED:	
WEATHER CONDITIONS:	PARTLY CLOUDY	AIR TEMPERATURE:	48
WIND SPEED:	4	WIND DIRECTION:	W
WATER SUPPLY CONTAM:	UNKNOWN	SHEEN SIZE:	
SHEEN COLOR:		DIR OF SHEEN TRAVEL:	
SHEEN ODOR DESCRIPTION:		WAVE CONDITION:	
CURRENT SPEED:		CURRENT DIRECTION:	
WATER TEMPERATURE:			

DESC OF REMEDIAL ACTION: INVESTIGATION UNDERWAY

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 54 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME:		REV:	12/31/07
ADDRESS:	800 SEMINOLE RD	ID1:	NRC-834088
	DENVER CO	ID2:	
	DENVER	STATUS:	FIXED
CONTACT:		PHONE:	
SOURCE:	NRC		

COMMUNITY IMPACT:		WIND SPEED UNITS:	MPH
EMPLOYEE INJURIES:		PASSENGER INJURIES:	
OCCUPANT FATALITY:		CURRENT SPEED UNITS:	
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:	
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:	CO DEM, CO PUC, CO DPHE
FED AGENCY NOTIFIED:	NONE	NEAREST RIVER MILE MARK:	
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:	
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:	
OFFSHORE:	N	DURATION UNIT:	
RELEASE RATE UNIT:		RELEASE RATE RATE:	

ADDITIONAL INFO: CALLER HAD NO ADDITIONAL INFORMATION.

MATERIAL INFORMATION

CHRIS CODE:	OUN	CASE NUMBER:	000000-00-0
UN NUMBER:		REACHED WATER:	YES
NAME OF MATERIAL:	UNKNOWN OILY MIXTURE		
AMOUNT OF MATERIAL:	0 UNKNOWN AMOUNT		
AMOUNT IN WATER:	0 UNKNOWN AMOUNT		

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

VESSEL INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 65 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UPRR	REV: 07/06/09
ADDRESS: 800 SEMINOLE RD	ID1: 2009-0020
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

PRP INFORMATION

PRP NAME:	UPRR
PRP CONTACT:	SHANDA
PRP ADDRESS:	1400 DOUGLAS ST
	OMAHA NE 68179

SPILL INFORMATION

EVENT DATE:	1/15/2009
MATERIAL TYPE:	OIL

MATERIAL1:	DIESEL FUEL
QUANTITY1:	50 GALLONS
WATER QUANTITY1:	

MATERIAL2:	
QUANTITY2:	
WATER QUANTITY2:	

MATERIAL3:	
QUANTITY3:	
WATER QUANTITY3:	

SOURCE:	RAILWAY
SOURCE TYPE:	RAILROAD/TRAIN
MEDIUM:	LAND
WATERWAY:	

CAUSE:	FAILURE EQUIPMENT
CAUSE INFO:	mechanical problems resulted in a spill of 50 gallons of diesel fuel tfrom a locomotive o the track, ballast, and ground. No involvement of waterways.

ACTION: Called Belfor for clean up, hopefully will start today.

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 156 **DIST/DIR:** 0.16 NW **ELEVATION:** **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD **REV:** 03/31/11
ADDRESS: 800 SEMINOLE RD, A LOCOMOTIVE SHOP **ID1:** 2011-0056
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: CDPHE

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: SHAWN PRICE
PRP ADDRESS: 1400 DOUGLAS ST
OMAHA NE 68179

SPILL INFORMATION

EVENT DATE: 2/4/2011
MATERIAL TYPE: OIL

MATERIAL1: NEW OIL
QUANTITY1: 1000 GALLONS
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: ABOVE GROUND STORAGE TANK
SOURCE TYPE: Locomotive Shop and Yard
MEDIUM: LAND

WATERWAY:
CAUSE: NATURAL PHENOMENON
CAUSE INFO: Valve on the tank froze and failed, resulting in release of 500-1000 gallons of new oil. No waterways were impacted. The spill is reported to be contained. // 3/15/11 we had a report that there was impact to a concrete channel near the Sears Outlet St

ACTION: Hazmat manager has been notified.

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 157 **DIST/DIR:** 0.16 NW **ELEVATION:** **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD **REV:** 03/31/11
ADDRESS: 800 SEMINOLE ROAD **ID1:** 2011-0058
DENVER CO **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: CDPHE

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: PAMELA LUTTRELL
PRP ADDRESS: 1400 DOUGLAS ST.
OMAHA NE 68179

SPILL INFORMATION

EVENT DATE: 2/6/2011
MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL1: WASTEWATER
QUANTITY1: 6000 GALLONS
WATER QUANTITY1: 6000 GALLONS

MATERIAL2: UNKNOWN OIL
QUANTITY2: 300 GALLONS
WATER QUANTITY2: 300 G

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: SEWER SYSTEM
SOURCE TYPE: WASTEWATER TREATMENT PLANT
MEDIUM: WATER
WATERWAY: STORM SEWER-->NEARBY DITCH
CAUSE: FAILURE EQUIPMENT
CAUSE INFO: DUE TO UNKNOWN CAUSES, A WASTEWATER TREATMENT PLANT OVERFLOWED AND AN OIL/WATER MIXTURE WAS RELEASED.

ACTION: BELFOR ENVIRONMENTAL RESPONDED AND CONTAINED ALL THE RELEASED MATERIAL IN A DITCH AREA NEAR 6TH and OSAGE ST. VAC TRUCK BEING USED TO RECOVER RELEASED MATERIAL. THE CAUSE OF THE OVERFLOW AT THE TREATMENT PLANT IS STILL UNDER INVESTIGATION, HOWEVER ALL FLOW

RESPONSE COMMENTS: S. PLATTE RIVER HAS NOT BEEN IMPACTED ACCORDING TO THE RESPONSIBLE PARTY. INITIAL QUANTITY OF RELEASE WAS REPORTED TO BE 30-40 GALLONS AND THOSE QUANTITIES WERE REVISED LATE YESTERDAY AFTERNOON BY THE RP. THE RP HAS BEEN VERY VAGUE WITH INFORMATION CONCERNING

COMMENTS: DENVER ENV HLTH-GARY LASSWELL, BEN SILLER

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 62 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD
ADDRESS: 800 SEMINOLE RD
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV: 07/06/09
ID1: 2008-0675
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: LANE SEKAVEC
PRP ADDRESS: OMAHA NE

SPILL INFORMATION

EVENT DATE: 11/15/2008
MATERIAL TYPE: HAZARDOUS

MATERIAL1: BATTERY ACID
QUANTITY1: 0 UNKNOWN
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: OTHER
SOURCE TYPE: battery for locomotive
MEDIUM: LAND

WATERWAY:
CAUSE: ERROR OPERATOR
CAUSE INFO: A locomotive battery was dropped and broke, spilling battery acid onto the ground . No waterways were involved.

ACTION: Union Pacific will have this cleaned up, either by their employees or a contractor.

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 61 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD
ADDRESS: 800 SEMINOLE RD
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV:
ID1: 2006-132
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: JAY HAMERNICK
PRP ADDRESS:
CO

SPILL INFORMATION

EVENT DATE: 2/13/2006
MATERIAL TYPE: OIL

MATERIAL1: OIL
QUANTITY1: 25 GALLONS
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: RAILWAY
SOURCE TYPE:
MEDIUM: LAND
WATERWAY:

CAUSE: FAILURE EQUIPMENT
CAUSE INFO: INITIAL CALL DID NOT LEAVE SPECIFICS OF INCIDENT, BRITTANY AT UPRR PROVIDED INFO ON MESSAGE AT 2:10 PM,2/14 AFTER SECOND CONTACT TO UPRR CALL CENTER THAT DAY. OIL LEAKED FROM LOCOMOTIVE IN THE YARD. NO IMPACTS TO WATER.

ACTION: ENVIRONMENTAL FIELD OPERATIONS (MARK ROSS) RESPONDED TO SPILL and CLEANED IT UP, LOCOMOTIVE WAS MOVED TO SHOP and OIL DRAINED.

RESPONSE COMMENTS:

COMMENTS: CONTACT FOR UPRR ENV. FIELD OPS. MARK ROSS 303-964-4457

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 56 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: PACIFIC ROAD **REV:**
ADDRESS: 800 SEMINOLE RD **ID1:** 2004-533
DENVER CO 80223 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: CDPHE

PRP INFORMATION

PRP NAME: PACIFIC ROAD
PRP CONTACT: MATT FREDERICK
PRP ADDRESS: 800 SEMINOLE ROAD
DENVER CO 80223-

SPILL INFORMATION

EVENT DATE: 8/18/2004
MATERIAL TYPE: OIL

MATERIAL1: OIL
QUANTITY1: 2000
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: UNKNOWN
SOURCE TYPE: OIL
MEDIUM: WATER AND LAND
WATERWAY: SEWER DRAIN AND THE PACIFIC RAILROAD LAND
CAUSE: UNKNOWN
CAUSE INFO: THE RAILROAD CONTACT LISTED ABOVE DID NOT HAVE CAUSE INFORMATION ON THE SPILL. THEY ARE INVESTIGATING WHETHER IT CAME FROM A RAILCAR, OR AN EXTERNAL SOURCE.

ACTION: CSI COMPANY HAS RESPONDED AND PERFORMED CLEAN-UP.

RESPONSE COMMENTS:

COMMENTS: CSI IS THE ONLY AGENCY WORKING ON THE CLEAN-UP.

ADDITIONAL COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 51 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: UNKNOWN SOURCE: NRC	REV: 12/31/05 ID1: NRC-762627 ID2: STATUS: RAILROAD NON-RELEASE PHONE:
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED: 6/18/2005 8:31:07 PM	DATE COMPLETE:
6/18/2005 8:34:05 PM	
CALL TAKER: REC7955	CALL TYPE: INC

RESPONSIBLE PARTY: UNKNOWN
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
 XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: THE CALLER IS REPORTING THE DISCOVERY OF A DEAD TRESPASSER ON RAIL PROPERTY. NO TRAINS WERE INVOLVED.

INCIDENT TYPE: RAILROAD NON-RELEASE	INCIDENT CAUSE: UNKNOWN
INCIDENT DATE: 6/18/2005 7:10:00 PM	INCIDENT DATE DESC:
DISCOVERED	

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

AIRCRAFT TYPE: AIRCRAFT ID: AIRCRAFT FUEL CAPACITY UNITS: AIRCRAFT FUEL ON BOARD UNITS: AIRCRAFT HANGER: ROAD MILE MARKER: TYPE OF FIXED OBJECT: GENERATING CAPACITY: NPDES: PIPELINE TYPE: PIPELINE ABOVE GROUND: ABOVE PIPELINE COVERED: U LOCATION SUBDIVISION: TYPE VEHICLE INVOLVED: DEVICE OPERATIONAL: Y DOT CROSSING NUMBER:	AIRCRAFT MODEL: AIRCRAFT FUEL CAPACITY: AIRCRAFT FUEL ON BOARD: AIRCRAFT SPOT NUMBER: AIRCRAFT RUNWAY NUM: BUILDING ID: POWER GEN FACILITY: U TYPE OF FUEL: NPDES COMPLIANCE: U DOT REGULATED: U EXPOSED UNDERWATER: N GRADE CROSSING: N RAILROAD MILEPOST: CROSSING DEVICE TYPE: BRAKE FAILURE: N
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- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 51 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD	REV: 12/31/05
ADDRESS: 800 SEMINOLE RD	ID1: NRC-762627
DENVER CO	ID2:
DENVER	STATUS: RAILROAD NON-RELEASE
CONTACT: UNKNOWN	PHONE:
SOURCE: NRC	

TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	U
TANK REGULATED:	U	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

OCSG NUMBER:	OCSF NUMBER:
STATE LEASE NUMBER:	PIER DOCK NUMBER:
BERTH SLIP NUMBER:	CONTIN RELEASE TYPE:
INITIAL CONT RELEASE NUM:	CONT RELEASE PERMIT:
ALLISION: N	TYPE OF STRUCTURE:
STRUCTURE NAME:	STRUCT OPERATIONAL: U
AIRBAG DEPLOYED:	DATE NORMAL SERVICE:
SERVICE DISRUPT TIME:	SERVICE DISRUPT UNITS:
TRANSIT BUS FLAG:	CR BEGIN DATE:
CR END DATE:	CR CHANGE DATE:
FIRE INVOLVED: N	FIRE EXTINGUISHED: U
ANY EVACUATIONS: N	NUMBER EVACUATED:
WHO EVACUATED:	RADIUS OF EVACUATION:
ANY INJURIES: N	NUMBER INJURED:
NUMBER HOSPITALIZED:	ANY FATALITIES: Y
NUMBER FATALITIES: 1	ANY DAMAGES: N
DAMAGE AMOUNT:	AIR CORRIDOR CLOSED: N
AIR CORRIDOR DESC:	AIR CLOSURE TIME:
WATERWAY CLOSED: N	WATERWAY DESC:
WATERWAY CLOSURE TIME:	ROAD CLOSED: N
ROAD DESC:	ROAD CLOSURE TIME:
CLOSURE DIRECTION:	MAJOR ARTERY: N
TRACK CLOSED: N	TRACK DESC:
TRACK CLOSURE TIME:	MEDIA INTEREST: NONE
MEDIUM DESC: RAIL REPORT (N/A)	ADDTL MEDIUM INFO:
BODY OF WATER:	TRIBUTARY OF:
NEAREST RIVER MILE MARK:	RELEASE SECURED: U
EST DUR OF RELEASE:	RELEASE RATE:
TRACK CLOSE DIR:	ST AGENCY ON SCENE:
ST AGENCY RPT NUM:	OTHER AGENCY NOTIFIED:
WEATHER CONDITIONS: UNKNOWN	AIR TEMPERATURE:
WIND SPEED:	WIND DIRECTION:
WATER SUPPLY CONTAM: U	SHEEN SIZE:
SHEEN COLOR:	DIR OF SHEEN TRAVEL:
SHEEN ODOR DESCRIPTION:	WAVE CONDITION:
CURRENT SPEED:	CURRENT DIRECTION:
WATER TEMPERATURE:	

DESC OF REMEDIAL ACTION: THE POLICE DEPT. HAS RESPONDED

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 51 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: UNION PACIFIC RAILROAD ADDRESS: 800 SEMINOLE RD DENVER CO DENVER CONTACT: UNKNOWN SOURCE: NRC</p>	<p>REV: 12/31/05 ID1: NRC-762627 ID2: STATUS: RAILROAD NON-RELEASE PHONE:</p>
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COMMUNITY IMPACT:	N	WIND SPEED UNITS:
EMPLOYEE INJURIES:		PASSENGER INJURIES:
OCCUPANT FATALITY:		CURRENT SPEED UNITS:
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:
FED AGENCY NOTIFIED:		NEAREST RIVER MILE MARK:
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:
OFFSHORE:	N	DURATION UNIT:
RELEASE RATE UNIT:		RELEASE RATE RATE:

ADDITIONAL INFO: NONE

MATERIAL INFORMATION

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

TRAIN NAME/NUMBER:	N/A	RAILROAD NAME:	UNION PACIFIC RAILROAD
TRAIN TYPE:	OTHER	TRACK SPEED:	
TRAIN SPEED:		TRAIN DIRECTION:	
NUMBER OF LOCOMOTIVES:		NUMBER OF CARS:	
NUMBER DERAILED:		NON COMPLIANCE WITH HAZMAT:	N

VESSEL INFORMATION

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 52 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

<p>NAME: ADDRESS: 800 SEMINOLE RD DENVER CO DENVER</p> <p>CONTACT: SOURCE: NRC</p>	<p>REV: 12/31/06 ID1: NRC-804990 ID2: STATUS: RAILROAD PHONE:</p>
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SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED: 7/21/2006 11:58:48 AM	7/21/2006 11:51:56 AM	DATE COMPLETE:
CALL TAKER:	CALL TYPE:	INC

RESPONSIBLE PARTY:
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: CALLER IS REPORTING A RELEASE OF DIESEL FUEL FROM A LOCOMOTIVE DUE TO AN OPEN VALVE ON THE LOCOMOTIVE.

INCIDENT TYPE:	RAILROAD	INCIDENT CAUSE:	UNKNOWN
INCIDENT DATE:	7/21/2006 10:30:00 AM	INCIDENT DATE DESC:	
DISCOVERED			

DISTANCE FROM CITY:	DISTANCE UNITS:
DIRECTION FROM CITY:	LOCATION SECTION:
LOCATION TOWNSHIP:	LOCATION RANGE:

<p>AIRCRAFT TYPE: AIRCRAFT ID: AIRCRAFT FUEL CAPACITY UNITS: AIRCRAFT FUEL ON BOARD UNITS: AIRCRAFT HANGER: ROAD MILE MARKER: TYPE OF FIXED OBJECT: GENERATING CAPACITY: NPDES: PIPELINE TYPE: PIPELINE ABOVE GROUND: PIPELINE COVERED: LOCATION SUBDIVISION: TYPE VEHICLE INVOLVED: DEVICE OPERATIONAL:</p>	<p>AIRCRAFT MODEL: AIRCRAFT FUEL CAPACITY: AIRCRAFT FUEL ON BOARD: AIRCRAFT SPOT NUMBER: AIRCRAFT RUNWAY NUM: BUILDING ID: POWER GEN FACILITY: UNKNOWN TYPE OF FUEL: NPDES COMPLIANCE: UNKNOWN DOT REGULATED: UNKNOWN EXPOSED UNDERWATER: NO GRADE CROSSING: NO RAILROAD MILEPOST: 2.25 CROSSING DEVICE TYPE:</p>
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DOT CROSSING NUMBER:	BRAKE FAILURE:	NO
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- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 52 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME:	REV: 12/31/06
ADDRESS: 800 SEMINOLE RD	ID1: NRC-804990
DENVER CO	ID2:
DENVER	STATUS: RAILROAD
CONTACT:	PHONE:
SOURCE: NRC	

TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	UNKNOWN
TANK REGULATED:	UNKNOWN	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			

DESCRIPTION OF TANK:

OCSG NUMBER:		OCSF NUMBER:	
STATE LEASE NUMBER:		PIER DOCK NUMBER:	
BERTH SLIP NUMBER:		CONTIN RELEASE TYPE:	
INITIAL CONT RELEASE NUM:		CONT RELEASE PERMIT:	
ALLISION:	NO	TYPE OF STRUCTURE:	
STRUCTURE NAME:		STRUCT OPERATIONAL:	UNKNOWN
AIRBAG DEPLOYED:		DATE NORMAL SERVICE:	
SERVICE DISRUPT TIME:		SERVICE DISRUPT UNITS:	
TRANSIT BUS FLAG:		CR BEGIN DATE:	
CR END DATE:		CR CHANGE DATE:	
FIRE INVOLVED:	NO	FIRE EXTINGUISHED:	UNKNOWN
ANY EVACUATIONS:	NO	NUMBER EVACUATED:	
WHO EVACUATED:		RADIUS OF EVACUATION:	
ANY INJURIES:	NO	NUMBER INJURED:	
NUMBER HOSPITALIZED:		ANY FATALITIES:	NO
NUMBER FATALITIES:		ANY DAMAGES:	NO
DAMAGE AMOUNT:		AIR CORRIDOR CLOSED:	NO
AIR CORRIDOR DESC:		AIR CLOSURE TIME:	
WATERWAY CLOSED:	NO	WATERWAY DESC:	
WATERWAY CLOSURE TIME:		ROAD CLOSED:	NO
ROAD DESC:		ROAD CLOSURE TIME:	
CLOSURE DIRECTION:		MAJOR ARTERY:	NO
TRACK CLOSED:	NO	TRACK DESC:	
TRACK CLOSURE TIME:		MEDIA INTEREST:	NONE
MEDIUM DESC:	BALLAST	ADDTL MEDIUM INFO:	/ RAILROAD BALLAST
BODY OF WATER:		TRIBUTARY OF:	
NEAREST RIVER MILE MARK:		RELEASE SECURED:	YES
EST DUR OF RELEASE:		RELEASE RATE:	
TRACK CLOSE DIR:		ST AGENCY ON SCENE:	
ST AGENCY RPT NUM:	2006-665	OTHER AGENCY NOTIFIED:	
WEATHER CONDITIONS:	PARTLY CLOUDY	AIR TEMPERATURE:	70
WIND SPEED:		WIND DIRECTION:	
WATER SUPPLY CONTAM:	UNKNOWN	SHEEN SIZE:	
SHEEN COLOR:		DIR OF SHEEN TRAVEL:	
SHEEN ODOR DESCRIPTION:		WAVE CONDITION:	
CURRENT SPEED:		CURRENT DIRECTION:	
WATER TEMPERATURE:			

DESC OF REMEDIAL ACTION: CONTRACTOR (CUSTOMS ENVIRONMENTAL SERVICES) WAS CALLED FOR CLEAN UP

EMPL FATALITY: **PASS FATALITY:**

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 52 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME:		REV:	12/31/06
ADDRESS:	800 SEMINOLE RD	ID1:	NRC-804990
	DENVER CO	ID2:	
	DENVER	STATUS:	RAILROAD
CONTACT:		PHONE:	
SOURCE:	NRC		

COMMUNITY IMPACT:	NO	WIND SPEED UNITS:	
EMPLOYEE INJURIES:		PASSENGER INJURIES:	
OCCUPANT FATALITY:		CURRENT SPEED UNITS:	
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:	
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:	DPHE, DES
FED AGENCY NOTIFIED:		NEAREST RIVER MILE MARK:	
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:	
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:	
OFFSHORE:	N	DURATION UNIT:	
RELEASE RATE UNIT:		RELEASE RATE RATE:	

ADDITIONAL INFO: CALLER STATED THE AMOUNT OF DIESEL IS GREATER THAN 100 GALLONS.

MATERIAL INFORMATION

CHRIS CODE:	ODS	CASE NUMBER:	000000-00-0
UN NUMBER:		REACHED WATER:	NO
NAME OF MATERIAL:	OIL: DIESEL		
AMOUNT OF MATERIAL:	100 GALLON(S)		
AMOUNT IN WATER:			

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

TRAIN NAME/NUMBER:	UP7029	RAILROAD NAME:	UNION PACIFIC RAILROAD
TRAIN TYPE:	LOCOMOTIVE	TRACK SPEED:	
TRAIN SPEED:		TRAIN DIRECTION:	
NUMBER OF LOCOMOTIVES:	1	NUMBER OF CARS:	
NUMBER DERAILED:		NON COMPLIANCE WITH HAZMAT:	N

VESSEL INFORMATION

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 66	DIST/DIR: 0.16 NW	ELEVATION: 5222	MAP ID: 40
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NAME: UPRR	REV: 10/08/10
ADDRESS: 800 SEMINOLE RD	ID1: 2010-0504
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

DETAILS NOT AVAILABLE

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 60 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD
ADDRESS: 800 SEMINOLE RD
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV:
ID1: 2006-665
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: JERRY HAMILTON
PRP ADDRESS: 1400 DOUGLAS ST
OMAHA NB 68179

SPILL INFORMATION

EVENT DATE: 7/21/2006
MATERIAL TYPE: OIL

MATERIAL1: DIESEL
QUANTITY1: 150 GALLONS
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: RAILWAY
SOURCE TYPE: RAILROAD/TRAIN
MEDIUM: LAND

WATERWAY:
CAUSE: ERROR OPERATOR
CAUSE INFO: A valve was left open on locomotive engine UP7029 causing 100 to 150 gallons of fuel to be released to the soil at a stationary location.

ACTION: They contracted with Cusyom Environmental to clean it up

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 58 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC	REV:
ADDRESS: 800 SEMINOLE RD	ID1: 2006-538
DENVER CO 80204	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

PRP INFORMATION

PRP NAME: UNION PACIFIC
PRP CONTACT:
PRP ADDRESS: 800 SEMINOLE RD
DENVER CO 80204

SPILL INFORMATION

EVENT DATE: 6/12/2006
MATERIAL TYPE: OIL

MATERIAL1: DIESEL FUEL
QUANTITY1:
WATER QUANTITY1:

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: UNKNOWN
SOURCE TYPE: Describe source
MEDIUM: GROUND WATER
WATERWAY:
CAUSE: TRANSPORTATION ACCIDENT
CAUSE INFO: Diesel oil spill - 10-12 ft x 8-10 ft, Custom Environmental for clean-up

ACTION:

RESPONSE COMMENTS:

COMMENTS:

ADDITIONAL COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 59 **DIST/DIR:** 0.16 NW **ELEVATION:** 5222 **MAP ID:** 40

NAME: UNION PACIFIC RAILROAD
ADDRESS: 800 SEMINOLE RD
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV:
ID1: 2005-450
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME: UNION PACIFIC RAILROAD
PRP CONTACT: DAVID ROSS
PRP ADDRESS: 1400 DOUGLAS
OMAHA NE 68179-

SPILL INFORMATION

EVENT DATE: 7/25/2005
MATERIAL TYPE: OIL

MATERIAL1: DIESEL
QUANTITY1: 1500 GALLONS
WATER QUANTITY1: 0

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: FIXED FACILITY
SOURCE TYPE: RAILROAD/TRAIN
MEDIUM: FIXED FACILITY
WATERWAY:
CAUSE: FAILURE EQUIPMENT
CAUSE INFO: DURING THE FILLING OF A LOCOMOTIVE, UNKNOWN CAUSES LEAD TO THE
RELEASE OF DIESEL.

ACTION: ALL THE RELEASED MATERIAL WAS CAPTURED AND CONTAINED WITHIN A SECONDARY CONTAINMENT AREA.

RESPONSE COMMENTS:

COMMENTS: NO WATERWAYS WERE IMPACTED.

ADDITIONAL COMMENTS:

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 53 **DIST/DIR:** 0.16 NE **ELEVATION:** 5240 **MAP ID:** 41

NAME:		REV:	12/31/02
ADDRESS:	658 KALAMGH DENVER CO DENVER	ID1:	NRC-616229
CONTACT:		ID2:	
SOURCE:	NRC	STATUS:	FIXED
		PHONE:	

SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:	7/10/2002 2:20:18 PM	DATE COMPLETE:	
7/10/2002 2:24:12 PM			
CALL TAKER:		CALL TYPE:	INC

RESPONSIBLE PARTY:
PHONE 1:
PHONE 2:
PHONE 3:

RESPONSIBLE COMPANY:
ORGANIZATION TYPE: UNKNOWN

ADDRESS:
XX

SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: THE MATERIAL RELEASED FROM A POLE MOUNTED TRANSFORMER DUE A LEAK.

INCIDENT TYPE:	FIXED	INCIDENT CAUSE:	EQUIPMENT FAILURE
INCIDENT DATE:	7/10/2002 12:15:00 PM	INCIDENT DATE DESC:	
DISCOVERED			

DISTANCE FROM CITY:		DISTANCE UNITS:	
DIRECTION FROM CITY:		LOCATION SECTION:	
LOCATION TOWNSHIP:		LOCATION RANGE:	

AIRCRAFT TYPE:	UNKNOWN	AIRCRAFT MODEL:	
AIRCRAFT ID:		AIRCRAFT FUEL CAPACITY:	
AIRCRAFT FUEL CAPACITY UNITS:		AIRCRAFT FUEL ON BOARD:	
AIRCRAFT FUEL ON BOARD UNITS:		AIRCRAFT SPOT NUMBER:	
AIRCRAFT HANGER:		AIRCRAFT RUNWAY NUM:	
ROAD MILE MARKER:		BUILDING ID:	
TYPE OF FIXED OBJECT:	TRANSFORMER	POWER GEN FACILITY:	NO
GENERATING CAPACITY:		TYPE OF FUEL:	
NPDES:		NPDES COMPLIANCE:	UNKNOWN
PIPELINE TYPE:		DOT REGULATED:	UNKNOWN
PIPELINE ABOVE GROUND:	ABOVE	EXPOSED UNDERWATER:	NO
PIPELINE COVERED:	UNKNOWN	GRADE CROSSING:	NO
LOCATION SUBDIVISION:		RAILROAD MILEPOST:	
TYPE VEHICLE INVOLVED:		CROSSING DEVICE TYPE:	
DEVICE OPERATIONAL:	YES		

DOT CROSSING NUMBER:		BRAKE FAILURE:	NO
TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	UNKNOWN

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 53 **DIST/DIR:** 0.16 NE **ELEVATION:** 5240 **MAP ID:** 41

NAME:	REV: 12/31/02
ADDRESS: 658 KALAMGH DENVER CO DENVER	ID1: NRC-616229
CONTACT:	ID2:
SOURCE: NRC	STATUS: FIXED
	PHONE:

TANK REGULATED: UNKNOWN	TANK REGULATED BY:
TANK ID:	CAPACITY OF TANK:
CAPACITY OF TANK UNITS:	ACTUAL AMOUNT:
ACTUAL AMOUNT UNITS:	PLATFORM RIG NAME:
PLATFORM LETTER:	LOCATION AREA ID:
LOCATION BLOCK ID:	

DESCRIPTION OF TANK:

OCSG NUMBER:	OCSP NUMBER:
STATE LEASE NUMBER:	PIER DOCK NUMBER:
BERTH SLIP NUMBER:	CONTIN RELEASE TYPE:
INITIAL CONT RELEASE NUM:	CONT RELEASE PERMIT:
ALLISION: NO	TYPE OF STRUCTURE:
STRUCTURE NAME:	STRUCT OPERATIONAL: UNKNOWN
AIRBAG DEPLOYED:	DATE NORMAL SERVICE:
SERVICE DISRUPT TIME:	SERVICE DISRUPT UNITS:
TRANSIT BUS FLAG:	CR BEGIN DATE:
CR END DATE:	CR CHANGE DATE:
FIRE INVOLVED: NO	FIRE EXTINGUISHED: UNKNOWN
ANY EVACUATIONS: NO	NUMBER EVACUATED:
WHO EVACUATED:	RADIUS OF EVACUATION:
ANY INJURIES: NO	NUMBER INJURED:
NUMBER HOSPITALIZED:	ANY FATALITIES: NO
NUMBER FATALITIES:	ANY DAMAGES: NO
DAMAGE AMOUNT:	AIR CORRIDOR CLOSED: NO
AIR CORRIDOR DESC:	AIR CLOSURE TIME:
WATERWAY CLOSED: NO	WATERWAY DESC:
WATERWAY CLOSURE TIME:	ROAD CLOSED: NO
ROAD DESC:	ROAD CLOSURE TIME:
CLOSURE DIRECTION:	MAJOR ARTERY: NO
TRACK CLOSED: NO	TRACK DESC:
TRACK CLOSURE TIME:	MEDIA INTEREST: NONE
MEDIUM DESC: WATER	ADDTL MEDIUM INFO: UNKNOWN STREAM
BODY OF WATER: UNKNOWN STREAM	TRIBUTARY OF:
NEAREST RIVER MILE MARK:	RELEASE SECURED: UNKNOWN
EST DUR OF RELEASE:	RELEASE RATE:
TRACK CLOSE DIR:	ST AGENCY ON SCENE:
ST AGENCY RPT NUM:	OTHER AGENCY NOTIFIED:
WEATHER CONDITIONS: CLEAR	AIR TEMPERATURE:
WIND SPEED:	WIND DIRECTION:
WATER SUPPLY CONTAM: UNKNOWN	SHEEN SIZE:
SHEEN COLOR:	DIR OF SHEEN TRAVEL:
SHEEN ODOR DESCRIPTION:	WAVE CONDITION:
CURRENT SPEED:	CURRENT DIRECTION:
WATER TEMPERATURE:	
DESC OF REMEDIAL ACTION: NONE	
EMPL FATALITY:	PASS FATALITY:
COMMUNITY IMPACT: NO	WIND SPEED UNITS:

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 53 **DIST/DIR:** 0.16 NE **ELEVATION:** 5240 **MAP ID:** 41

NAME:		REV:	12/31/02
ADDRESS: 658 KALAMGH		ID1:	NRC-616229
DENVER CO		ID2:	
DENVER		STATUS:	FIXED
CONTACT:		PHONE:	
SOURCE: NRC			

EMPLOYEE INJURIES:		PASSENGER INJURIES:	
OCCUPANT FATALITY:		CURRENT SPEED UNITS:	
ROAD CLOSURE UNITS:		TRACK CLOSURE UNITS:	
SHEEN SIZE UNITS:		STATE AGENCY NOTIFIED:	
FED AGENCY NOTIFIED:		NEAREST RIVER MILE MARK:	
SHEEN SIZE LENGTH:		SHEEN SIZE LENGTH UNITS:	
SHEEN SIZE WIDTH:		SHEEN SIZE WIDTH UNITS:	
OFFSHORE:	N	DURATION UNIT:	
RELEASE RATE UNIT:		RELEASE RATE RATE:	

ADDITIONAL INFO: THE CALLER HAD NO ADDITIONAL INFORMATION.

MATERIAL INFORMATION

CHRIS CODE:	OMN	CASE NUMBER:	000000-00-0
UN NUMBER:		REACHED WATER:	YES

NAME OF MATERIAL:	OIL, MISC: MINERAL (PCB UNKNOWN)
AMOUNT OF MATERIAL:	0 UNKNOWN AMOUNT
AMOUNT IN WATER:	0 UNKNOWN AMOUNT

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TRAIN INFORMATION

VESSEL INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SPILLS

SEARCH ID: 68 **DIST/DIR:** 0.17 NE **ELEVATION:** 5234 **MAP ID:** 42

NAME:
ADDRESS: WEST W. 8TH and MARIPOSA AVE
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE

REV:
ID1: 2005-359
ID2:
STATUS:
PHONE:

PRP INFORMATION

PRP NAME:
PRP CONTACT:
PRP ADDRESS:

CO

SPILL INFORMATION

EVENT DATE: 6/10/2005
MATERIAL TYPE: OIL

MATERIAL1: TRANSFORMER OIL
QUANTITY1: 60 GALLONS
WATER QUANTITY1: 40 GALLONS

MATERIAL2:
QUANTITY2:
WATER QUANTITY2:

MATERIAL3:
QUANTITY3:
WATER QUANTITY3:

SOURCE: HIGHWAY
SOURCE TYPE: TRUCK/TRAILER
MEDIUM: WATER AND LAND
WATERWAY: STORM SEWER
CAUSE: TRANSPORTATION ACCIDENT
CAUSE INFO: A VEHICLE HIT A POWRE POLE WHICH HAD THREE TRANSFORMERS MOUNTED ON IT. THE POLE COLLAPSED TO THE GROUND WHICH CAUSED THE TRANFORMER OIL TO RELEASE FROM ALL THREE TRANSFORMERS. RELEASED OIL IMPACTED A NEARBY STORM SEWER.

ACTION: RM CAT IS ON THE SCENE CLEANING UP ALL IMPACTED AREAS. THE STORM SEWER WHICH WAS IMPACTED OUTFALSS INTO A NEARBY PARKING LOT, SO NO SURFACE WATERS WERE IMPACTED. THE STORM SEWER ABOUT 60FT. LONG FROM ACCIDENT POINT TO OUTFALL.

RESPONSE COMMENTS:

COMMENTS: THE TRANSFORMER OIL WHICH WAS RELEASED POSSIBLY CONTAINED PCB S. ONE THREE TRANSFORMERS WERE DAMAGED IN THE ACCIDENT. ONE HAD A LABEL THAT READ LESS <2 PCB S AND THE OTHER TWO HAD LABELS THAT READ <50 PCB S. XCEL TOOK SAMPLES OF THE OIL AND ARE AWAITNIG T

ADDITIONAL COMMENTS:

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 76 **DIST/DIR:** 0.20 SW **ELEVATION:** 5210 **MAP ID:** 43

NAME: ASSOCIATED STATIONER INC PROPERTY **REV:** 04/01/11
ADDRESS: 501 RARITAN WAY **ID1:** 15421
DENVER CO 80204 **ID2:**
DENVER **STATUS:**
CONTACT: **PHONE:**
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 18540
OWNER NAME:
OWNER ADDRESS: 501 RARITAN WAY
DENVER CO 80204

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15421

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 32 **DIST/DIR:** 0.20 SW **ELEVATION:** 5210 **MAP ID:** 43

NAME: FUJI PHOTO FILM USA INC
ADDRESS: 501 RARITAN WAY
DENVER CO 80204
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COR000204263
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D011 - Silver

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 38 **DIST/DIR:** 0.20 SE **ELEVATION:** 5240 **MAP ID:** 44

NAME: W RAY CRABB
ADDRESS: 471 KALAMATH
DENVER CO 80201

REV: 1/11/11
ID1: COD983800392
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D035 - Methyl ethyl ketone
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain
F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 21 **DIST/DIR:** 0.21 NE **ELEVATION:** 5242 **MAP ID:** 45

NAME: B^R SCREEN GRAPHICS
ADDRESS: 1045 W 8TH AVE
DENVER CO 80204

REV: 1/11/11
ID1: COR000200618
ID2:
STATUS: VGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS:
GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain
D001 - Ignitable waste

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 28	DIST/DIR: 0.22 SE	ELEVATION: 5241	MAP ID: 46
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NAME: US AUTO BODY and PAINT
ADDRESS: 450 KALAMATH ST
DENVER CO 80204
DENVER

REV: 4/19/01
ID1: COD982649626
ID2:
STATUS: SGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE NAME:

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 37 **DIST/DIR:** 0.22 SE **ELEVATION:** 5241 **MAP ID:** 46

NAME: US AUTO BODY and PAINT
ADDRESS: 450 KALAMATH ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COD982649626
ID2:
STATUS: NLR
PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain

F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 116 **DIST/DIR:** 0.22 NE **ELEVATION:** 5242 **MAP ID:** 47

NAME: ADCO GENERAL CORPORATION PROPERTY	REV: 04/04/11
ADDRESS: 1021 WEST 8TH AVE	ID1: 7236
DENVER CO 80218	ID2:
DENVER	STATUS: CLOSED
CONTACT:	PHONE:
SOURCE: COSTIS	

LUST INFORMATION

STATUS: Closed
LOG DATE: 2/3/1999

LINK: http://costis.cdle.state.co.us/event.asp?h_id=7236

UST

SEARCH ID: 75 **DIST/DIR:** 0.22 NE **ELEVATION:** 5242 **MAP ID:** 47

NAME: ADCO GENERAL CORPORATION PROPERTY	REV: 04/01/11
ADDRESS: 1021 WEST 8TH AVE	ID1: 14737
DENVER CO 80218	ID2:
CONTACT:	STATUS:
SOURCE: COSTIS	PHONE:

OWNER INFORMATION

OWNER ID NUMBER: 17702
OWNER NAME:
OWNER ADDRESS: UNKNOWN
ARVADA CO 80002

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Z Not Listed
TANK CAPACITY: 300
TANK ID: 32532
TANK TAG: 14737-1

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=14737

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 23 **DIST/DIR:** 0.23 SE **ELEVATION:** 5240 **MAP ID:** 48

NAME: RICKENBAUGH
ADDRESS: 444 KALAMATH
DENVER CO 80203

REV: 1/11/11
ID1: COR000001727
ID2:
STATUS: SGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000
KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

811121 - AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE
44111 - NEW CAR DEALERS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D008 - Lead
D018 - Benzene
D035 - Methyl ethyl ketone
D039 - Tetrachloroethylene
D040 - Trichloroethylene
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain
F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRANLR

SEARCH ID: 29 **DIST/DIR:** 0.23 SE **ELEVATION:** 5243 **MAP ID:** 49

NAME: CINTAS CORPORATION
ADDRESS: 545 SANTA FE DR
DENVER CO 80204

REV: 1/11/11
ID1: COD032037483
ID2:
STATUS: NLR
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoro

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 129 **DIST/DIR:** 0.23 SE **ELEVATION:** 5244 **MAP ID:** 50

NAME: CONOCO SS
ADDRESS: 571 SANTA FE DR
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 5808
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 3/5/1997

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5808

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 73 **DIST/DIR:** 0.23 SE **ELEVATION:** 5244 **MAP ID:** 50

NAME: 6TH and SANTA FE CONOCO **REV:** 04/01/11
ADDRESS: 571 SANTA FE DR **ID1:** 7521
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 854
OWNER NAME: LANG; CURTIS
OWNER ADDRESS: 571 SANTA FE DR
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 19803
TANK TAG: 7521-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 19804
TANK TAG: 7521-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 19805
TANK TAG: 7521-3

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 6000
TANK ID: 19806
TANK TAG: 7521-4

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 560
TANK ID: 19807
TANK TAG: 7521-5

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7521

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 78 **DIST/DIR:** 0.23 S- **ELEVATION:** 5226 **MAP ID:** 51

NAME: BOYD DISTRIBUTING CO **REV:** 04/01/11
ADDRESS: 340 NAVAJO ST **ID1:** 10237
DENVER CO 80223 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 18
OWNER NAME: BOYD DISTRIBUTING CO;
OWNER ADDRESS: 1400 W 3RD AVE
DENVER CO 80223

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 560
TANK ID: 27628
TANK TAG: 10237-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 560
TANK ID: 27629
TANK TAG: 10237-2

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 2000
TANK ID: 27630
TANK TAG: 10237-3

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 1000
TANK ID: 27631
TANK TAG: 10237-4

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10237

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 146	DIST/DIR: 0.23 -E	ELEVATION: 5244	MAP ID: 52
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NAME: SIXTH and SANTA FE CAR WASH
ADDRESS: 603 SANTA FE DR
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 6587
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 6/2/1998

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6587

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 105 **DIST/DIR:** 0.23 -E **ELEVATION:** 5244 **MAP ID:** 52

NAME: SIXTH and SANTA FE CAR WASH
ADDRESS: 603 SANTA FE DR
DENVER CO 80204

REV: 04/01/11
ID1: 5778
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 3977
OWNER NAME: SIXTH and SANTA FE CAR WASH;
OWNER ADDRESS: 603 SANTA FE DR
DENVER CO 80204

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 15786
TANK TAG: 5778-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 15787
TANK TAG: 5778-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 8000
TANK ID: 15788
TANK TAG: 5778-3

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5778

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 121	DIST/DIR: 0.23 S-	ELEVATION: 5225	MAP ID: 53
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NAME: BOYD DISTRIBUTING	REV: 04/04/11
ADDRESS: 340 NAVAJO ST	ID1: 6994
DENVER CO 80202	ID2:
DENVER	STATUS: CLOSED
CONTACT:	PHONE:
SOURCE: COSTIS	

LUST INFORMATION

STATUS: Closed
LOG DATE: 10/18/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=6994

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRAGN

SEARCH ID: 25 **DIST/DIR:** 0.24 SE **ELEVATION:** 5244 **MAP ID:** 54

NAME: SHERWIN-WILLIAMS
ADDRESS: 543 SANTA FE DR
DENVER CO 80204

REV: 1/11/11
ID1: COR000014753
ID2:
STATUS: SGN
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000
KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D018 - Benzene
D007 - Chromium
D001 - Ignitable waste
D035 - Methyl ethyl ketone
D039 - Tetrachloroethylene
D040 - Trichloroethylene
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain
F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before us

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 48 **DIST/DIR:** 0.24 SE **ELEVATION:** 5244 **MAP ID:** 55

NAME: PUBLIC SERVICE CO
ADDRESS: 545 NORTH SANTA FE ST
DENVER CO 80204

REV: 11/22/96
ID1: 516056
ID2:
STATUS: PIPELINE RELATED
PHONE:

CONTACT:
SOURCE: EPA

SPILL INFORMATION

DATE OF SPILL: 11/22/96 **TIME OF SPILL:** 1558

PRODUCT RELEASED (1): NATURAL GAS
QUANTITY (1): 0
UNITS (1): UNK

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO **GROUNDWATER:** NO
LAND: NO **FIXED FACILITY:** NO
WATER: NO **OTHER:** YES
WATERBODY AFFECTED BY RELEASE:

CAUSE OF RELEASE

DUMPING: NO **EQUIPMENT FAILURE:** NO
NATURAL PHENOMENON: NO **OPERATOR ERROR:** NO
OTHER CAUSE: NO **TRANSP. ACCIDENT:** NO
UNKNOWN: NO

ACTIONS TAKEN: INVESTIGATORS ARE ON-SCENE
RELEASE DETECTION: BUILDING / EXPLODED (MAY HAVE BEEN A NATURAL GAS PIPELINE INCIDENT)
MISC. NOTES: THERE MAY HAVE BEEN PEOPLE INJURED IN THE INCIDENT. CANCELLED.

DISCHARGER INFORMATION

DISCHARGER ID: 516056 **DUN and BRADSTREET :**
TYPE OF DISCHARGER: PRIVATE ENTERPRISE
NAME OF DISCHARGER: PUBLIC SERVICE CO
ADDRESS: 1225 17TH STREET
DENVER CO

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

ERNS

SEARCH ID: 45 **DIST/DIR:** 0.24 SE **ELEVATION:** **MAP ID:** 55

NAME: INCIDENT 368399	REV: 12/30/08
ADDRESS: 545 NORTH SANTA FE ST	ID1: 368399-CO
DENVER CO	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: NRC	

INCIDENT DESCRIPTION: 11/22/96 - BUILDING / EXPLODED (MAY HAVE BEEN A NATURAL GAS PIPELINE INCIDENT)
MATERIAL:
AMOUNT:
LINK: http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=368399

SWL

SEARCH ID: 69 **DIST/DIR:** 0.24 N- **ELEVATION:** 5232 **MAP ID:** 56

NAME: STAFAB	REV: 12/01/08
ADDRESS: 860 NAVAJO	ID1: 016-REC-001
DENVER CO 80204	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

STATUS : Per CDPHE:

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 74 **DIST/DIR:** 0.24 -E **ELEVATION:** 5244 **MAP ID:** 57

NAME: A-B PETROLEUM 22 **REV:** 04/01/11
ADDRESS: 620 SANTA FE DR **ID1:** 8553
DENVER CO 80204 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 50
OWNER NAME:
OWNER ADDRESS: 1245 W ALAMEDA AVE
DENVER CO 80223

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 22350
TANK TAG: 8553-1

TANK TYPE: UST
TANK CONTENTS: 1 - Unleaded Regular (RUL)
TANK CAPACITY: 10000
TANK ID: 22351
TANK TAG: 8553-2

TANK TYPE: UST
TANK CONTENTS: 2 - Unleaded Mid-Grade (MUL)
TANK CAPACITY: 10000
TANK ID: 22352
TANK TAG: 8553-3

TANK TYPE: UST
TANK CONTENTS: 3 - Unleaded Premium (PUL)
TANK CAPACITY: 10000
TANK ID: 22353
TANK TAG: 8553-4

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 10000
TANK ID: 22354
TANK TAG: 8553-5

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8553

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 81 **DIST/DIR:** 0.24 NE **ELEVATION:** 5240 **MAP ID:** 58

NAME: CARLOS 66 **REV:** 04/01/11
ADDRESS: 800 KALAMATH ST **ID1:** 5335
DENVER CO 80203 **ID2:**
CONTACT: **STATUS:**
SOURCE: COSTIS **PHONE:**

OWNER INFORMATION

OWNER ID NUMBER: 3208
OWNER NAME: CARLOS and SELVA LLANES;
OWNER ADDRESS: 800 KALAMATH ST
DENVER CO 80203

TANK INFORMATION

TANK TYPE: UST
TANK CONTENTS: 4 - Diesel
TANK CAPACITY: 6000
TANK ID: 14697
TANK TAG: 5335-1

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 14698
TANK TAG: 5335-2

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 4000
TANK ID: 14699
TANK TAG: 5335-3

TANK TYPE: UST
TANK CONTENTS: Gasoline
TANK CAPACITY: 2000
TANK ID: 14700
TANK TAG: 5335-4

TANK TYPE: UST
TANK CONTENTS: 6 - Used Oil (Waste Oil)
TANK CAPACITY: 560
TANK ID: 14701
TANK TAG: 5335-5

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5335

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

UST

SEARCH ID: 80 **DIST/DIR:** 0.24 NE **ELEVATION:** 5240 **MAP ID:** 58

NAME: CARLOS 66
ADDRESS: 800 KALAMATH ST
DENVER CO 80203

REV: 04/01/11
ID1: 12992
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: COSTIS

OWNER INFORMATION

OWNER ID NUMBER: 17473
OWNER NAME: LLANES; CARLOS
OWNER ADDRESS: 800 KALAMATH ST
DENVER CO 80203

TANK INFORMATION

LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12992

LUST

SEARCH ID: 125 **DIST/DIR:** 0.24 NE **ELEVATION:** 5240 **MAP ID:** 58

NAME: CARLOS 66
ADDRESS: 800 KALAMATH ST
DENVER CO 80203
DENVER

REV: 04/04/11
ID1: 3013
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 1/12/1994

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3013

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SWL

SEARCH ID: 72 **DIST/DIR:** 0.25 S- **ELEVATION:** **MAP ID:** 59

NAME: KNOWN LANDFILL	REV: 12/01/08
ADDRESS: SOUTH BOUNDARIES APPROXIMATE: N OF W. 4TH AVE. DENVER CO DENVER	ID1: 132 ID2: 00070-0000676
CONTACT:	STATUS: HISTORIC
SOURCE: CDPHE/COUNTY	PHONE:

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 122 **DIST/DIR:** 0.26 S- **ELEVATION:** 5224 **MAP ID:** 60

NAME: BOYD DISTRIBUTING CO
ADDRESS: 350 OSAGE ST
DENVER CO 80223

REV: 04/04/11
ID1: 140
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 12/30/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=140

LUST

SEARCH ID: 149 **DIST/DIR:** 0.26 N- **ELEVATION:** 5231 **MAP ID:** 61

NAME: STOUT STREET FOUNDATION
ADDRESS: 875 NAVAJO ST
DENVER CO 80204

REV: 04/04/11
ID1: 3161
ID2:
STATUS: STATE LEAD
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: State Lead
LOG DATE: 4/3/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3161

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 124 **DIST/DIR:** 0.27 SW **ELEVATION:** 5217 **MAP ID:** 62

NAME: BP INVESTMENT
ADDRESS: 330 QUIVAS ST
DENVER CO 80223

REV: 04/04/11
ID1: 3071
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 2/12/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3071

LUST

SEARCH ID: 132 **DIST/DIR:** 0.28 NE **ELEVATION:** 5242 **MAP ID:** 63

NAME: DICK LESNICK
ADDRESS: 866 LIPAN
DENVER CO 80204

REV: 04/04/11
ID1: 1616
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 12/9/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1616

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 126 **DIST/DIR:** 0.30 NE **ELEVATION:** 5246 **MAP ID:** 64

NAME: CARTER LUBRICATION AKA GREASE MONKEY **REV:** 04/04/11
ADDRESS: 901 WEST 8TH AVE **ID1:** 7431
DENVER CO 80204 **ID2:**
DENVER **STATUS:** CLOSED
CONTACT: **PHONE:**
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/29/1999

LINK: http://costis.cdle.state.co.us/event.asp?h_id=7431

LUST

SEARCH ID: 140 **DIST/DIR:** 0.31 SW **ELEVATION:** 5221 **MAP ID:** 65

NAME: MURRAY DISTRIBUTING CO INC **REV:** 04/04/11
ADDRESS: 1505 WEST 3RD AVE **ID1:** 540
DENVER CO 80223 **ID2:**
DENVER **STATUS:** CLOSED
CONTACT: **PHONE:**
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 12/14/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=540

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 144 **DIST/DIR:** 0.31 SE **ELEVATION:** 5235 **MAP ID:** 66

NAME: RTD	REV: 04/04/11
ADDRESS: 301 KALAMATH ST DENVER CO 80204 DENVER	ID1: 5491
CONTACT:	ID2:
SOURCE: COSTIS	STATUS: CLOSED
	PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/18/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5491

LUST

SEARCH ID: 133 **DIST/DIR:** 0.32 NW **ELEVATION:** 5207 **MAP ID:** 67

NAME: ELMS INVESTMENT PROPERTY	REV: 04/04/11
ADDRESS: 730 UMATILLA ST DENVER CO 80204	ID1: 5434
CONTACT:	ID2:
SOURCE: COSTIS	STATUS: CLOSED
	PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/31/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5434

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 151 **DIST/DIR:** 0.32 SE **ELEVATION:** 5230 **MAP ID:** 68

NAME: WASTE WATER MGMT
ADDRESS: 3RD AVE and S PLATTE RIVER DR
DENVER CO 80223

REV: 04/04/11
ID1: 4990
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/22/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=4990

LUST

SEARCH ID: 113 **DIST/DIR:** 0.33 NW **ELEVATION:** 5206 **MAP ID:** 69

NAME: 740 INVESTORS
ADDRESS: 740 UMATILLA ST
DENVER CO 80204

REV: 04/04/11
ID1: 2871
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 3/16/1993

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2871

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 141 **DIST/DIR:** 0.34 NW **ELEVATION:** 5204 **MAP ID:** 70

NAME: NEWSTROM-DAVIS CONSTRUCTION CO
ADDRESS: 2000 WEST 8TH AVE
DENVER CO 80204

REV: 04/04/11
ID1: 5137
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 9/8/1992

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5137

LUST

SEARCH ID: 150 **DIST/DIR:** 0.34 NE **ELEVATION:** 5249 **MAP ID:** 71

NAME: TS GAS
ADDRESS: 801 WEST 8TH AVE
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 5640
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 11/29/1995

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5640

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 13 **DIST/DIR:** 0.35 SE **ELEVATION:** 5243 **MAP ID:** 72

NAME: ALERT POLISHING AND PLATING
ADDRESS: 345 SANTA FE DR
DENVER CO 80223
DENVER
CONTACT:
SOURCE: EPA

REV: 1/11/11
ID1: COR000016204
ID2:
STATUS: CA
PHONE:

DETAILS NOT AVAILABLE

SWL

SEARCH ID: 70 **DIST/DIR:** 0.35 SW **ELEVATION:** **MAP ID:** 73

NAME: KNOWN LANDFILL
ADDRESS: WEST BOUNDARIES APPROXIMATE: N. W. 3RD AVE. E: PLATTE
DENVER CO
DENVER
CONTACT:
SOURCE: CDPHE/COUNTY

REV: 12/01/08
ID1: 135
ID2: 00070-0000679
STATUS: HISTORIC
PHONE:

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

Fill- DOMESTIC REFUSE: NO
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: YES
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 110	DIST/DIR: 0.35 SE	ELEVATION: 5238	MAP ID: 74
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NAME: 3RD AND KALAMATH ST PROPERTY
ADDRESS: 300- 304 KALAMATH ST
DENVER CO 80222
DENVER

REV: 04/04/11
ID1: 8922
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/6/2002 10:24:28 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8922

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRATSD

SEARCH ID: 12 **DIST/DIR:** 0.36 NW **ELEVATION:** 5204 **MAP ID:** 75

NAME: LINCOLN PLATING COMPANY	REV: 6/8/02
ADDRESS: 777 UMATILLA DENVER CO 80204	ID1: COD007073901
	ID2:
CONTACT: DOUG BALL	STATUS: TSD
SOURCE: EPA	PHONE: 4024753671

SITE INFORMATION

CONTACT INFORMATION: DOUG BALL
ENV COMPL MGR
777 UMATILLA
DENVER CO 80204

PHONE: 4024753671

UNIVERSE NAME:

DF: LAND DISPOSAL FACILITY
INCINERATOR
TSDS SUBJECT TO CORRECTIVE ACT
SUBJECT TO CEI
ST: STORAGE AND TREATMENT
SUBJECT TO CORRECTIVE ACTION

SIC INFORMATION:

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 29-JUN-87
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001	RESPONSIBLE: S - STATE	
DETERMINED: 13-MAR-87	DETERMINED BY: S - STATE	
CITATION:	RESOLVED: 06/29/1987	
TYPE: GER - GENERATOR ALL REQUIREMENTS		
VIOLATION NUMBER: 0002	RESPONSIBLE: S - STATE	
DETERMINED: 25-JUL-00	DETERMINED BY: S - STATE	
CITATION: 262.34,265.195,265.174	RESOLVED: 10/02/2000	
TYPE: GGR - GENERATOR GENERAL REQUIREMENTS		
VIOLATION NUMBER: 0003	RESPONSIBLE: S - STATE	
DETERMINED: 25-JUL-00	DETERMINED BY: S - STATE	
CITATION: 262.20	RESOLVED: 10/02/2000	
TYPE: GMR - GENERATOR MANIFEST REQUIREMENTS		

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 17 **DIST/DIR:** 0.36 NW **ELEVATION:** 5204 **MAP ID:** 75

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA
DENVER CO 80204

REV: 1/11/11
ID1: COD007073901
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 6/29/1987
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER:	0002	RESPONSIBLE:	S - STATE
DETERMINED:	7/25/2000	DETERMINED BY:	S - STATE
CITATION:	262.34,265.195,265.174	RESOLVED:	10/2/2000
TYPE:	GENERATOR-GENERAL REQUIREMENTS		

VIOLATION NUMBER:	0003	RESPONSIBLE:	S - STATE
DETERMINED:	7/25/2000	DETERMINED BY:	S - STATE
CITATION:	262.20	RESOLVED:	10/2/2000
TYPE:	GENERATOR-MANIFEST REQUIREMENTS		

CORRECTIVE ACTION INFORMATION

CA EVENT: 19980204 CA814AS
CA EVENT: 20070309 CA8310M

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 17 **DIST/DIR:** 0.36 NW **ELEVATION:** 5204 **MAP ID:** 75

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA
DENVER CO 80204

REV: 1/11/11
ID1: COD007073901
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 20020314 CA100 - RFI IMPOSITION

CA EVENT: 20070315 CA834OM

CA EVENT: 20070315 CA999RM - CA PROCESS IS TERMINATED-REMEDIAL ACTIVITIES COMPLETE

CA EVENT: 20020404 CA260 - CMS Workplan Received

CA EVENT: 20020415 CA300 - CMS WORKPLAN APPROVED

CA EVENT: 20020415 CA400 - DATE FOR REMEDY SELECTION (CM IMPOSED)

CA EVENT: 20020415 CA450 - CORRECTIVE MEASURES DESIGN APPROVED

CA EVENT: 19980422 CA190 - RFI Report Received

CA EVENT: 19970515 CA075ME - CA PRIORITIZATION-MEDIUM CA PRIORITY

CA EVENT: 19970515 CA006AC - Area of Concern

CA EVENT: 19970515 CA060 - NOTICE OF CONTAMINATION

CA EVENT: 19970515 CA070YE - DETERMINATION OF NEED FOR A RFI-RFI IS NECESSARY

CA EVENT: 19970515 CA077M

CA EVENT: 20060526 CA831OM

CA EVENT: 19970528 CA110 - RFI Workplan Received

CA EVENT: 19970530 CA120 - RFI Workplan Modification Requested by Agency

CA EVENT: 19980608 CA155 - RFI Supplemental Information Requested by Agency

CA EVENT: 20060612 CA834OM

CA EVENT: 19980720 CA260 - CMS Workplan Received

CA EVENT: 19980731 CA270 - CMS Workplan Modification Requested by Agency

CA EVENT: 19990826 CA816

CA EVENT: 20000919 CA160 - RFI Supplemental Information Received

CA EVENT: 19980929 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 20000929 CA155 - RFI Supplemental Information Requested by Agency

CA EVENT: 19981001 CA600 - Stabilization Measures Implemented

CA EVENT: 19971028 CA075LO - CA PRIORITIZATION-LOW CA PRIORITY

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 17 **DIST/DIR:** 0.36 NW **ELEVATION:** 5204 **MAP ID:** 75

NAME: LINCOLN PLATING COMPANY
ADDRESS: 777 UMATILLA
DENVER CO 80204

REV: 1/11/11
ID1: COD007073901
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19971028 CA750NO - RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

CA EVENT: 19971028 CA725NO - HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

CA EVENT: 19971028 CA100 - RFI IMPOSITION

CA EVENT: 19971028 CA225YE - STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION

CA EVENT: 19971212 CA811AS

CA EVENT: 19981215 CA650 - STABILIZATION CONSTRUCTION COMPLETED

CA EVENT: 19971226 CA814AS

HAZARDOUS WASTE INFORMATION:

F019 - Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.

- D001 - Ignitable waste
- D002 - Corrosive waste
- D007 - Chromium
- D008 - Lead

F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends contain

F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use

F006 - Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NFRAP

SEARCH ID: 11 **DIST/DIR:** 0.38 NE **ELEVATION:** 5243 **MAP ID:** 76

<p>NAME: INDUSTRIAL HARD CHROME PLATING CO. ADDRESS: 919 NORTH SANTA FE DR DENVER CO 80204</p> <p>CONTACT: SOURCE: EPA</p>	<p>REV: 1/26/11 ID1: CO0001055235 ID2: 0801499 STATUS: NFRAP-N PHONE:</p>
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DESCRIPTION:
THIS IS AN ABANDONED CHROME PLATING SHOP. ON FEB 17, 1995, THE SITE INVESTIGATION WAS INITIATED. INITIAL SAMPLINGS HAVE SHOWN THE CONTAMINATION OF SOIL FROM CHROMIUM AND NICKEL.

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
PRELIM CLOSE-OUT REP PREPARED	EPA Fund-Financed		6/30/1995
ISSUE REQ LTTRS (104e)	Federal Enforcement		3/30/1995
Notice Letters Issued	Federal Enforcement		8/11/1997
Public Notice Published	EPA Fund-Financed		5/5/1995
ARCHIVE SITE	EPA In-House		3/14/2006
ADMINISTRATIVE RECORDS ADMIN RECORD COMPILED FOR A REMEDIAL EVENT	EPA Fund-Financed	19-95-3/2/ Primary	4/28/1995
COMMUNITY INVOLVEMENT	EPA Fund-Financed	19-98-9/9/	2/18/1999
CONSENT AGREEMENT (ADMINISTRATIVE)	Federal Enforcement		9/10/1998
DISCOVERY	State, Fund Financed		12/19/1995
LIEN ON PRP PROPERTY	Federal Enforcement	/1-97-10/7	11/15/1997
NON-NPL PRP SEARCH SEARCH COMPLETE, NO VIABLE PRPS	Federal Enforcement Primary	/1-95-3/30	2/7/1996
PRELIMINARY ASSESSMENT NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	EPA Fund-Financed	Primary	12/19/1995
REMOVAL CLEANED UP	EPA Fund-Financed Primary	19-95-3/2/	6/30/1995
REMOVAL CLEANED UP	EPA Fund-Financed Primary	/1-97-7/25	10/15/1997

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 134 **DIST/DIR:** 0.38 NE **ELEVATION:** 5244 **MAP ID:** 77

NAME: H and M INVESTMENTS **REV:** 04/04/11
ADDRESS: 900 SANTA FE **ID1:** 8549
DENVER CO 80202 **ID2:**
DENVER **STATUS:** CLOSED
CONTACT: **PHONE:**
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/25/2001

LINK: http://costis.cdle.state.co.us/event.asp?h_id=8549

LUST

SEARCH ID: 112 **DIST/DIR:** 0.39 SE **ELEVATION:** 5241 **MAP ID:** 78

NAME: 7-ELEVEN 27620 **REV:** 04/04/11
ADDRESS: 303 NORTH SANTA FE DR **ID1:** 10926
DENVER CO 80223 **ID2:**
DENVER **STATUS:** CLOSED
CONTACT: **PHONE:**
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 9/4/2009 7:48:16 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10926

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 138 **DIST/DIR:** 0.39 SE **ELEVATION:** 5231 **MAP ID:** 79

NAME: LIPAN GARAGE
ADDRESS: 243 LIPAN ST
DENVER CO 80223

REV: 04/04/11
ID1: 1214
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 3/1/1989

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1214

LUST

SEARCH ID: 152 **DIST/DIR:** 0.40 SW **ELEVATION:** 5209 **MAP ID:** 80

NAME: WASTEWATER MANAGEMENT FACILITY
ADDRESS: 2000 WEST 3RD AVE
DENVER CO 80223
DENVER

REV: 04/04/11
ID1: 3635
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/26/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3635

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SWL

SEARCH ID: 71	DIST/DIR: 0.41 SW	ELEVATION:	MAP ID: 81
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NAME: KNOWN LANDFILL	REV: 12/01/08
ADDRESS: AT 4TH and VALLEJO ST	ID1: 131
DENVER CO	ID2: 00070-0000675
DENVER	STATUS: HISTORIC
CONTACT:	PHONE:
SOURCE: CDPHE/COUNTY	

COLORADO HISTORIC LANDFILLS

STATUS : Denver CO Old Fill Sites

TEMPORARILY CLOSED IN 1960
CONFIDENCE IN THIS INFO: LOW

Fill- DOMESTIC REFUSE: YES
CONSTRUCTION DEBRIS: NO
LIQUIDS: NO
HAZARDOUS WASTE: NO
INDUSTRIAL WASTE: NO
UNKNOWN: NO
CONFIDENCE IN THIS INFO: LOW

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

VCP

SEARCH ID: 154 **DIST/DIR:** 0.41 N- **ELEVATION:** 5229 **MAP ID:** 82

NAME: 10TH AND OSAGE PROPERTIES
ADDRESS: 944 OSAGE ST
DENVER CO 80204
DENVER

REV: 03/01/11
ID1: 080509-2
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE: CDPHE

COLORADO VOLUNTARY CLEANUP AND REDEVELOPMENT ACT:

APPLICATION TYPE:
APPLICATION NUMBER:

APPLICATION TYPE: NAD
FILE NUMBER: 080509-2

PARENT PROGRAM:
PARENT ID:

PARENT TYPE:
PROJECT MANAGER:

DATE RECEIVED:
EXTENSION:

LENGTH OF EXTENSION-DAYS:
DATE DUE:

DECISION:
DATE OF DECISION:

REMEDIAION START DATE:
REMEDIAION END DATE:

REVIEW COST:
TAX CREDIT:

RESIDENCES CREATED:
JOBS CREATED:

CLEANUP ACRES:
OTHER ISSUES:

MEDIA AFFECTED1:
MEDIA AFFECTED2:

MEDIA AFFECTED3:
LANDUSE RESTRICTION:

RESTRICTION ID:
COVENANT:

LINK: <http://emaps.dphe.state.co.us/hmtrackreporter/VCRASingle.aspx?Acnm=VCRAandSysID=>

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 128	DIST/DIR: 0.41 N-	ELEVATION: 5229	MAP ID: 82
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NAME: CITY AND COUNTY OF DENVER PROPERTY
ADDRESS: 1001 OSAGE ST
DENVER CO 80204
DENVER
CONTACT:
SOURCE: COSTIS

REV: 04/04/11
ID1: 10743
ID2:
STATUS: CLOSED
PHONE:

LUST INFORMATION

STATUS: Closed
LOG DATE: 11/10/2008 11:33:52 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=10743

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

VCP

SEARCH ID: 155	DIST/DIR: 0.41 N-	ELEVATION: 5229	MAP ID: 82
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NAME: 10TH AND OSAGE PROPERTIES II	REV: 03/01/11
ADDRESS: 1001 OSAGE ST	ID1: 081110-1
DENVER CO 80204	ID2:
DENVER	STATUS:
CONTACT:	PHONE:
SOURCE: CDPHE	

COLORADO VOLUNTARY CLEANUP AND REDEVELOPMENT ACT:

APPLICATION TYPE:
APPLICATION NUMBER:
APPLICATION TYPE: NAD
FILE NUMBER: 081110-1
PARENT PROGRAM:
PARENT ID:
PARENT TYPE:
PROJECT MANAGER:
DATE RECEIVED:
EXTENSION:
LENGTH OF EXTENSION-DAYS:
DATE DUE:
DECISION:
DATE OF DECISION:

REMEDICATION START DATE:
REMEDICATION END DATE:
REVIEW COST:
TAX CREDIT:
RESIDENCES CREATED:
JOBS CREATED:
CLEANUP ACRES:
OTHER ISSUES:
MEDIA AFFECTED1:
MEDIA AFFECTED2:
MEDIA AFFECTED3:
LANDUSE RESTRICTION:
RESTRICTION ID:
COVENANT:

LINK: <http://emaps.dphe.state.co.us/hmtrackreporter/VCRASingle.aspx?Acnm=VCRAandSysID=>

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 123 **DIST/DIR:** 0.43 NW **ELEVATION:** 5203 **MAP ID:** 83

NAME: BOYS and GIRLS CLUB OF DENVER
ADDRESS: 901 TEJON ST
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 1515
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 12/4/1996

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1515

LUST

SEARCH ID: 135 **DIST/DIR:** 0.43 NW **ELEVATION:** 5203 **MAP ID:** 84

NAME: HEB S SERVICE
ADDRESS: 2214 WEST 8TH AVE
DENVER CO 80204

REV: 04/04/11
ID1: 2403
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 1/2/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=2403

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 1 **DIST/DIR:** 0.44 NW **ELEVATION:** **MAP ID:** 85

NAME: DENVER RADIUM SITE
ADDRESS: VARIOUS PLACES IN DENVER
DENVER CO 80204

REV: 1/14/11
ID1: COD980716955
ID2: 0800247
STATUS: FINAL
PHONE: 3033126707

CONTACT: JACK WHYTE
SOURCE: EPA

SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS
SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS
THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
PARTIALLY DELETED DATE: 11/08/2010
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	4/15/2008	9/30/2008
risk/health assessment	EPA Fund-Financed	4/12/2005	10/13/2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 1 **DIST/DIR:** 0.44 NW **ELEVATION:** **MAP ID:** 85

<p>NAME: DENVER RADIUM SITE ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204</p> <p>CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955 ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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prospective purchaser agreement assessment	Federal Enforcement	11/26/2002	6/3/2005
forward planning activity/management assistance	EPA Fund-Financed	9/15/2000	9/27/2000
preparation of cost document package	Federal Enforcement	9/2/2000	10/19/2001
remedial design/remedial action negotiations	Federal Enforcement	6/15/2000	10/10/2001
issue request letters (104e)	Federal Enforcement	3/28/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/2/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/1/2000	3/28/2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	2/28/2000	8/26/2002
community advisory group	Community Organization	1/1/2000	8/16/2006
preparation of cost document package	Federal Enforcement	11/29/1999	1/25/2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11/15/1999	6/16/2000
five-year review	EPA Fund-Financed Primary	6/10/1999	12/21/1999
preparation of cost document package	Federal Enforcement	10/21/1998	12/15/1998
five-year review	EPA Fund-Financed Primary	1/15/1998	9/30/2003
national priorities list responsible party search	Federal Enforcement Primary	3/8/1995	3/30/1995
preparation of cost document package	Federal Enforcement Primary	2/26/1994	7/11/1994
preparation of cost document package	Federal Enforcement Primary	12/31/1993	2/25/1994
five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 1 **DIST/DIR:** 0.44 NW **ELEVATION:** **MAP ID:** 85

<p>NAME: DENVER RADIUM SITE ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204</p> <p>CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955 ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993
five-year review	EPA Fund-Financed Primary	4/5/1993	9/12/1994
potentially responsible party remedial action	Responsible Party Primary	3/31/1993	6/16/2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10/26/1992	6/29/1994
potentially responsible party remedial design	Responsible Party Alternate	6/7/1992	3/31/1993
potentially responsible party remedial design	Responsible Party Primary	6/7/1992	6/27/1996
remedial design/remedial action negotiations	Federal Enforcement Primary	1/28/1992	8/21/1992
preparation of cost document package	Federal Enforcement Primary	12/30/1991	2/11/1994
state support agency cooperative agreement	State, Fund Financed Primary	7/25/1991	9/25/2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	7/17/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	9/9/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/11/1991	8/8/1991
national priorities list responsible party search	Federal Enforcement	5/24/1991	5/24/1991
preparation of cost document package	Federal Enforcement Primary	3/30/1991	9/30/1991
national priorities list responsible party search	Federal Enforcement Primary	1/21/1991	7/23/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	6/21/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	5/29/1992
state support agency cooperative agreement	Federal Enforcement	8/6/1990	9/29/1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 1 **DIST/DIR:** 0.44 NW **ELEVATION:** **MAP ID:** 85

<p>NAME: DENVER RADIUM SITE ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955 ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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	Primary		
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/1/1988	9/12/1988
state support agency cooperative agreement	State, Fund Financed Primary	2/12/1988	7/20/1989
potentially responsible party remedial design	Responsible Party Primary	12/11/1987	3/1/1990
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	8/3/1987	3/31/1988
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/22/1987	8/25/1987
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	4/30/1987	6/29/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	3/24/1987	6/2/1987
national priorities list responsible party search	Federal Enforcement Primary	9/12/1986	3/1/1990
national priorities list responsible party search	Federal Enforcement	5/8/1986	1/16/1987
state support agency cooperative agreement	State, Fund Financed Primary	4/10/1986	4/11/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	5/8/1986
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	1/16/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11/26/1984	1/16/1985
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	1/3/1984	1/3/1984
state support agency cooperative agreement	State, Fund Financed Primary	8/19/1983	11/14/2000
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12/31/1981	12/31/1981
notice letters issued	EPA Fund-Financed	8/10/1982	

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 1 **DIST/DIR:** 0.44 NW **ELEVATION:** **MAP ID:** 85

<p>NAME: DENVER RADIUM SITE ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204</p> <p>CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955 ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	Federal Enforcement	8/10/1982
hazard ranking system package	EPA Fund-Financed	12/1/1982
proposal to national priorities list	EPA Fund-Financed	12/30/1982
final listing on national priorities list	EPA Fund-Financed	9/8/1983
notice letters issued	EPA Fund-Financed	12/28/1984
issue request letters (104e)	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	12/28/1984
notice letters issued	EPA Fund-Financed	5/22/1987
issue request letters (104e)	Federal Enforcement	5/22/1987
notice letters issued	Federal Enforcement	5/22/1987
issue request letters (104e)	Federal Enforcement	6/3/1987
special notice issued	Federal Enforcement	7/1/1987
issue request letters (104e)	Federal Enforcement	7/23/1987
notice letters issued	EPA Fund-Financed	10/29/1987
notice letters issued	Federal Enforcement	10/29/1987
issue request letters (104e)	Federal Enforcement	5/13/1988
administrative order on consent	Federal Enforcement Primary	7/22/1988
public notice published	Coast Guard	9/20/1989

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 119 **DIST/DIR:** 0.44 -E **ELEVATION:** 5252 **MAP ID:** 86

NAME: BAKER MIDDLE SCHOOL
ADDRESS: 574 WEST 6TH AVE
DENVER CO 80204

REV: 04/04/11
ID1: 5175
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 1/24/1990

LINK: http://costis.cdle.state.co.us/event.asp?h_id=5175

LUST

SEARCH ID: 117 **DIST/DIR:** 0.48 NE **ELEVATION:** 5238 **MAP ID:** 87

NAME: AMICK MOVING AND STORAGE
ADDRESS: 1029 SANTA FE DR
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 3116
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 5/12/1993

LINK: http://costis.cdle.state.co.us/event.asp?h_id=3116

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 118 **DIST/DIR:** 0.48 NE **ELEVATION:** 5238 **MAP ID:** 87

NAME: AMICK MOVING AND STORAGE
ADDRESS: 1029 SANTA FE DR
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 9471
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 4/7/2004 9:37:10 AM

LINK: http://costis.cdle.state.co.us/event.asp?h_id=9471

LUST

SEARCH ID: 153 **DIST/DIR:** 0.48 SW **ELEVATION:** 5204 **MAP ID:** 88

NAME: WYLACO SUPPLY CO
ADDRESS: 295 VALLEJO
DENVER CO 80223
DENVER

REV: 04/04/11
ID1: 1375
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 8/27/1991

LINK: http://costis.cdle.state.co.us/event.asp?h_id=1375

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 8 **DIST/DIR:** 0.50 NW **ELEVATION:** **MAP ID:** 89

<p>NAME: DENVER RADIUM SITE-OU 9A ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955H ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

CONSTRUCTION COMPLETED DATE: 09/27/2006

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

PARTIALY DELETED DATE: 11/08/2010

FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	4/15/2008	9/30/2008
risk/health assessment	EPA Fund-Financed	4/12/2005	10/13/2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 8 **DIST/DIR:** 0.50 NW **ELEVATION:** **MAP ID:** 89

<p>NAME: DENVER RADIUM SITE-OU 9A ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955H ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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prospective purchaser agreement assessment	Federal Enforcement	11/26/2002	6/3/2005
forward planning activity/management assistance	EPA Fund-Financed	9/15/2000	9/27/2000
preparation of cost document package	Federal Enforcement	9/2/2000	10/19/2001
remedial design/remedial action negotiations	Federal Enforcement	6/15/2000	10/10/2001
issue request letters (104e)	Federal Enforcement	3/28/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/2/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/1/2000	3/28/2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	2/28/2000	8/26/2002
community advisory group	Community Organization	1/1/2000	8/16/2006
preparation of cost document package	Federal Enforcement	11/29/1999	1/25/2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11/15/1999	6/16/2000
five-year review	EPA Fund-Financed Primary	6/10/1999	12/21/1999
preparation of cost document package	Federal Enforcement	10/21/1998	12/15/1998
five-year review	EPA Fund-Financed Primary	1/15/1998	9/30/2003
national priorities list responsible party search	Federal Enforcement Primary	3/8/1995	3/30/1995
preparation of cost document package	Federal Enforcement Primary	2/26/1994	7/11/1994
preparation of cost document package	Federal Enforcement Primary	12/31/1993	2/25/1994
five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 8 **DIST/DIR:** 0.50 NW **ELEVATION:** **MAP ID:** 89

<p>NAME: DENVER RADIUM SITE-OU 9A ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955H ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993
five-year review	EPA Fund-Financed Primary	4/5/1993	9/12/1994
potentially responsible party remedial action	Responsible Party Primary	3/31/1993	6/16/2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10/26/1992	6/29/1994
potentially responsible party remedial design	Responsible Party Alternate	6/7/1992	3/31/1993
potentially responsible party remedial design	Responsible Party Primary	6/7/1992	6/27/1996
remedial design/remedial action negotiations	Federal Enforcement Primary	1/28/1992	8/21/1992
preparation of cost document package	Federal Enforcement Primary	12/30/1991	2/11/1994
state support agency cooperative agreement	State, Fund Financed Primary	7/25/1991	9/25/2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	7/17/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	9/9/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/11/1991	8/8/1991
national priorities list responsible party search	Federal Enforcement	5/24/1991	5/24/1991
preparation of cost document package	Federal Enforcement Primary	3/30/1991	9/30/1991
national priorities list responsible party search	Federal Enforcement Primary	1/21/1991	7/23/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	6/21/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	5/29/1992
state support agency cooperative agreement	Federal Enforcement	8/6/1990	9/29/1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 8 **DIST/DIR:** 0.50 NW **ELEVATION:** **MAP ID:** 89

<p>NAME: DENVER RADIUM SITE-OU 9A ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955H ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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	Primary		
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/1/1988	9/12/1988
state support agency cooperative agreement	State, Fund Financed Primary	2/12/1988	7/20/1989
potentially responsible party remedial design	Responsible Party Primary	12/11/1987	3/1/1990
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	8/3/1987	3/31/1988
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/22/1987	8/25/1987
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	4/30/1987	6/29/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	3/24/1987	6/2/1987
national priorities list responsible party search	Federal Enforcement Primary	9/12/1986	3/1/1990
national priorities list responsible party search	Federal Enforcement	5/8/1986	1/16/1987
state support agency cooperative agreement	State, Fund Financed Primary	4/10/1986	4/11/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	5/8/1986
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	1/16/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11/26/1984	1/16/1985
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	1/3/1984	1/3/1984
state support agency cooperative agreement	State, Fund Financed Primary	8/19/1983	11/14/2000
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12/31/1981	12/31/1981
notice letters issued	EPA Fund-Financed	8/10/1982	

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 8 **DIST/DIR:** 0.50 NW **ELEVATION:** **MAP ID:** 89

<p>NAME: DENVER RADIUM SITE-OU 9A ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955H ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	Federal Enforcement	8/10/1982
hazard ranking system package	EPA Fund-Financed	12/1/1982
proposal to national priorities list	EPA Fund-Financed	12/30/1982
final listing on national priorities list	EPA Fund-Financed	9/8/1983
notice letters issued	EPA Fund-Financed	12/28/1984
issue request letters (104e)	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	5/22/1987
issue request letters (104e)	Federal Enforcement	5/22/1987
notice letters issued	EPA Fund-Financed	5/22/1987
issue request letters (104e)	Federal Enforcement	6/3/1987
special notice issued	Federal Enforcement	7/1/1987
issue request letters (104e)	Federal Enforcement	7/23/1987
notice letters issued	Federal Enforcement	10/29/1987
notice letters issued	EPA Fund-Financed	10/29/1987
issue request letters (104e)	Federal Enforcement	5/13/1988
administrative order on consent	Federal Enforcement Primary	7/22/1988
public notice published	Coast Guard	9/20/1989

- More Details Exist For This Site; Max Page Limit Reached -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 115 **DIST/DIR:** 0.50 NE **ELEVATION:** 5236 **MAP ID:** 90

NAME: ADCO GENERAL CORP
ADDRESS: 1080 KALAMATH
DENVER CO 80204
DENVER

REV: 04/04/11
ID1: 263
ID2:
STATUS: CLOSED
PHONE:

CONTACT:
SOURCE: COSTIS

LUST INFORMATION

STATUS: Closed
LOG DATE: 10/8/1993

LINK: http://costis.cdle.state.co.us/event.asp?h_id=263

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 16 **DIST/DIR:** 0.51 NW **ELEVATION:** 5201 **MAP ID:** 91

NAME: KATZSON BROTHERS INC	REV: 1/11/11
ADDRESS: 960 VALLEJO ST DENVER CO 80204	ID1: COD031992225
	ID2:
CONTACT:	STATUS: CA
SOURCE: EPA	PHONE:

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS:
GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE	

NAIC INFORMATION

42299 - OTHER MISCELLANEOUS NONDURABLE GOODS WHOLESALERS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

CORRECTIVE ACTION INFORMATION

CA EVENT:	19930111	CA110 - RFI Workplan Received
CA EVENT:	19960123	CA110 - RFI Workplan Received
CA EVENT:	19930127	CA120 - RFI Workplan Modification Requested by Agency
CA EVENT:	19930311	CA150 - RFI WORKPLAN APPROVED
CA EVENT:	19940414	CA195 - RFI Progress Reports Received
CA EVENT:	19930515	CA180 - RFI Implementation Begun
CA EVENT:	19940609	CA195 - RFI Progress Reports Received
CA EVENT:	19930617	CA190 - RFI Report Received
CA EVENT:	19930617	CA110 - RFI Workplan Received

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 16 **DIST/DIR:** 0.51 NW **ELEVATION:** 5201 **MAP ID:** 91

NAME: KATZSON BROTHERS INC
ADDRESS: 960 VALLEJO ST
DENVER CO 80204

REV: 1/11/11
ID1: COD031992225
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19930618 CA120 - RFI Workplan Modification Requested by Agency
CA EVENT: 19930618 CA150 - RFI WORKPLAN APPROVED
CA EVENT: 19950801 CA225YE - STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
CA EVENT: 19950801 CA725YE - HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA EVENT: 19940926 CA195 - RFI Progress Reports Received
CA EVENT: 19921103 CA006AC - Area of Concern
CA EVENT: 19921103 CA060 - NOTICE OF CONTAMINATION
CA EVENT: 19921207 CA070YE - DETERMINATION OF NEED FOR A RFI-RFI IS NECESSARY
CA EVENT: 19921207 CA075ME - CA PRIORITIZATION-MEDIUM CA PRIORITY
CA EVENT: 19921207 CA100 - RFI IMPOSITION

HAZARDOUS WASTE INFORMATION:

U210 - Ethene, tetrachloro- (OR) Tetrachloroethylene

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 15 **DIST/DIR:** 0.54 NW **ELEVATION:** 5200 **MAP ID:** 92

NAME: GandK SERVICE INCORPORATED
ADDRESS: 999 VALLEJO ST
DENVER CO 80204

REV: 1/11/11
ID1: COD983789447
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

CORRECTIVE ACTION INFORMATION

CA EVENT:	19920302	CA190 - RFI Report Received
CA EVENT:	20030304	CA200 - RFI APPROVED
CA EVENT:	20030304	CA250 - CMS Imposition
CA EVENT:	19930311	CA120 - RFI Workplan Modification Requested by Agency
CA EVENT:	19930513	CA110 - RFI Workplan Received
CA EVENT:	19930513	CA150 - RFI WORKPLAN APPROVED
CA EVENT:	19930709	CA180 - RFI Implementation Begun
CA EVENT:	19900717	CA110 - RFI Workplan Received
CA EVENT:	19900717	CA006AC - Area of Concern
CA EVENT:	19900717	CA060 - NOTICE OF CONTAMINATION

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 15 **DIST/DIR:** 0.54 NW **ELEVATION:** 5200 **MAP ID:** 92

NAME: GandK SERVICE INCORPORATED
ADDRESS: 999 VALLEJO ST
DENVER CO 80204

REV: 1/11/11
ID1: COD983789447
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19950801 CA225IN - STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION
NECESSARY

CA EVENT: 19950801 CA725YE - HUMAN EXPOSURES CONTROLLED DETERMINATION-YES,
APPLICABLE AS OF THIS DATE

CA EVENT: 19930803 CA195 - RFI Progress Reports Received

CA EVENT: 19950811 CA075ME - CA PRIORITIZATION-MEDIUM CA PRIORITY

CA EVENT: 19900828 CA100 - RFI IMPOSITION

CA EVENT: 19900828 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 20061016 CA190 - RFI Report Received

CA EVENT: 20061016 CA260 - CMS Workplan Received

CA EVENT: 19921027 CA195 - RFI Progress Reports Received

CA EVENT: 20021121 CA190 - RFI Report Received

CA EVENT: 20061130 CA200 - RFI APPROVED

CA EVENT: 20061130 CA270 - CMS Workplan Modification Requested by Agency

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 4 **DIST/DIR:** 0.57 S- **ELEVATION:** **MAP ID:** 93

<p>NAME: DENVER RADIUM SITE 97 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955N ID2: 0800247N STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006
FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	04-15-2008	09-30-2008
risk/health assessment	EPA Fund-Financed	04-12-2005	10-13-2005
prospective purchaser agreement assessment	Federal Enforcement	11-26-2002	06-03-2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 4 **DIST/DIR:** 0.57 S- **ELEVATION:** **MAP ID:** 93

<p>NAME: DENVER RADIUM SITE 97 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955N ID2: 0800247N STATUS: FINAL PHONE: 3033126707</p>
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forward planning activity/management assistance	EPA Fund-Financed	09-15-2000	09-27-2000
preparation of cost document package	Federal Enforcement	09-02-2000	10-19-2001
remedial design/remedial action negotiations	Federal Enforcement	06-15-2000	10-10-2001
issue request letters (104e)	Federal Enforcement	03-28-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-02-2000	03-28-2000
national priorities list responsible party search	Federal Enforcement Primary	03-01-2000	03-28-2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	02-28-2000	08-26-2002
community advisory group	Community Organization	01-01-2000	08-16-2006
preparation of cost document package	Federal Enforcement	11-29-1999	01-25-2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11-15-1999	06-16-2000
five-year review	EPA Fund-Financed Primary	06-10-1999	12-21-1999
preparation of cost document package	Federal Enforcement	10-21-1998	12-15-1998
five-year review	EPA Fund-Financed Primary	01-15-1998	09-30-2003
national priorities list responsible party search	Federal Enforcement Primary	03-08-1995	03-30-1995
preparation of cost document package	Federal Enforcement Primary	02-26-1994	07-11-1994
preparation of cost document package	Federal Enforcement Primary	12-31-1993	02-25-1994
potentially responsible party removal Cleaned up	Responsible Party Primary	06-29-1993	08-27-1993

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 4 **DIST/DIR:** 0.57 S- **ELEVATION:** **MAP ID:** 93

<p>NAME: DENVER RADIUM SITE 97 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955N ID2: 0800247N STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	06-01-1993	09-30-1993
five-year review	EPA Fund-Financed Primary	04-05-1993	09-12-1994
potentially responsible party remedial action	Responsible Party Primary	03-31-1993	06-16-2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10-26-1992	06-29-1994
potentially responsible party remedial design	Responsible Party Alternate	06-07-1992	03-31-1993
potentially responsible party remedial design	Responsible Party Primary	06-07-1992	06-27-1996
remedial design/remedial action negotiations	Federal Enforcement Primary	01-28-1992	08-21-1992
preparation of cost document package	Federal Enforcement Primary	12-30-1991	02-11-1994
state support agency cooperative agreement	State, Fund Financed Primary	07-25-1991	09-25-2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	07-17-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-26-1991	09-09-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	06-11-1991	08-08-1991
national priorities list responsible party search	Federal Enforcement	05-24-1991	05-24-1991
preparation of cost document package	Federal Enforcement Primary	03-30-1991	09-30-1991
national priorities list responsible party search	Federal Enforcement Primary	01-21-1991	07-23-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	06-21-1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-09-1991	05-29-1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 4 **DIST/DIR:** 0.57 S- **ELEVATION:** **MAP ID:** 93

<p>NAME: DENVER RADIUM SITE 97 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955N ID2: 0800247N STATUS: FINAL PHONE: 3033126707</p>
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state support agency cooperative agreement	Federal Enforcement Primary	08-06-1990	09-29-1992	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-01-1988	09-12-1988	
state support agency cooperative agreement	State, Fund Financed Primary	02-12-1988	07-20-1989	
potentially responsible party remedial design	Responsible Party Primary	12-11-1987	03-01-1990	
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	08-03-1987	03-31-1988	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	07-22-1987	08-25-1987	
remedial investigation/feasibility study workplan approval by hq Primary	Federal Enforcement	04-30-1987	06-29-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	03-24-1987	06-02-1987	
national priorities list responsible party search	Federal Enforcement Primary	09-12-1986	03-01-1990	
national priorities list responsible party search	Federal Enforcement	05-08-1986	01-16-1987	
state support agency cooperative agreement	State, Fund Financed Primary	04-10-1986	04-11-1991	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	05-08-1986	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	01-16-1985	01-16-1987	
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11-26-1984	01-16-1985	
remedial investigation/feasibility study workplan approval by hq Primary	EPA Fund-Financed	01-03-1984	01-03-1984	
state support agency cooperative agreement	State, Fund Financed Primary	08-19-1983	11-14-2000	
remedial investigation/feasibility study workplan approval by hq Primary	State, Fund Financed	12-31-1981	12-31-1981	
notice letters issued	Federal Enforcement		08-10-1982	

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Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 4 **DIST/DIR:** 0.57 S- **ELEVATION:** **MAP ID:** 93

<p>NAME: DENVER RADIUM SITE 97 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 10/08/08 ID1: COD980716955N ID2: 0800247N STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	08-10-1982
hazard ranking system package	EPA Fund-Financed	12-01-1982
proposal to national priorities list	EPA Fund-Financed	12-30-1982
final listing on national priorities list	EPA Fund-Financed	09-08-1983
notice letters issued	EPA Fund-Financed	12-28-1984
issue request letters (104e)	Federal Enforcement	12-28-1984
notice letters issued	Federal Enforcement	12-28-1984
issue request letters (104e)	Federal Enforcement	05-22-1987
notice letters issued	Federal Enforcement	05-22-1987
notice letters issued	EPA Fund-Financed	05-22-1987
issue request letters (104e)	Federal Enforcement	06-03-1987
special notice issued	Federal Enforcement	07-01-1987
issue request letters (104e)	Federal Enforcement	07-23-1987
notice letters issued	Federal Enforcement	10-29-1987
notice letters issued	EPA Fund-Financed	10-29-1987
issue request letters (104e)	Federal Enforcement	05-13-1988
administrative order on consent	Federal Enforcement Primary	07-22-1988

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 7 **DIST/DIR:** 0.62 NW **ELEVATION:** **MAP ID:** 94

<p>NAME: DENVER RADIUM SITE-OU 7C ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955F ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY: EPA	DISCOVERY DATE: 03-01-79
SITE PROPOSED BY: EPA	PROPOSED DATE: 10-23-81
FINAL LIST BY: EPA	FINAL LIST DATE: 09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006

PARTIALLY DELETED DATE: 11/08/2010

FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	4/15/2008	9/30/2008
risk/health assessment	EPA Fund-Financed	4/12/2005	10/13/2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 7 **DIST/DIR:** 0.62 NW **ELEVATION:** **MAP ID:** 94

<p>NAME: DENVER RADIUM SITE-OU 7C ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955F ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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prospective purchaser agreement assessment	Federal Enforcement	11/26/2002	6/3/2005
forward planning activity/management assistance	EPA Fund-Financed	9/15/2000	9/27/2000
preparation of cost document package	Federal Enforcement	9/2/2000	10/19/2001
remedial design/remedial action negotiations	Federal Enforcement	6/15/2000	10/10/2001
issue request letters (104e)	Federal Enforcement	3/28/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/2/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/1/2000	3/28/2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	2/28/2000	8/26/2002
community advisory group	Community Organization	1/1/2000	8/16/2006
preparation of cost document package	Federal Enforcement	11/29/1999	1/25/2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11/15/1999	6/16/2000
five-year review	EPA Fund-Financed Primary	6/10/1999	12/21/1999
preparation of cost document package	Federal Enforcement	10/21/1998	12/15/1998
five-year review	EPA Fund-Financed Primary	1/15/1998	9/30/2003
national priorities list responsible party search	Federal Enforcement Primary	3/8/1995	3/30/1995
preparation of cost document package	Federal Enforcement Primary	2/26/1994	7/11/1994
preparation of cost document package	Federal Enforcement Primary	12/31/1993	2/25/1994
five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 7 **DIST/DIR:** 0.62 NW **ELEVATION:** **MAP ID:** 94

<p>NAME: DENVER RADIUM SITE-OU 7C ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955F ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993
five-year review	EPA Fund-Financed Primary	4/5/1993	9/12/1994
potentially responsible party remedial action	Responsible Party Primary	3/31/1993	6/16/2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10/26/1992	6/29/1994
potentially responsible party remedial design	Responsible Party Alternate	6/7/1992	3/31/1993
potentially responsible party remedial design	Responsible Party Primary	6/7/1992	6/27/1996
remedial design/remedial action negotiations	Federal Enforcement Primary	1/28/1992	8/21/1992
preparation of cost document package	Federal Enforcement Primary	12/30/1991	2/11/1994
state support agency cooperative agreement	State, Fund Financed Primary	7/25/1991	9/25/2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	7/17/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	9/9/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/11/1991	8/8/1991
national priorities list responsible party search	Federal Enforcement	5/24/1991	5/24/1991
preparation of cost document package	Federal Enforcement Primary	3/30/1991	9/30/1991
national priorities list responsible party search	Federal Enforcement Primary	1/21/1991	7/23/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	6/21/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	5/29/1992
state support agency cooperative agreement	Federal Enforcement	8/6/1990	9/29/1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 7 **DIST/DIR:** 0.62 NW **ELEVATION:** **MAP ID:** 94

<p>NAME: DENVER RADIUM SITE-OU 7C ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955F ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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	Primary		
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/1/1988	9/12/1988
state support agency cooperative agreement	State, Fund Financed Primary	2/12/1988	7/20/1989
potentially responsible party remedial design	Responsible Party Primary	12/11/1987	3/1/1990
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	8/3/1987	3/31/1988
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/22/1987	8/25/1987
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	4/30/1987	6/29/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	3/24/1987	6/2/1987
national priorities list responsible party search	Federal Enforcement Primary	9/12/1986	3/1/1990
national priorities list responsible party search	Federal Enforcement	5/8/1986	1/16/1987
state support agency cooperative agreement	State, Fund Financed Primary	4/10/1986	4/11/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	5/8/1986
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	1/16/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11/26/1984	1/16/1985
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	1/3/1984	1/3/1984
state support agency cooperative agreement	State, Fund Financed Primary	8/19/1983	11/14/2000
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12/31/1981	12/31/1981
notice letters issued	EPA Fund-Financed	8/10/1982	

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 7 **DIST/DIR:** 0.62 NW **ELEVATION:** **MAP ID:** 94

<p>NAME: DENVER RADIUM SITE-OU 7C ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955F ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	Federal Enforcement	8/10/1982
hazard ranking system package	EPA Fund-Financed	12/1/1982
proposal to national priorities list	EPA Fund-Financed	12/30/1982
final listing on national priorities list	EPA Fund-Financed	9/8/1983
notice letters issued	EPA Fund-Financed	12/28/1984
notice letters issued	Federal Enforcement	12/28/1984
issue request letters (104e)	Federal Enforcement	12/28/1984
issue request letters (104e)	Federal Enforcement	5/22/1987
notice letters issued	EPA Fund-Financed	5/22/1987
notice letters issued	Federal Enforcement	5/22/1987
issue request letters (104e)	Federal Enforcement	6/3/1987
special notice issued	Federal Enforcement	7/1/1987
issue request letters (104e)	Federal Enforcement	7/23/1987
notice letters issued	Federal Enforcement	10/29/1987
notice letters issued	EPA Fund-Financed	10/29/1987
issue request letters (104e)	Federal Enforcement	5/13/1988
administrative order on consent	Federal Enforcement Primary	7/22/1988
public notice published	Coast Guard	9/20/1989

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 6 **DIST/DIR:** 0.70 NW **ELEVATION:** **MAP ID:** 95

<p>NAME: DENVER RADIUM SITE-OU 7B ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955E ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006

PARTIALLY DELETED DATE: 11/08/2010

FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	4/15/2008	9/30/2008
risk/health assessment	EPA Fund-Financed	4/12/2005	10/13/2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 6 **DIST/DIR:** 0.70 NW **ELEVATION:** **MAP ID:** 95

<p>NAME: DENVER RADIUM SITE-OU 7B ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955E ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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prospective purchaser agreement assessment	Federal Enforcement	11/26/2002	6/3/2005
forward planning activity/management assistance	EPA Fund-Financed	9/15/2000	9/27/2000
preparation of cost document package	Federal Enforcement	9/2/2000	10/19/2001
remedial design/remedial action negotiations	Federal Enforcement	6/15/2000	10/10/2001
issue request letters (104e)	Federal Enforcement	3/28/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/2/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/1/2000	3/28/2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	2/28/2000	8/26/2002
community advisory group	Community Organization	1/1/2000	8/16/2006
preparation of cost document package	Federal Enforcement	11/29/1999	1/25/2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11/15/1999	6/16/2000
five-year review	EPA Fund-Financed Primary	6/10/1999	12/21/1999
preparation of cost document package	Federal Enforcement	10/21/1998	12/15/1998
five-year review	EPA Fund-Financed Primary	1/15/1998	9/30/2003
national priorities list responsible party search	Federal Enforcement Primary	3/8/1995	3/30/1995
preparation of cost document package	Federal Enforcement Primary	2/26/1994	7/11/1994
preparation of cost document package	Federal Enforcement Primary	12/31/1993	2/25/1994
five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 6 **DIST/DIR:** 0.70 NW **ELEVATION:** **MAP ID:** 95

<p>NAME: DENVER RADIUM SITE-OU 7B ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955E ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993
five-year review	EPA Fund-Financed Primary	4/5/1993	9/12/1994
potentially responsible party remedial action	Responsible Party Primary	3/31/1993	6/16/2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10/26/1992	6/29/1994
potentially responsible party remedial design	Responsible Party Alternate	6/7/1992	3/31/1993
potentially responsible party remedial design	Responsible Party Primary	6/7/1992	6/27/1996
remedial design/remedial action negotiations	Federal Enforcement Primary	1/28/1992	8/21/1992
preparation of cost document package	Federal Enforcement Primary	12/30/1991	2/11/1994
state support agency cooperative agreement	State, Fund Financed Primary	7/25/1991	9/25/2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	7/17/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	9/9/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/11/1991	8/8/1991
national priorities list responsible party search	Federal Enforcement	5/24/1991	5/24/1991
preparation of cost document package	Federal Enforcement Primary	3/30/1991	9/30/1991
national priorities list responsible party search	Federal Enforcement Primary	1/21/1991	7/23/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	6/21/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	5/29/1992
state support agency cooperative agreement	Federal Enforcement	8/6/1990	9/29/1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 6 **DIST/DIR:** 0.70 NW **ELEVATION:** **MAP ID:** 95

<p>NAME: DENVER RADIUM SITE-OU 7B ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955E ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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	Primary		
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/1/1988	9/12/1988
state support agency cooperative agreement	State, Fund Financed Primary	2/12/1988	7/20/1989
potentially responsible party remedial design	Responsible Party Primary	12/11/1987	3/1/1990
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	8/3/1987	3/31/1988
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/22/1987	8/25/1987
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	4/30/1987	6/29/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	3/24/1987	6/2/1987
national priorities list responsible party search	Federal Enforcement Primary	9/12/1986	3/1/1990
national priorities list responsible party search	Federal Enforcement	5/8/1986	1/16/1987
state support agency cooperative agreement	State, Fund Financed Primary	4/10/1986	4/11/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	5/8/1986
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	1/16/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11/26/1984	1/16/1985
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	1/3/1984	1/3/1984
state support agency cooperative agreement	State, Fund Financed Primary	8/19/1983	11/14/2000
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12/31/1981	12/31/1981
notice letters issued	EPA Fund-Financed	8/10/1982	

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 6 **DIST/DIR:** 0.70 NW **ELEVATION:** **MAP ID:** 95

<p>NAME: DENVER RADIUM SITE-OU 7B ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955E ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	Federal Enforcement	8/10/1982
hazard ranking system package	EPA Fund-Financed	12/1/1982
proposal to national priorities list	EPA Fund-Financed	12/30/1982
final listing on national priorities list	EPA Fund-Financed	9/8/1983
notice letters issued	EPA Fund-Financed	12/28/1984
issue request letters (104e)	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	5/22/1987
issue request letters (104e)	Federal Enforcement	5/22/1987
notice letters issued	EPA Fund-Financed	5/22/1987
issue request letters (104e)	Federal Enforcement	6/3/1987
special notice issued	Federal Enforcement	7/1/1987
issue request letters (104e)	Federal Enforcement	7/23/1987
notice letters issued	Federal Enforcement	10/29/1987
notice letters issued	EPA Fund-Financed	10/29/1987
issue request letters (104e)	Federal Enforcement	5/13/1988
administrative order on consent	Federal Enforcement Primary	7/22/1988
public notice published	Coast Guard	9/20/1989

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 5 **DIST/DIR:** 0.72 NW **ELEVATION:** **MAP ID:** 96

<p>NAME: DENVER RADIUM SITE-OU 10 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955I ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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SITE INFORMATION

EVENT TYPE

SITE DISCOVERY BY:	EPA	DISCOVERY DATE:	03-01-79
SITE PROPOSED BY:	EPA	PROPOSED DATE:	10-23-81
FINAL LIST BY:	EPA	FINAL LIST DATE:	09-08-83

ACTIVITIES: 65 SEPARATE PROPERTIES COMBINED INTO 11 OPERABLE UNITS

CONTAMINANTS: RADIUM, THORIUM, URANIUM, ARSENIC, LEAD, RADON GAS

SOURCE OF CONTAMINATION:

CONTAMINATED: SOILS, DEBRIS

THREATENED:

SITE DESCRIPTION

Conditions at listing (October 1981): A 1915 U.S. Bureau of Mines report refers to a National Radium Institute in Denver, which led to the identification of 35 Colorado properties where radium was processed, refined, or fabricated into various devices or products. Of these properties, 31 are located in the metropolitan Denver area and include vacant land, industrial operations, buildings, and public streets. Other disposition of this radioactive residue is still unknown. All locations have varying levels of radioactivity. In June 1981, using funds available under the Resource Conservation and Recovery Act, EPA awarded a \$100,000 Cooperative Agreement to Colorado, and added \$178,600 in September 1981. The funds were to (1) conduct remedial investigations to determine the extent and type of contamination within each of the 31 Denver properties and (2) undertake design activities at 9.

Status (July 1983): In August 1982, EPA provided an additional \$15,000 in contract support for a feasibility study to identify alternatives for remedial action at the properties. EPA plans to spend about \$250,000 to extend the remedial investigation outside the boundaries of six properties and to complete a feasibility study consistent with CERCLA guidelines. Studies of five properties have been completed; the remaining 26 are scheduled for completion by the third quarter of 1984.

CONSTRUCTION COMPLETED DATE: 09/27/2006

PARTIALLY DELETED DATE: 11/08/2010

FINAL DATE: 09/08/1983

CERCLIS DETAILS

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
five-year review	EPA Fund-Financed	4/15/2008	9/30/2008
risk/health assessment	EPA Fund-Financed	4/12/2005	10/13/2005

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 5 **DIST/DIR:** 0.72 NW **ELEVATION:** **MAP ID:** 96

<p>NAME: DENVER RADIUM SITE-OU 10 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955I ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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prospective purchaser agreement assessment	Federal Enforcement	11/26/2002	6/3/2005
forward planning activity/management assistance	EPA Fund-Financed	9/15/2000	9/27/2000
preparation of cost document package	Federal Enforcement	9/2/2000	10/19/2001
remedial design/remedial action negotiations	Federal Enforcement	6/15/2000	10/10/2001
issue request letters (104e)	Federal Enforcement	3/28/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/2/2000	3/28/2000
national priorities list responsible party search	Federal Enforcement Primary	3/1/2000	3/28/2000
groundwater monitoring (post-record of decision)	Responsible Party Primary	2/28/2000	8/26/2002
community advisory group	Community Organization	1/1/2000	8/16/2006
preparation of cost document package	Federal Enforcement	11/29/1999	1/25/2000
combined remedial investigation/feasibility study	EPA Fund-Financed	11/15/1999	6/16/2000
five-year review	EPA Fund-Financed Primary	6/10/1999	12/21/1999
preparation of cost document package	Federal Enforcement	10/21/1998	12/15/1998
five-year review	EPA Fund-Financed Primary	1/15/1998	9/30/2003
national priorities list responsible party search	Federal Enforcement Primary	3/8/1995	3/30/1995
preparation of cost document package	Federal Enforcement Primary	2/26/1994	7/11/1994
preparation of cost document package	Federal Enforcement Primary	12/31/1993	2/25/1994
five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993

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Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 5 **DIST/DIR:** 0.72 NW **ELEVATION:** **MAP ID:** 96

<p>NAME: DENVER RADIUM SITE-OU 10 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955I ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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five-year review	EPA Fund-Financed Primary	6/1/1993	9/30/1993
five-year review	EPA Fund-Financed Primary	4/5/1993	9/12/1994
potentially responsible party remedial action	Responsible Party Primary	3/31/1993	6/16/2000 Other Completion Anomaly
potentially responsible party remedial action Higher priority for further assessment	Responsible Party Primary	10/26/1992	6/29/1994
potentially responsible party remedial design	Responsible Party Alternate	6/7/1992	3/31/1993
potentially responsible party remedial design	Responsible Party Primary	6/7/1992	6/27/1996
remedial design/remedial action negotiations	Federal Enforcement Primary	1/28/1992	8/21/1992
preparation of cost document package	Federal Enforcement Primary	12/30/1991	2/11/1994
state support agency cooperative agreement	State, Fund Financed Primary	7/25/1991	9/25/2000
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	7/17/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/26/1991	9/9/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	6/11/1991	8/8/1991
national priorities list responsible party search	Federal Enforcement	5/24/1991	5/24/1991
preparation of cost document package	Federal Enforcement Primary	3/30/1991	9/30/1991
national priorities list responsible party search	Federal Enforcement Primary	1/21/1991	7/23/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	6/21/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/9/1991	5/29/1992
state support agency cooperative agreement	Federal Enforcement	8/6/1990	9/29/1992

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 5 **DIST/DIR:** 0.72 NW **ELEVATION:** **MAP ID:** 96

<p>NAME: DENVER RADIUM SITE-OU 10 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955I ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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	Primary		
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/1/1988	9/12/1988
state support agency cooperative agreement	State, Fund Financed Primary	2/12/1988	7/20/1989
potentially responsible party remedial design	Responsible Party Primary	12/11/1987	3/1/1990
remedial investigation/feasibility study negotiations	Federal Enforcement Alternate	8/3/1987	3/31/1988
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	7/22/1987	8/25/1987
remedial investigation/feasibility study workplan approval by hq	Federal Enforcement Primary	4/30/1987	6/29/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	3/24/1987	6/2/1987
national priorities list responsible party search	Federal Enforcement Primary	9/12/1986	3/1/1990
national priorities list responsible party search	Federal Enforcement	5/8/1986	1/16/1987
state support agency cooperative agreement	State, Fund Financed Primary	4/10/1986	4/11/1991
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	5/8/1986
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	1/16/1985	1/16/1987
national priorities list responsible party search Search Complete, Viable PRPs	Federal Enforcement	11/26/1984	1/16/1985
remedial investigation/feasibility study workplan approval by hq	EPA Fund-Financed Primary	1/3/1984	1/3/1984
state support agency cooperative agreement	State, Fund Financed Primary	8/19/1983	11/14/2000
remedial investigation/feasibility study workplan approval by hq	State, Fund Financed Primary	12/31/1981	12/31/1981
notice letters issued	Federal Enforcement	8/10/1982	

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**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

NPL

SEARCH ID: 5 **DIST/DIR:** 0.72 NW **ELEVATION:** **MAP ID:** 96

<p>NAME: DENVER RADIUM SITE-OU 10 ADDRESS: VARIOUS PLACES IN DENVER DENVER CO 80204 DENVER CONTACT: JACK WHYTE SOURCE: EPA</p>	<p>REV: 1/14/11 ID1: COD980716955I ID2: 0800247 STATUS: FINAL PHONE: 3033126707</p>
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notice letters issued	EPA Fund-Financed	8/10/1982
hazard ranking system package	EPA Fund-Financed	12/1/1982
proposal to national priorities list	EPA Fund-Financed	12/30/1982
final listing on national priorities list	EPA Fund-Financed	9/8/1983
issue request letters (104e)	Federal Enforcement	12/28/1984
notice letters issued	Federal Enforcement	12/28/1984
notice letters issued	EPA Fund-Financed	12/28/1984
issue request letters (104e)	Federal Enforcement	5/22/1987
notice letters issued	EPA Fund-Financed	5/22/1987
notice letters issued	Federal Enforcement	5/22/1987
issue request letters (104e)	Federal Enforcement	6/3/1987
special notice issued	Federal Enforcement	7/1/1987
issue request letters (104e)	Federal Enforcement	7/23/1987
notice letters issued	Federal Enforcement	10/29/1987
notice letters issued	EPA Fund-Financed	10/29/1987
issue request letters (104e)	Federal Enforcement	5/13/1988
administrative order on consent	Federal Enforcement Primary	7/22/1988
public notice published	Coast Guard	9/20/1989

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 20 **DIST/DIR:** 0.73 S- **ELEVATION:** 5211 **MAP ID:** 97

NAME: SAFETY-KLEEN SYSTEMS INC
ADDRESS: 1345 WEST BAYAUD AVE
DENVER CO 80223

REV: 1/11/11
ID1: COD980954101
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	---ST
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

44131 - AUTOMOTIVE PARTS AND ACCESSORIES STORES
561499 - ALL OTHER BUSINESS SUPPORT SERVICES
333319 - OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

ENFORCEMENT INFORMATION:

AGENCY:	S - STATE	DATE:	9/29/1995
TYPE:	125 - NOTICE OF VIOLATION		
AGENCY:	S - STATE	DATE:	5/8/1991
TYPE:	120 - WRITTEN INFORMAL		
AGENCY:	S - STATE	DATE:	5/24/1988
TYPE:	120 - WRITTEN INFORMAL		
AGENCY:	S - STATE	DATE:	1/6/1989
TYPE:	210 - INITIAL 3008(A) COMPLIANCE ORDER		
AGENCY:	S - STATE	DATE:	6/27/1989
TYPE:	310 - FINAL 3008(A) COMPLIANCE ORDER		
AGENCY:	S - STATE	DATE:	3/18/1996
TYPE:	310 - FINAL 3008(A) COMPLIANCE ORDER		

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 20 **DIST/DIR:** 0.73 S- **ELEVATION:** 5211 **MAP ID:** 97

NAME: SAFETY-KLEEN SYSTEMS INC	REV: 1/11/11
ADDRESS: 1345 WEST BAYAUD AVE DENVER CO 80223	ID1: COD980954101
	ID2:
CONTACT:	STATUS: CA
SOURCE: EPA	PHONE:

DETERMINED: 5/24/1988	DETERMINED BY: S - STATE	RESOLVED: 6/9/1988
CITATION:		
TYPE: TSD-OTHER REQUIREMENTS (OVERSIGHT)		

VIOLATION NUMBER: 0002	RESPONSIBLE: S - STATE	RESOLVED: 6/27/1989
DETERMINED: 9/6/1988	DETERMINED BY: S - STATE	
CITATION:		
TYPE: TSD-OTHER REQUIREMENTS (OVERSIGHT)		

VIOLATION NUMBER: 0003	RESPONSIBLE: S - STATE	RESOLVED: 7/7/1989
DETERMINED: 10/4/1988	DETERMINED BY: S - STATE	
CITATION:		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

VIOLATION NUMBER: 0004	RESPONSIBLE: S - STATE	RESOLVED: 6/26/1991
DETERMINED: 4/22/1991	DETERMINED BY: S - STATE	
CITATION:		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

VIOLATION NUMBER: 0005	RESPONSIBLE: S - STATE	RESOLVED: 2/16/1996
DETERMINED: 9/11/1995	DETERMINED BY: S - STATE	
CITATION: 266.18		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

VIOLATION NUMBER: 0006	RESPONSIBLE: S - STATE	RESOLVED: 3/14/1996
DETERMINED: 11/2/1994	DETERMINED BY: S - STATE	
CITATION: 266.14(i)(1)(i)		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

VIOLATION NUMBER: 0007	RESPONSIBLE: S - STATE	RESOLVED: 3/14/1996
DETERMINED: 11/2/1994	DETERMINED BY: S - STATE	
CITATION: 266.16(3)(iv)		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

VIOLATION NUMBER: 0008	RESPONSIBLE: S - STATE	RESOLVED: 5/19/1997
DETERMINED: 1/13/1997	DETERMINED BY: S - STATE	
CITATION: 266.18(h)(2)		
TYPE: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		

CORRECTIVE ACTION INFORMATION

CA EVENT:	19890106 CA050IK
CA EVENT:	19890106 CA070YE - DETERMINATION OF NEED FOR A RFI-RFI IS NECESSARY
CA EVENT:	19920109 CA060 - NOTICE OF CONTAMINATION
CA EVENT:	19920109 CA195 - RFI Progress Reports Received
CA EVENT:	19930317 CA300 - CMS WORKPLAN APPROVED
CA EVENT:	19970317 CA077

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 20 **DIST/DIR:** 0.73 S- **ELEVATION:** 5211 **MAP ID:** 97

NAME: SAFETY-KLEEN SYSTEMS INC
ADDRESS: 1345 WEST BAYAUD AVE
DENVER CO 80223

REV: 1/11/11
ID1: COD980954101
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19970319 CA070NO - DETERMINATION OF NEED FOR A RFI-RFI IS NOT NECESSARY

CA EVENT: 19970319 CA075LO - CA PRIORITIZATION-LOW CA PRIORITY

CA EVENT: 19970319 CA200 - RFI APPROVED

CA EVENT: 19970319 CA050 - RFA COMPLETED

CA EVENT: 19920403 CA260 - CMS Workplan Received

CA EVENT: 19940504 CA340 - CMS Report Received

CA EVENT: 19980504 CA225NR - STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE
TO STABILIZATION

CA EVENT: 19980504 CA999 - Corrective Action Process Terminated

CA EVENT: 19980508 CA725NC - HUMAN EXPOSURES CONTROLLED DETERMINATION-NO CONTROL
MEASURES NEEDED

CA EVENT: 19980508 CA750NR - RELEASE TO GW CONTROLLED DETERMINATION-NO RELEASE TO
GROUNDWATER

CA EVENT: 19950601 CA370 - Petition For No Further Action Receipt Date

CA EVENT: 19910617 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 19910617 CA100 - RFI IMPOSITION

CA EVENT: 19910617 CA006AC - Area of Concern

CA EVENT: 19910703 CA180 - RFI Implementation Begun

CA EVENT: 19940929 CA345 - CMS Progress Reports Received

CA EVENT: 19931008 CA195 - RFI Progress Reports Received

CA EVENT: 19931206 CA330 - CMS Implementation Begun

HAZARDOUS WASTE INFORMATION:

F004 - The following spent non-halogenated solvents: cresols, cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above

D001 - Ignitable waste

F001 - The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixt

F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoro

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 18 **DIST/DIR:** 0.75 S- **ELEVATION:** 5212 **MAP ID:** 98

NAME:	MALLOW PLATING WORKS INC	REV:	1/11/11
ADDRESS:	118 SOUTH PECOS ST DENVER CO 80223	ID1:	COD007076813
CONTACT:		ID2:	
SOURCE:	EPA	STATUS:	CA
		PHONE:	

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

332813 - ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

VIOLATION NUMBER:	0001	RESPONSIBLE:	S - STATE
DETERMINED:	7/24/1992	DETERMINED BY:	S - STATE
CITATION:		RESOLVED:	9/22/1994
TYPE:	GENERATOR-GENERAL REQUIREMENTS		

CORRECTIVE ACTION INFORMATION

CA EVENT:	19930301	CA190 - RFI Report Received
CA EVENT:	19950801	CA225YE - STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
CA EVENT:	19950801	CA725YE - HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA EVENT:	19950801	CA750YE - RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA EVENT:	19950811	CA075LO - CA PRIORITIZATION-LOW CA PRIORITY
CA EVENT:	19940815	CA195 - RFI Progress Reports Received

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 18 **DIST/DIR:** 0.75 S- **ELEVATION:** 5212 **MAP ID:** 98

NAME: MALLOW PLATING WORKS INC
ADDRESS: 118 SOUTH PECOS ST
DENVER CO 80223

REV: 1/11/11
ID1: COD007076813
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19950820 CA006AC - Area of Concern

CA EVENT: 19920820 CA100 - RFI IMPOSITION

CA EVENT: 19920820 CA250 - CMS Imposition

CA EVENT: 19940930 CA195 - RFI Progress Reports Received

CA EVENT: 19941025 CA999 - Corrective Action Process Terminated

CA EVENT: 19921124 CA110 - RFI Workplan Received

CA EVENT: 19921201 CA600SR - STABILIZATION MEASURES IMPLEMENTED-PRIMARY MEAS IS SOURCE
REMOVL and/OR TRT

CA EVENT: 19921214 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 19921214 CA300 - CMS WORKPLAN APPROVED

CA EVENT: 19921214 CA400 - DATE FOR REMEDY SELECTION (CM IMPOSED)

CA EVENT: 19921214 CA500 - CMI WORKPLAN APPROVED

CA EVENT: 19921221 CA180 - RFI Implementation Begun

HAZARDOUS WASTE INFORMATION:

F009 - Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.
F008 - Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.
F006 - Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon
F007 - Spent cyanide plating bath solutions from electroplating operations.

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 19 **DIST/DIR:** 0.82 SE **ELEVATION:** 5243 **MAP ID:** 99

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 WEST W. BAYAUD AVE
DENVER CO 80223

REV: 1/11/11
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 1/30/1996
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 9/24/1993
TYPE: 340 - FINAL 3008(H) I.S. CA ORDERS (NON-HSWA)

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE
DETERMINED: 7/26/1993 **DETERMINED BY:** S - STATE
CITATION: 261.24 260.10 100.10 **RESOLVED:** 9/24/1993
TYPE: GENERATOR-OTHER REQUIREMENTS

VIOLATION NUMBER: 0002 **RESPONSIBLE:** S - STATE
DETERMINED: 2/1/1996 **DETERMINED BY:** S - STATE
CITATION: 262.11 279.22(c) **RESOLVED:** 3/20/1996
TYPE: GENERATOR-OTHER REQUIREMENTS

CORRECTIVE ACTION INFORMATION

CA EVENT: 19930111 CA070
CA EVENT: 19930111 CA110 - RFI Workplan Received

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 19 **DIST/DIR:** 0.82 SE **ELEVATION:** 5243 **MAP ID:** 99

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 WEST W. BAYAUD AVE
DENVER CO 80223

REV: 1/11/11
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT:	19930111	CA060 - NOTICE OF CONTAMINATION
CA EVENT:	19930111	CA006AC - Area of Concern
CA EVENT:	19940126	CA260 - CMS Workplan Received
CA EVENT:	19940202	CA300 - CMS WORKPLAN APPROVED
CA EVENT:	19940202	CA400 - DATE FOR REMEDY SELECTION (CM IMPOSED)
CA EVENT:	19940202	CA450 - CORRECTIVE MEASURES DESIGN APPROVED
CA EVENT:	19940202	CA500 - CMI WORKPLAN APPROVED
CA EVENT:	19950222	CA190 - RFI Report Received
CA EVENT:	19950228	CA190 - RFI Report Received
CA EVENT:	19930305	CA100 - RFI IMPOSITION
CA EVENT:	19930305	CA120 - RFI Workplan Modification Requested by Agency
CA EVENT:	19950512	CA999 - Corrective Action Process Terminated
CA EVENT:	19950517	CA999 - Corrective Action Process Terminated
CA EVENT:	19950601	CA190 - RFI Report Received
CA EVENT:	20010706	CA510 - DETERMINATION OF TECH IMPRACTICABILITY
CA EVENT:	20010720	CA841TS
CA EVENT: STABILIZATION	19950801	CA225YE - STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO
CA EVENT: APPLICABLE AS OF THIS DATE	19950801	CA725YE - HUMAN EXPOSURES CONTROLLED DETERMINATION-YES,
CA EVENT: OF THIS DATE	19950801	CA750YE - RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS
CA EVENT:	19950811	CA075LO - CA PRIORITIZATION-LOW CA PRIORITY
CA EVENT:	19950811	CA999 - Corrective Action Process Terminated
CA EVENT:	19950911	CA999 - Corrective Action Process Terminated
CA EVENT:	19930924	CA250 - CMS Imposition
CA EVENT:	19931119	CA110 - RFI Workplan Received
CA EVENT: REMOVL and/OR TRT	19921201	CA600SR - STABILIZATION MEASURES IMPLEMENTED-PRIMARY MEAS IS SOURCE

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 19 **DIST/DIR:** 0.82 SE **ELEVATION:** 5243 **MAP ID:** 99

NAME: PSCO - BARTERS LOT C
ADDRESS: 701 WEST W. BAYAUD AVE
DENVER CO 80223

REV: 1/11/11
ID1: COD982584526
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: 19931201 CA150 - RFI WORKPLAN APPROVED

CA EVENT: 19931201 CA180 - RFI Implementation Begun

HAZARDOUS WASTE INFORMATION:

D008 - Lead

Environmental FirstSearch
Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 14 **DIST/DIR:** 1.00 NW **ELEVATION:** 5197 **MAP ID:** 100

NAME: EVERSMAN MANUFACTURING CO
ADDRESS: 1145 5TH ST
DENVER CO 80204

REV: 1/11/11
ID1: COD007064397
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

SITE INFORMATION

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	Y - SUBJECT TO CORRECTIVE ACTION
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	----
CLOSURE WORKLOAD:	----
POST CLOSURE WORKLOAD:	----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	----
CORRECTIVE ACTION WORKLOAD:	Y - CORRECTIVE ACTION WORKLOAD
GENERATOR STATUS:	N

NAIC INFORMATION

333111 - FARM MACHINERY AND EQUIPMENT MANUFACTURING

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

CORRECTIVE ACTION INFORMATION

CA EVENT:	CA002Y
CA EVENT:	CA0012
CA EVENT:	19940119 CA999 - Corrective Action Process Terminated
CA EVENT:	19910308 CA190 - RFI Report Received
CA EVENT:	19920316 CA195 - RFI Progress Reports Received
CA EVENT:	19900330 CA060 - NOTICE OF CONTAMINATION
CA EVENT:	19950330 CA006AC - Area of Concern
CA EVENT:	19900514 CA100 - RFI IMPOSITION
CA EVENT:	19990608 CA225NR - STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 14 **DIST/DIR:** 1.00 NW **ELEVATION:** 5197 **MAP ID:** 100

NAME: EVERSMAN MANUFACTURING CO
ADDRESS: 1145 5TH ST
DENVER CO 80204

REV: 1/11/11
ID1: COD007064397
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

CA EVENT: MEASURES NEEDED	19990608	CA725NC - HUMAN EXPOSURES CONTROLLED DETERMINATION-NO CONTROL
CA EVENT: GROUNDWATER	19990608	CA750NR - RELEASE TO GW CONTROLLED DETERMINATION-NO RELEASE TO
CA EVENT:	19990608	CA999 - Corrective Action Process Terminated
CA EVENT:	19930707	CA195 - RFI Progress Reports Received
CA EVENT: OF THIS DATE	19950801	CA750YE - RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS
CA EVENT: STABILIZATION	19950801	CA225YE - STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO
CA EVENT: APPLICABLE AS OF THIS DATE	19950801	CA725YE - HUMAN EXPOSURES CONTROLLED DETERMINATION-YES,
CA EVENT:	19950811	CA075LO - CA PRIORITIZATION-LOW CA PRIORITY
CA EVENT:	19900827	CA110 - RFI Workplan Received
CA EVENT:	19901010	CA120 - RFI Workplan Modification Requested by Agency
CA EVENT:	19931029	CA195 - RFI Progress Reports Received
CA EVENT:	19931101	CA200 - RFI APPROVED
CA EVENT:	19931101	CA250 - CMS Imposition
CA EVENT:	19931115	CA260 - CMS Workplan Received
CA EVENT:	19931117	CA300 - CMS WORKPLAN APPROVED
CA EVENT:	19931117	CA450 - CORRECTIVE MEASURES DESIGN APPROVED
CA EVENT:	19931117	CA500 - CMI WORKPLAN APPROVED
CA EVENT:	19931122	CA330 - CMS Implementation Begun
CA EVENT:	19901128	CA180 - RFI Implementation Begun
CA EVENT: REMOVL and/OR TRT	19931201	CA600SR - STABILIZATION MEASURES IMPLEMENTED-PRIMARY MEAS IS SOURCE

HAZARDOUS WASTE INFORMATION:

U159 - 2-Butanone (I,T) (OR) Methyl ethyl ketone (MEK) (I,T)
U072 - Benzene, 1,4-dichloro- (OR) p-Dichlorobenzene
F018
F017
D007 - Chromium

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

RCRACOR

SEARCH ID: 14	DIST/DIR: 1.00 NW	ELEVATION: 5197	MAP ID: 100
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NAME: EVERSMAN MANUFACTURING CO
ADDRESS: 1145 5TH ST
DENVER CO 80204

REV: 1/11/11
ID1: COD007064397
ID2:
STATUS: CA
PHONE:

CONTACT:
SOURCE: EPA

D008 - Lead

**Environmental FirstSearch
Site Detail Report**

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

LUST

SEARCH ID: 161 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: TRYND	REV: 12/01/08
ADDRESS: TRYND	ID1: LTT-110
DENVER CO	ID2:
DENVER	STATUS: UNKNOWN
CONTACT:	PHONE:
SOURCE: CDPHE	

LUST TRUST TANK SITES

SOURCE OF DATA: From an old CDPHE list of locations where tank leaks were suspected and LUST Trust funds were used in an effort to identify the source. Often, the source was found nearby and was entered in the LUST database (now COSTIS). This listing not entered into COSTIS back when CDPHE transferred responsibility for tank leaks to OPS. Few people at OPS know of this old CDPHE list, and any associated files are thought to have been disposed of or misplaced.

SWL

SEARCH ID: 158 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: ALLIED CHEMICALS DENVER, CO	REV: 12/01/08
ADDRESS: ADDRESS NOT REPORTED	ID1: 12-0383
DENVER CO	ID2: 00070-0001213
DENVER	STATUS: HISTORIC
CONTACT:	PHONE:
SOURCE: CDPHE/COUNTY	

COLORADO HISTORIC LANDFILLS

STATUS : CO Old Waste Sites

5-B IND 7-3 PONDS 9-C 1POND LINED. HAZARD TYPE: CHEMICAL. IMPACT: GW.; TRS- T04 R68 S09
Type- IMPOUNDMENT
Fill- LIQUIDS.
Oper/Ownr/Othr- // ALLIED CHEMICALS CO, ,

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SWL

SEARCH ID: 159	DIST/DIR: NON GC	ELEVATION:	MAP ID:
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NAME: COLORADO DEPT OF HEALTH
ADDRESS: ADDRESS NOT REPORTED
DENVER CO
DENVER

REV: 12/01/08
ID1: 12-039
ID2: 00070-0001220
STATUS: HISTORIC
PHONE:

CONTACT:
SOURCE: CDPHE/COUNTY

COLORADO HISTORIC LANDFILLS

STATUS : CO Old Waste Sites

TRAINING MODE.
Type-
Oper/Ownr/Othr- , ,

***Environmental FirstSearch
Site Detail Report***

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

SWL

SEARCH ID: 160	DIST/DIR: NON GC	ELEVATION:	MAP ID:
-----------------------	-------------------------	-------------------	----------------

NAME: OLD DENVER CITY SWDS	REV: 12/01/08
ADDRESS: ADDRESS NOT REPORTED	ID1: 12-0391
DENVER CO	ID2: 00070-0001221
DENVER	STATUS: HISTORIC
CONTACT:	PHONE:
SOURCE: CDPHE/COUNTY	

COLORADO HISTORIC LANDFILLS

STATUS : CO Old Waste Sites

Type- LANDFILL
Oper/Ownr/Othr- , ,

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. 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.

DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). 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.

NFRAP – No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W – Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN – Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.

MASSACHUSETTS HAZARDOUS WASTE GENERATOR – database of generators that are regulated under the MA DEP.

VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.

SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.

LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are

Federally-administered lands within a reservation which may or may not be considered part of the reservation.
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: CDPHE CO SPL - Colorado does not have an official State Priority List (SPL). However, there are a number of sites that the state seems to place in this sort of category. Some are officially a Natural Resource Damages Site (NRDS) or Private Cleanup Site (Non-Superfund), but they're listed on the state's web page of Superfund sites (www.cdphe.state.co.us/hm/sf_sites.htm). Others are UMTRA (Uranium Mill Tailing Remedial Action) mill tailing cleanup sites (www.cdphe.state.co.us/hm/umsites.htm). Thousands of UMTRA "vicinity properties" have also been identified where mill tailings were used as sand in concrete, roadbase, trenches, bricks, etc. Such properties have been remediated in Durango, Grand Junction, Fruita, Palisade, Gunnison, Maybell, Naturita and Rifle, but some unidentified tailings may still remain in and around these communities. CDPHE's list of vicinity properties is not publicly available and was not searched for this report. Property-specific information is available through the CDPHE Grand Junction office. See www.cdphe.state.co.us/hm/rptailng.htm.

State Spills 90: CDPHE ENVIRONMENTAL RELEASE AND INCIDENT DATABASE - This is a database of reported spills in Colorado.

State/Tribal SWL: CDPHE DATABASE OF ACTIVE SOLID WASTE MANAGEMENT FACILITIES - Listing of Active solid waste facilities and transfer stations.

DATABASE OF ACTIVE SOLID WASTE MANAGEMENT FACILITIES - Listing of Active solid waste facilities and transfer stations.

CO Historic Landfills - This proprietary database represents a compilation of eleven local, regional and state agency sources. The agencies generated these lists on a one-time basis and do not expect to update them. A more detailed description of the applicable source is included with any findings reported from this database. The eleven sources are:

1. Adams County CO Old Landfills
2. Arapahoe County CO Old Landfills
3. Douglas County CO Old Landfills
4. Weld County CO Old Landfills
5. Boulder County CO Old Landfills
6. Jefferson County CO Old Landfills
7. Denver CO Methane Study
8. CO Methane Study
9. DRCOG Methane Study
10. Denver CO Old Fil Sites
11. CO Old Waste Sites

State/Tribal LUST: COSTIS DATABASE OF LEAKING UNDERGROUND STORAGE TANKS - Colorado Department of Labor and Employment's Colorado Storage Tank Information System (COSTIS) provides this data.

LUST Trust Tanks - This is an old list of locations where tank leaks were suspected and LUST (Leaking Underground Storage Tank) Trust funds were used in an effort to identify the source. Often, the facility responsible for the leak was found nearby, and that facility was then entered into the LUST database. In other cases, however, the source was never identified, and nothing was ever entered into the LUST database. When responsibility for the tank program was transferred from CDPHE (Colorado Department of Public Health & Environment) to CDLE (Colorado Department of Labor & Employment) in the '90s, this old LUST Trust list was never entered into the new COSTIS database (Colorado Storage Tank Information System). Few people at CDLE are aware of this old list, and any files associated with the listings have apparently been discarded or misplaced.

State/Tribal UST/AST: COSTIS DATABASE OF UNDERGROUND STORAGE TANKS - Colorado Department of Labor and Employment's Colorado Storage Tank Information System (COSTIS) provides this data.

State/Tribal EC: CDPHE ENVIRONMENTAL COVENANTS - Senate Bill 01-145 gave authority to the Colorado Department of Public Health and Environment to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. When a contaminated site is not cleaned up completely, land use restrictions may be used to ensure that the selected cleanup remedy is

adequately protective of human health and the environment.

State/Tribal VCP: *CDPHE* THE VOLUNTARY CLEANUP AND REDEVELOPMENT PROGRAM PROGRAM - The Voluntary Cleanup and Redevelopment program was created in 1994. The objective of the program is to facilitate the redevelopment and transfer of contaminated properties. Cleanup decisions are based on existing standards and the proposed use of the property. The actual cleanup and verification is the owner's responsibility.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Meth Labs: *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER - Database of 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 U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

Environmental FirstSearch Database Sources

NPL: *EPA* Environmental Protection Agency

Updated quarterly

NPL DELISTED: *EPA* Environmental Protection Agency

Updated quarterly

CERCLIS: *EPA* Environmental Protection Agency

Updated quarterly

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA TSD: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA GEN: *EPA/MA DEP/CT DEP* Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA NLR: *EPA* Environmental Protection Agency

Updated quarterly

ERNS: *EPA/NRC* Environmental Protection Agency

Updated annually

Tribal Lands: *DOI/BIA* United States Department of the Interior

Updated annually

State/Tribal Sites: *CDPHE* The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

State Spills 90: *CDPHE* CDPHE Hazardous Materials and Waste Management Division

Updated annually

State/Tribal SWL: *CDPHE* The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division Public Safety

Updated annually

State/Tribal LUST: *COSTIS* The Colorado Department of Labor and Employment/Division of Oil and Public Safety

Updated semi-annually

State/Tribal UST/AST: *COSTIS* The Colorado Department of Labor and Employment/Division of Oil and Public Safety

Updated semi-annually

State/Tribal EC: *CDPHE* Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

State/Tribal VCP: *CDPHE* The Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division

Updated annually

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

Meth Labs: *US DOJ* U.S. Department of Justice

Updated when available

Environmental FirstSearch
Street Name Report for Streets within .5 Mile(s) of Target Property

Target Property: 6TH AVENUE BRIDGE
DENVER CO 80204

JOB: 11137801.3000

Street Name	Dist/Dir	Street Name	Dist/Dir
Elati St	0.44 -E		
Fox St	0.39 -E		
Galapago St	0.32 -E		
I-25	0.31 SW		
Inca St	0.26 -E		
Kalamath St	0.12 -E		
Lipan St	0.05 -E		
Mariposa St	0.00 --		
N Valley Hwy	0.38 SW		
Navajo St	0.00 --		
Osage St	0.02 SW		
Quivas St	0.09 SW		
Raritan Way	0.15 SW		
Rio Grande Blvd	0.32 SW		
Santa Fe Dr	0.21 NE		
Seminole Rd	0.02 SW		
Tejon St	0.36 NW		
Umatilla St	0.35 NW		
United States Highwa	0.38 SW		
United States Highwa	0.31 SW		
United States Highwa	0.31 SW		
Vallejo St	0.40 NW		
W 10th Ave	0.39 N-		
W 11th Ave	0.49 NE		
W 1st Ave	0.48 S-		
W 2nd Ave	0.43 SE		
W 3rd Ave	0.32 SE		
W 4th Ave	0.20 SE		
W 5th Ave	0.10 SE		
W 6th Ave	0.00 --		
W 6th Ave Fwy	0.33 SW		
W 7th Ave	0.06 N-		
W 8th Ave	0.17 N-		
W 8th Avenue Viaduct	0.14 N-		
W 9th Ave	0.29 N-		
W Barberry Pl	0.40 NW		
W Mulberry Pl	0.46 NW		
Wyandot St	0.45 NW		



August 25, 2011

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 219338-2
Project # / PO #: None Given
Project Description: 6th Ave. Bridge over UPRR

Shannon Lucio
Pinyon Environmental Engineering
9100 West Jewell Ave. Suite 200
Lakewood CO 80232-6357

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the American Industrial Hygiene Association, Lab ID 101533 - Accreditation Certificate #480. The laboratory is currently proficient in both PAT & ELPAT programs respectively.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Inductively Coupled Plasma (AES-ICP) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 219338-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeanne Orr", is written over a light blue horizontal line.

Jeanne Spencer Orr
President

RESERVOIRS ENVIRONMENTAL, INC.

5801 Logan St., Suite 100

Denver CO 80216

TABLE ANALYSIS: LEAD IN PAINT

RES Job Number: **RES 219338-2**
Client: **Pinyon Environmental Engineering**
Client Project Number / P.O.: **None Given**
Client Project Description: **6th Ave. Bridge over UPRR**
Date Samples Received: **August 23, 2011**
Analysis Type: **USEPA SW846 3050B / AA (7420)**
Turnaround: **3 Day**
Date Samples Analyzed: **August 24, 2011**

Client ID Number	Lab ID Number	Reporting Limit (%)	LEAD CONCENTRATION (%)
PC-1	EM 785456	0.003	0.070
PC-2	EM 785457	0.005	BRL
PC-3	EM 785458	0.003	7.246
PC-4	EM 785459	0.004	2.693

*** Unless otherwise noted all quality control samples performed within specifications established by the laboratory.**

Due Date: 8-26-11
 Due Time: 8:30 AM
 Z Z O V

RES 219338

-- 1 PLM - 2 mm

REILAB Reservoirs Environmental, Inc.

5801 Logan St, Denver, CO 80216 • Ph: 303 964-1866 • Fax 303-477-4275 • Toll Free: 866 RES-ENV

Pager: 303-509-2098

INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

Company: Plynion Environmental	Company: Shannon Lucio
Address: 9100 W. Jewell Avenue, 200 Lakewood, CO 80232	Phone: 303.980.5200
	Fax: NA
	Cell/pager: NA
Project Number and/or P.O. #:	Final Data Deliverable Email Address: lucio@plynion-env.com

PLM / PCM / TEM	ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm (Rush PCM = 2hr, TEM = 6hr.)	CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm RUSH 24 hr. X 3-5 Day - 3day if possible RUSH 5 day 10 day 24 hr. 3 day 5 Day	MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm E.coli O157:H7, Coliforms, S.aureus 48 Hr. 3-5 Day RUSH 24 Hr 48 Hr 3 Day 5 Day	Mold	Special Instructions: PLM - please point count if less than or equal to 500 Client sample ID number (Sample ID's must be unique)	REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES:								
						ORGANICS - METH	METALS - Analyte(s)	PCB - Total, Respirable	TEM - AHERA Level II, 7402, ISO, +/-, Quant.		Semiquant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	MICROBIOLOGY	SAMPLER'S INITIALS OR OTHER NOTES	Sample Volume (L) / Area	Date Collected (m/d/yyyy)	Time Collected (h/mm a/p)
1	CK-1-1					X											785455	
2	PC-1 - Silver																	516
3	PC-2 - Red																	57
4	PC-3 - Brown																	58
5	PC-4 - Gray																	59
6	PC-5 - Rust - SMC																	60
7																		
8																		
9																		
10																		

Number of samples received: _____ (Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Shannon Lucio Date/Time: 8.23.11 2:20 carrier: hand

Laboratory Use Only: Katelyn Date/Time: 8.23.11 2:20

Sample Condition:	On Ice	Sealed	Attract
Temp. (F°)	Yes / No	Yes / No	Yes / No
Contact	Phone Email Fax	Date	Initials
Contact	Phone Email Fax	Date	Initials

August 27, 2011

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 219338-1
Project # / P.O. # None Given
Project Description: 6th Ave. Bridge over UPRR

Shannon Lucio
Pinyon Environmental Engineering
9100 West Jewell Ave. Suite 200
Lakewood CO 80232-6357

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 219338-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



Jeanne Spencer Orr
President



Analyst(s): _____

Paul D. LoScalzo	Wenlong Liu
Michael Scales	Adam Humphreys
Anita Grigg	Robert R. Workman Jr.
Bethany Nichols	Jennifer Jones
Anya Angst	

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Lab Code 101896-0
 TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 219338-1**
 Client: **Pinyon Environmental Engineering**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **6th Ave. Bridge over UPRR**
 Date Samples Received: **August 23, 2011**
 Analysis Type: **PLM, Short Report**
 Turnaround: **3 Day**
 Date Analyzed: **August 26, 2011**

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)		
CK-1-1	EM 785455	A	Light gray acrylic material w/ gray granular plaster and debris	100		ND	TR	100

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem-Act=Tremolite-Actinolite
 Note: Further analysis by TEM is recommended for organically bound material (i.e. floor tile) if PLM results are ≤1%.

Due Date: 8-26-11
 Due Time: 2:20 PM

RES 219338

1 PLM - 2 mm

REILAB Reservoirs Environmental, Inc.

5901 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax: 303-477-4275 • Toll Free: 866 RES1-ENV
 Pager: 303-509-2098

INVOICE TO: (IF DIFFERENT)

Company: Pinyon Environmental	Company: Shannon Lucio
Address: 9100 W. Jewell Avenue, 200	Phone: 303.980.5200
Lakewood, CO 80232	Fax: NA
	Cell/pager: NA
Project Number and/or P.O. #:	Final Data Deliverable Email Address: lucio@pinyon-env.com
Project Description/Location: 6th Ave bridge over upper	

CONTACT INFORMATION:

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm PLM / PCM / TEM RUSH (Same Day) PRIORITY (Next Day) STANDARD 3 day if possible (Rush PCM = 2hr, TEM = 6hr.)	VALID MATRIX CODES: Air = A Bulk = B Dust = D Paint = P Soil = S Wipe = W Swab = SW F = Food Drinking Water = DW Waste Water = WW O = Other **ASTM E1792 approved wipe media only**
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm Metal(s) / Dust RUSH 24 hr. 3-5 Day - 3 day if possible RCRA 8 / Metals & Welding RUSH 5 day 10 day Fume Scan / TCLP 24 hr. 3 day 5 Day	REQUESTED ANALYSIS: Microbiology: Aerobic Plate Count, Listeria, E. coli O157:H7, Salmonella, Coliforms, S. aureus, Y & M, Mold, Identification, Quantification Organic - METH METALS - Analyte(s) Lead RCRA 8, TCLP, Welding Fume, Metals Scan DUST - Total, Respirable PCM - 7400A, 7400B, OSHA Semi-quant, Micro-vac, ISO-Indirect Preps TEM - AHERA, Level II, 7402, ISO, +/-, Quant. PLM - Short report, Long report, Point Count

Client sample ID number	Special Instructions	PLM - Short report, Long report, Point Count	DUST - Total, Respirable	METALS - Analyte(s)	ORGANIC - METH	MICROBIOLOGY				Sample Volume (L) / Area	# Containers	Date Collected m/d/yyyy	Time Collected h:mm:ss a/p	EM Number (Laboratory Use Only)
						Aerobic Plate Count +/- or Quantification	E. coli +/- or Quantification	Coliforms +/- or Quantification	S. aureus +/- or Quantification					
1	CK-1-1	X												785455
2	PC-1 - Silver			X										56
3	PC-2 - Red			X										57
4	PC-3 - Brown			X										58
5	PC-4 - Gray			X										59
6	PC-5 - Rust - SMC													60
7														
8														
9														
10														

Number of samples received: _____ (Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Shannon Lucio Date: 8-23-11 Time: 2:20 Carrier: hand

Laboratory Use Only: Katelyn Date: 8-23-11 Time: 2:20

Results:

Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials
Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-22233-1
Client Project/Site: US 6 and BNSF

For:
Pinyon Env Eng Resources, Inc.
9100 West Jewell Avenue
Suite 200
Lakewood, Colorado 80232

Attn: Mr. Brian R. Partington



Authorized for release by:
11/14/2011 12:04:38 PM

Michelle Johnston
Project Manager I
michelle.johnston@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Job ID: 280-22233-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: Pinyon Env. Eng. Resources, Inc.
Project: US 6 & BNSF
Report Number: 280-22233-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/31/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8 C.

Sample TRIP BLANK was received at the laboratory, but was not listed on the associated chain-of-custody. The sample was logged for method 624, per containers received. The client was notified on November 1, 2011.

No other anomalies were encountered during sample receipt.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples B-1 (280-22233-1) and TRIP BLANK (280-22233-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The sample was analyzed on 11/03/2011.

The MS/MSD analysis associated with analytical batch 280-94686 was performed on a sample from another client and/or job. The MS/MSD exhibited spike compound recoveries outside the QC limits for 2-Chloroethyl vinyl ether. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample B-1 (280-22233-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA Method 625. The sample was prepared on 11/01/2011 and analyzed on 11/08/2011.

The internal clock on the instrument computer was updated for Mountain Standard Time after this auto-run was started. This update took place automatically at about 10:38 MST. Because of this, the extracts that were analyzed before this time have an "Injection Time" that is off by one hour. For example, the DFTPP injection has a time stamp of 10:39. This was actually 09:39 MST. Due to this, the 24 hour tune time for 625 would be 09:39 on November 9, 2011. All samples met the required tune time for the appropriate method, and the clock is correct moving forward.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 280-94202/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The method required MS/MSD analyses could not be performed for prep batch 280-94202, due to insufficient sample volume. Method

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Job ID: 280-22233-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICP)

Sample B-1 (280-22233-1) was analyzed for total recoverable metals (ICP) in accordance with EPA Method 200.7. The sample was prepared on 11/04/2011 and analyzed on 11/06/2011 and 11/07/2011.

The MS/MSD associated with prep batch 280-93842 was performed on sample B-1 (280-22233-1). The MS/MSD exhibited spike compound recoveries outside the QC control limits for Aluminum. In addition, the MS/SMD spike compound recoveries and RPD data could not be reliably calculated for Iron because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Serial dilution was performed on sample B-1 (280-22233-1) indicates that physical and chemical interferences are present for Aluminum in prep batch 280-93845.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICP/MS)

Sample B-1 (280-22233-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8. The sample was prepared on 11/06/2011 and analyzed on 11/07/2011.

Cadmium, Molybdenum and Zinc were detected in method blank MB 280-93846/1-A at levels that were less than one half the reporting limits; therefore, corrective action was deemed unnecessary. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The MS/MSD associated with prep batch 280-93846 was performed on sample B-1 (280-22233-1). The MS/MSD exhibited spike compound recoveries outside the control limits for several analytes. In addition, the MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for several analytes because the sample concentrations were greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED METALS (ICP)

Sample B-1 (280-22233-1) was analyzed for Metals (ICP) in accordance with EPA 200.7. The sample was prepared on 11/02/2011 and analyzed on 11/07/2011.

The MS/MSD associated with prep batch 280-94501 was performed on a sample from another client and/or job. The MS/SMD spike compound recoveries and RPD data could not be reliably calculated for Iron because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Job ID: 280-22233-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Refer to the QC report for details.

No other difficulties were encountered during the metals (ICP) analysis.

All quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED METALS (ICP/MS)

Sample B-1 (280-22233-1) was analyzed for potentially dissolved metals in accordance with EPA Method 200.8. The sample was prepared and analyzed on 11/04/2011.

Cadmium and Molybdenum were detected in method blank MB 280-93801/1-B at levels that were less than one half the reporting limits; therefore, corrective action was deemed unnecessary. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The MS/MSD associated with prep batch 280-93819 was performed on a sample from another client and/or job. The MS/MSD exhibited a spike compound recovery outside the control limits for Zinc. In addition, the MS/MSD spike compound recoveries and RPD data could not be reliably calculated for Barium and Manganese because the sample concentrations were greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY (CVAA)

Sample B-1 (280-22233-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The sample was prepared and analyzed on 11/04/2011.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED MERCURY (CVAA)

Sample B-1 (280-22233-1) was analyzed for mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 11/07/2011.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample B-1 (280-22233-1) was analyzed for total dissolved solids in accordance with SM20 2540C. The sample was analyzed on 11/04/2011.

Due to matrix interference, a reduced aliquot size was used for the analysis sample B-1 (280-22233-1). Reporting limits and method detection limits have been elevated accordingly. Also, a constant weight was not achieved after three drying cycles for sample B-1 (280-22233-1).

No other difficulties were encountered during the TDS analysis.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Job ID: 280-22233-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

TOTAL SUSPENDED SOLIDS

Sample B-1 (280-22233-1) was analyzed for total suspended solids in accordance with SM20 2540D. The sample was analyzed on 11/02/2011.

Due to matrix interference, a reduced aliquot size was used for the analysis sample B-1 (280-22233-1). Reporting limits and method detection limits have been elevated accordingly.

The Total Suspended Solids sample duplicate analysis data associated with analytical batch 280-94508 exhibited RPD data outside the QC limits. The acceptable LCS/LCSD analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample B-1 (280-22233-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The sample was analyzed on 11/01/2011.

The Hexavalent Chromium sample duplicate analysis data associated with analytical batch 280-94138 exhibited RPD data outside the QC limits. The acceptable LCS/LCSD analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the hex chrome analysis.

All quality control parameters were within the acceptance limits.

TRIVALENT CHROMIUM

Sample B-1 (280-22233-1) was analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The sample was analyzed on 11/09/2011.

No difficulties were encountered during the trivalent chromium analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Client Sample ID: B-1

Lab Sample ID: 280-22233-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.9	J	20	0.25	ug/L	1		624	Total/NA
Bis(2-ethylhexyl) phthalate	2.9	J B	9.5	0.53	ug/L	1		625	Total/NA
Aluminum	5700		100	18	ug/L	1		200.7 Rev 4.4	Total Recovera
Iron	4600		100	22	ug/L	1		200.7 Rev 4.4	Total Recovera
Aluminum	4300		100	18	ug/L	1		200.7 Rev 4.4	Potentially Diss
Iron	3100		100	22	ug/L	1		200.7 Rev 4.4	Potentially Diss
Antimony	0.25	J	2.0	0.16	ug/L	1		200.8	Total Recovera
Arsenic	55		5.0	0.50	ug/L	1		200.8	Total Recovera
Barium	1800		1.0	0.38	ug/L	1		200.8	Total Recovera
Beryllium	17		1.0	0.15	ug/L	1		200.8	Total Recovera
Cadmium	3.4	B	1.0	0.040	ug/L	1		200.8	Total Recovera
Chromium	170		3.0	0.88	ug/L	1		200.8	Total Recovera
Copper	280		2.0	0.20	ug/L	1		200.8	Total Recovera
Lead	250		1.0	0.10	ug/L	1		200.8	Total Recovera
Manganese	3400		2.0	0.51	ug/L	1		200.8	Total Recovera
Molybdenum	3.1	B	2.0	0.040	ug/L	1		200.8	Total Recovera
Nickel	130		2.0	0.28	ug/L	1		200.8	Total Recovera
Selenium	7.5		5.0	1.0	ug/L	1		200.8	Total Recovera
Silver	0.73	J	1.0	0.020	ug/L	1		200.8	Total Recovera
Thallium	3.1		1.0	0.066	ug/L	1		200.8	Total Recovera
Uranium	58		1.0	0.030	ug/L	1		200.8	Total Recovera
Zinc	1000	B	10	2.0	ug/L	1		200.8	Total Recovera
Arsenic	7.2		5.0	0.50	ug/L	1		200.8	Potentially Diss
Barium	1000		1.0	0.38	ug/L	1		200.8	Potentially Diss
Beryllium	6.7		1.0	0.15	ug/L	1		200.8	Potentially Diss
Cadmium	1.3	B	1.0	0.040	ug/L	1		200.8	Potentially Diss
Chromium	6.2		3.0	0.88	ug/L	1		200.8	Potentially Diss
Copper	60		2.0	0.20	ug/L	1		200.8	Potentially Diss
Lead	43		1.0	0.10	ug/L	1		200.8	Potentially Diss
Manganese	1800		2.0	0.51	ug/L	1		200.8	Potentially Diss
Molybdenum	2.5	B	2.0	0.040	ug/L	1		200.8	Potentially Diss
Nickel	19		2.0	0.28	ug/L	1		200.8	Potentially Diss
Selenium	3.7	J	5.0	1.0	ug/L	1		200.8	Potentially Diss
Uranium	16		1.0	0.030	ug/L	1		200.8	Potentially Diss
Zinc	260		10	2.0	ug/L	1		200.8	Potentially Diss
Mercury	0.17	J	0.20	0.027	ug/L	1		245.1	Total/NA
Cr (III)	0.17		0.020	0.020	mg/L	1		7196A	Total/NA
Total Dissolved Solids	720		200	94	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12000		250	69	mg/L	1		SM 2540D	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-22233-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J	20	1.9	ug/L	1		624	Total/NA

Method Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL DEN
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL DEN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL DEN
200.8	Metals (ICP/MS)	EPA	TAL DEN
245.1	Mercury (CVAA)	EPA	TAL DEN
7196A	Chromium, Hexavalent	SW846	TAL DEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-22233-1	B-1	Water	10/31/11 10:07	10/31/11 16:30
280-22233-2	TRIP BLANK	Water	10/31/11 10:07	10/31/11 16:30

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: B-1

Date Collected: 10/31/11 10:07

Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			11/03/11 23:03	1
Bromoform	ND		1.0	0.19	ug/L			11/03/11 23:03	1
Bromomethane	ND		2.0	0.21	ug/L			11/03/11 23:03	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			11/03/11 23:03	1
Chlorobenzene	ND		1.0	0.17	ug/L			11/03/11 23:03	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			11/03/11 23:03	1
Chloroethane	ND		2.0	0.41	ug/L			11/03/11 23:03	1
2-Chloroethyl vinyl ether	ND		3.0	0.74	ug/L			11/03/11 23:03	1
Chloroform	ND		1.0	0.16	ug/L			11/03/11 23:03	1
Chloromethane	ND		2.0	0.30	ug/L			11/03/11 23:03	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
1,2-Dichlorobenzene	ND		1.0	0.13	ug/L			11/03/11 23:03	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			11/03/11 23:03	1
1,1-Dichloroethane	ND		1.0	0.16	ug/L			11/03/11 23:03	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			11/03/11 23:03	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 23:03	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 23:03	1
1,1-Dichloroethene	ND		1.0	0.14	ug/L			11/03/11 23:03	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			11/03/11 23:03	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			11/03/11 23:03	1
Ethylbenzene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
Methylene Chloride	ND		5.0	0.32	ug/L			11/03/11 23:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/03/11 23:03	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/03/11 23:03	1
Toluene	ND		1.0	0.17	ug/L			11/03/11 23:03	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			11/03/11 23:03	1
1,1,2-Trichloroethane	ND		1.0	0.32	ug/L			11/03/11 23:03	1
Trichloroethene	ND		1.0	0.16	ug/L			11/03/11 23:03	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			11/03/11 23:03	1
Vinyl chloride	ND		1.0	0.17	ug/L			11/03/11 23:03	1
Xylenes, Total	ND		2.0	0.19	ug/L			11/03/11 23:03	1
Acetone	ND		20	1.9	ug/L			11/03/11 23:03	1
Acrolein	ND		100	2.8	ug/L			11/03/11 23:03	1
Acrylonitrile	ND		100	1.4	ug/L			11/03/11 23:03	1
2-Butanone (MEK)	ND		20	1.8	ug/L			11/03/11 23:03	1
Carbon disulfide	ND		5.0	0.45	ug/L			11/03/11 23:03	1
1,2-Dibromo-3-Chloropropane	ND		10	0.81	ug/L			11/03/11 23:03	1
Ethylene Dibromide	ND		5.0	0.18	ug/L			11/03/11 23:03	1
1,2-Dichloroethene, Total	ND		5.0	0.15	ug/L			11/03/11 23:03	1
1,3-Dichloropropene, Total	ND		5.0	0.16	ug/L			11/03/11 23:03	1
1,4-Dioxane	ND		250	71	ug/L			11/03/11 23:03	1
Hexane	ND		5.0	0.42	ug/L			11/03/11 23:03	1
2-Hexanone	ND		20	1.4	ug/L			11/03/11 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.49	ug/L			11/03/11 23:03	1
Methyl tert-butyl ether	2.9	J	20	0.25	ug/L			11/03/11 23:03	1
Styrene	ND		5.0	0.17	ug/L			11/03/11 23:03	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.17	ug/L			11/03/11 23:03	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/03/11 23:03	1
Dibromomethane	ND		5.0	0.17	ug/L			11/03/11 23:03	1
Vinyl acetate	ND		10	0.94	ug/L			11/03/11 23:03	1
m-Xylene & p-Xylene	ND		2.0	0.19	ug/L			11/03/11 23:03	1
o-Xylene	ND		1.0	0.19	ug/L			11/03/11 23:03	1
Total BTEX	ND		1.0	0.16	ug/L			11/03/11 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		11/03/11 23:03	1
1,2-Dichloroethane-d4 (Surr)	103		73 - 122		11/03/11 23:03	1
4-Bromofluorobenzene (Surr)	102		79 - 119		11/03/11 23:03	1

Client Sample ID: TRIP BLANK
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			11/03/11 23:27	1
Bromoform	ND		1.0	0.19	ug/L			11/03/11 23:27	1
Bromomethane	ND		2.0	0.21	ug/L			11/03/11 23:27	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			11/03/11 23:27	1
Chlorobenzene	ND		1.0	0.17	ug/L			11/03/11 23:27	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			11/03/11 23:27	1
Chloroethane	ND		2.0	0.41	ug/L			11/03/11 23:27	1
2-Chloroethyl vinyl ether	ND		3.0	0.74	ug/L			11/03/11 23:27	1
Chloroform	ND		1.0	0.16	ug/L			11/03/11 23:27	1
Chloromethane	ND		2.0	0.30	ug/L			11/03/11 23:27	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
1,2-Dichlorobenzene	ND		1.0	0.13	ug/L			11/03/11 23:27	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			11/03/11 23:27	1
1,1-Dichloroethane	ND		1.0	0.16	ug/L			11/03/11 23:27	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			11/03/11 23:27	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 23:27	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 23:27	1
1,1-Dichloroethene	ND		1.0	0.14	ug/L			11/03/11 23:27	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			11/03/11 23:27	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			11/03/11 23:27	1
Ethylbenzene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
Methylene Chloride	ND		5.0	0.32	ug/L			11/03/11 23:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/03/11 23:27	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/03/11 23:27	1
Toluene	ND		1.0	0.17	ug/L			11/03/11 23:27	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			11/03/11 23:27	1
1,1,2-Trichloroethane	ND		1.0	0.32	ug/L			11/03/11 23:27	1
Trichloroethene	ND		1.0	0.16	ug/L			11/03/11 23:27	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			11/03/11 23:27	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.17	ug/L			11/03/11 23:27	1
Xylenes, Total	ND		2.0	0.19	ug/L			11/03/11 23:27	1
Acetone	9.0	J	20	1.9	ug/L			11/03/11 23:27	1
Acrolein	ND		100	2.8	ug/L			11/03/11 23:27	1
Acrylonitrile	ND		100	1.4	ug/L			11/03/11 23:27	1
2-Butanone (MEK)	ND		20	1.8	ug/L			11/03/11 23:27	1
Carbon disulfide	ND		5.0	0.45	ug/L			11/03/11 23:27	1
1,2-Dibromo-3-Chloropropane	ND		10	0.81	ug/L			11/03/11 23:27	1
Ethylene Dibromide	ND		5.0	0.18	ug/L			11/03/11 23:27	1
1,2-Dichloroethene, Total	ND		5.0	0.15	ug/L			11/03/11 23:27	1
1,3-Dichloropropene, Total	ND		5.0	0.16	ug/L			11/03/11 23:27	1
1,4-Dioxane	ND		250	71	ug/L			11/03/11 23:27	1
Hexane	ND		5.0	0.42	ug/L			11/03/11 23:27	1
2-Hexanone	ND		20	1.4	ug/L			11/03/11 23:27	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.49	ug/L			11/03/11 23:27	1
Methyl tert-butyl ether	ND		20	0.25	ug/L			11/03/11 23:27	1
Styrene	ND		5.0	0.17	ug/L			11/03/11 23:27	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.17	ug/L			11/03/11 23:27	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/03/11 23:27	1
Dibromomethane	ND		5.0	0.17	ug/L			11/03/11 23:27	1
Vinyl acetate	ND		10	0.94	ug/L			11/03/11 23:27	1
m-Xylene & p-Xylene	ND		2.0	0.19	ug/L			11/03/11 23:27	1
o-Xylene	ND		1.0	0.19	ug/L			11/03/11 23:27	1
Total BTEX	ND		1.0	0.16	ug/L			11/03/11 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	87		80 - 120					11/03/11 23:27	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	85		73 - 122					11/03/11 23:27	1
<i>4-Bromofluorobenzene (Surr)</i>	80		79 - 119					11/03/11 23:27	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B-1

Date Collected: 10/31/11 10:07

Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.5	0.27	ug/L		11/01/11 12:25	11/08/11 22:00	1
Benzidine	ND		140	47	ug/L		11/01/11 12:25	11/08/11 22:00	1
1,2,4-Trichlorobenzene	ND		9.5	0.27	ug/L		11/01/11 12:25	11/08/11 22:00	1
Hexachlorobenzene	ND		9.5	0.63	ug/L		11/01/11 12:25	11/08/11 22:00	1
Bis(2-chloroethyl)ether	ND		9.5	0.39	ug/L		11/01/11 12:25	11/08/11 22:00	1
2-Chloronaphthalene	ND		9.5	0.25	ug/L		11/01/11 12:25	11/08/11 22:00	1
2-Chlorophenol	ND		9.5	1.9	ug/L		11/01/11 12:25	11/08/11 22:00	1
2-Methylphenol	ND		9.5	0.93	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,4,6-Trichlorophenol	ND		19	0.28	ug/L		11/01/11 12:25	11/08/11 22:00	1
3,3'-Dichlorobenzidine	ND		47	1.9	ug/L		11/01/11 12:25	11/08/11 22:00	1
Hexachloroethane	ND		9.5	2.0	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,4-Dichlorophenol	ND		9.5	0.61	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,4-Dimethylphenol	ND		9.5	0.55	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,4-Dinitrotoluene	ND		9.5	1.6	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		11/01/11 12:25	11/08/11 22:00	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.5	0.22	ug/L		11/01/11 12:25	11/08/11 22:00	1
Fluoranthene	ND		9.5	0.19	ug/L		11/01/11 12:25	11/08/11 22:00	1
4-Bromophenyl phenyl ether	ND		9.5	0.41	ug/L		11/01/11 12:25	11/08/11 22:00	1
4-Chlorophenyl phenyl ether	ND		9.5	1.6	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,2'-Oxybis(1-chloropropane)	ND		9.5	0.27	ug/L		11/01/11 12:25	11/08/11 22:00	1
Bis(2-chloroethoxy)methane	ND		9.5	0.92	ug/L		11/01/11 12:25	11/08/11 22:00	1
Hexachlorobutadiene	ND		9.5	3.1	ug/L		11/01/11 12:25	11/08/11 22:00	1
Hexachlorocyclopentadiene	ND		47	1.5	ug/L		11/01/11 12:25	11/08/11 22:00	1
Isophorone	ND		9.5	0.20	ug/L		11/01/11 12:25	11/08/11 22:00	1
Naphthalene	ND		9.5	0.28	ug/L		11/01/11 12:25	11/08/11 22:00	1
Nitrobenzene	ND		9.5	0.77	ug/L		11/01/11 12:25	11/08/11 22:00	1
2-Nitrophenol	ND		19	0.37	ug/L		11/01/11 12:25	11/08/11 22:00	1
2,4-Dinitrophenol	ND		57	9.5	ug/L		11/01/11 12:25	11/08/11 22:00	1
4-Nitrophenol	ND		47	1.2	ug/L		11/01/11 12:25	11/08/11 22:00	1
4,6-Dinitro-2-methylphenol	ND		57	3.8	ug/L		11/01/11 12:25	11/08/11 22:00	1
N-Nitrosodimethylamine	ND		9.5	0.28	ug/L		11/01/11 12:25	11/08/11 22:00	1
N-Nitrosodi-n-propylamine	ND		9.5	0.33	ug/L		11/01/11 12:25	11/08/11 22:00	1
N-Nitrosodiphenylamine	ND		9.5	0.42	ug/L		11/01/11 12:25	11/08/11 22:00	1
Pentachlorophenol	ND		57	19	ug/L		11/01/11 12:25	11/08/11 22:00	1
Phenol	ND		9.5	1.9	ug/L		11/01/11 12:25	11/08/11 22:00	1
Bis(2-ethylhexyl) phthalate	2.9	J B	9.5	0.53	ug/L		11/01/11 12:25	11/08/11 22:00	1
Butyl benzyl phthalate	ND		9.5	0.95	ug/L		11/01/11 12:25	11/08/11 22:00	1
Di-n-butyl phthalate	ND		9.5	1.1	ug/L		11/01/11 12:25	11/08/11 22:00	1
Di-n-octyl phthalate	ND		9.5	0.33	ug/L		11/01/11 12:25	11/08/11 22:00	1
Diethyl phthalate	ND		9.5	0.36	ug/L		11/01/11 12:25	11/08/11 22:00	1
Dimethyl phthalate	ND		9.5	0.20	ug/L		11/01/11 12:25	11/08/11 22:00	1
Benzo[a]anthracene	ND		9.5	0.33	ug/L		11/01/11 12:25	11/08/11 22:00	1
Benzo[a]pyrene	ND		9.5	0.29	ug/L		11/01/11 12:25	11/08/11 22:00	1
Benzo[b]fluoranthene	ND		9.5	0.50	ug/L		11/01/11 12:25	11/08/11 22:00	1
Benzo[k]fluoranthene	ND		9.5	0.44	ug/L		11/01/11 12:25	11/08/11 22:00	1
Anthracene	ND		9.5	0.40	ug/L		11/01/11 12:25	11/08/11 22:00	1
Acenaphthylene	ND		9.5	0.47	ug/L		11/01/11 12:25	11/08/11 22:00	1
Chrysene	ND		9.5	0.51	ug/L		11/01/11 12:25	11/08/11 22:00	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B-1

Date Collected: 10/31/11 10:07

Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		9.5	0.47	ug/L		11/01/11 12:25	11/08/11 22:00	1
Fluorene	ND		9.5	0.29	ug/L		11/01/11 12:25	11/08/11 22:00	1
Phenanthrene	ND		9.5	0.25	ug/L		11/01/11 12:25	11/08/11 22:00	1
Dibenz(a,h)anthracene	ND		9.5	0.48	ug/L		11/01/11 12:25	11/08/11 22:00	1
Indeno[1,2,3-cd]pyrene	ND		9.5	0.62	ug/L		11/01/11 12:25	11/08/11 22:00	1
Pyrene	ND		9.5	0.35	ug/L		11/01/11 12:25	11/08/11 22:00	1
3 & 4 Methylphenol	ND		9.5	0.76	ug/L		11/01/11 12:25	11/08/11 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		36 - 120				11/01/11 12:25	11/08/11 22:00	1
2-Fluorophenol	64		30 - 120				11/01/11 12:25	11/08/11 22:00	1
2,4,6-Tribromophenol	95		50 - 120				11/01/11 12:25	11/08/11 22:00	1
Nitrobenzene-d5	69		45 - 120				11/01/11 12:25	11/08/11 22:00	1
Phenol-d5	67		36 - 120				11/01/11 12:25	11/08/11 22:00	1
Terphenyl-d14	57		52 - 120				11/01/11 12:25	11/08/11 22:00	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5700		100	18	ug/L		11/04/11 14:00	11/07/11 16:37	1
Iron	4600		100	22	ug/L		11/04/11 14:00	11/06/11 17:16	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Potentially Dissolved

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4300		100	18	ug/L		11/02/11 05:30	11/07/11 23:39	1
Iron	3100		100	22	ug/L		11/02/11 05:30	11/07/11 23:39	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	2.0	0.16	ug/L		11/06/11 10:00	11/07/11 16:31	1
Arsenic	55		5.0	0.50	ug/L		11/06/11 10:00	11/07/11 16:31	1
Barium	1800		1.0	0.38	ug/L		11/06/11 10:00	11/07/11 16:31	1
Beryllium	17		1.0	0.15	ug/L		11/06/11 10:00	11/07/11 16:31	1
Cadmium	3.4	B	1.0	0.040	ug/L		11/06/11 10:00	11/07/11 16:31	1
Chromium	170		3.0	0.88	ug/L		11/06/11 10:00	11/07/11 16:31	1
Copper	280		2.0	0.20	ug/L		11/06/11 10:00	11/07/11 18:03	1
Lead	250		1.0	0.10	ug/L		11/06/11 10:00	11/07/11 16:31	1
Manganese	3400		2.0	0.51	ug/L		11/06/11 10:00	11/07/11 16:31	1
Molybdenum	3.1	B	2.0	0.040	ug/L		11/06/11 10:00	11/07/11 16:31	1
Nickel	130		2.0	0.28	ug/L		11/06/11 10:00	11/07/11 16:31	1
Selenium	7.5		5.0	1.0	ug/L		11/06/11 10:00	11/07/11 16:31	1
Silver	0.73	J	1.0	0.020	ug/L		11/06/11 10:00	11/07/11 16:31	1
Thallium	3.1		1.0	0.066	ug/L		11/06/11 10:00	11/07/11 16:31	1
Uranium	58		1.0	0.030	ug/L		11/06/11 10:00	11/07/11 16:31	1
Zinc	1000	B	10	2.0	ug/L		11/06/11 10:00	11/07/11 16:31	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
 Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: B-1
 Date Collected: 10/31/11 10:07
 Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.16	ug/L		11/04/11 05:30	11/04/11 16:13	1
Arsenic	7.2		5.0	0.50	ug/L		11/04/11 05:30	11/04/11 16:13	1
Barium	1000		1.0	0.38	ug/L		11/04/11 05:30	11/04/11 16:13	1
Beryllium	6.7		1.0	0.15	ug/L		11/04/11 05:30	11/04/11 16:13	1
Cadmium	1.3 B		1.0	0.040	ug/L		11/04/11 05:30	11/04/11 16:13	1
Chromium	6.2		3.0	0.88	ug/L		11/04/11 05:30	11/04/11 16:13	1
Copper	60		2.0	0.20	ug/L		11/04/11 05:30	11/04/11 16:13	1
Lead	43		1.0	0.10	ug/L		11/04/11 05:30	11/04/11 16:13	1
Manganese	1800		2.0	0.51	ug/L		11/04/11 05:30	11/04/11 16:13	1
Molybdenum	2.5 B		2.0	0.040	ug/L		11/04/11 05:30	11/04/11 16:13	1
Nickel	19		2.0	0.28	ug/L		11/04/11 05:30	11/04/11 16:13	1
Selenium	3.7 J		5.0	1.0	ug/L		11/04/11 05:30	11/04/11 16:13	1
Silver	ND		1.0	0.020	ug/L		11/04/11 05:30	11/04/11 16:13	1
Thallium	ND		1.0	0.066	ug/L		11/04/11 05:30	11/04/11 16:13	1
Uranium	16		1.0	0.030	ug/L		11/04/11 05:30	11/04/11 16:13	1
Zinc	260		10	2.0	ug/L		11/04/11 05:30	11/04/11 16:13	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 245.1 - Mercury (CVAA)

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	J	0.20	0.027	ug/L		11/04/11 12:00	11/04/11 15:50	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 245.1 - Mercury (CVAA) - Potentially Dissolved

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		11/07/11 11:20	11/07/11 14:49	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

General Chemistry

Client Sample ID: B-1
Date Collected: 10/31/11 10:07
Date Received: 10/31/11 16:30

Lab Sample ID: 280-22233-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/01/11 09:20	1
Cr (III)	0.17		0.020	0.020	mg/L			11/09/11 15:39	1
Total Dissolved Solids	720		200	94	mg/L			11/04/11 10:30	1
Total Suspended Solids	12000		250	69	mg/L			11/02/11 17:38	1

Surrogate Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (80-120)	12DCE (73-122)	BFB (79-119)
280-22233-1	B-1	108	103	102
280-22233-2	TRIP BLANK	87	85	80
280-22305-G-2 MS	Matrix Spike	97	89	79
280-22305-G-2 MSD	Matrix Spike Duplicate	107	99	88
LCS 280-94686/31	Lab Control Sample	98	87	80
MB 280-94686/32	Method Blank	98	93	91

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (36-120)	2FP (30-120)	TBP (50-120)	NBZ (45-120)	PHL (36-120)	TPH (52-120)
280-22233-1	B-1	61	64	95	69	67	57
LCS 280-94202/2-A	Lab Control Sample	70	69	94	77	74	90
LCSD 280-94202/3-A	Lab Control Sample Dup	65	69	94	72	74	93
MB 280-94202/1-A	Method Blank	65	69	83	76	74	102

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-94686/32

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			11/03/11 19:55	1
Bromoform	ND		1.0	0.19	ug/L			11/03/11 19:55	1
Bromomethane	ND		2.0	0.21	ug/L			11/03/11 19:55	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			11/03/11 19:55	1
Chlorobenzene	ND		1.0	0.17	ug/L			11/03/11 19:55	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			11/03/11 19:55	1
Chloroethane	ND		2.0	0.41	ug/L			11/03/11 19:55	1
2-Chloroethyl vinyl ether	ND		3.0	0.74	ug/L			11/03/11 19:55	1
Chloroform	ND		1.0	0.16	ug/L			11/03/11 19:55	1
Chloromethane	ND		2.0	0.30	ug/L			11/03/11 19:55	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
1,2-Dichlorobenzene	ND		1.0	0.13	ug/L			11/03/11 19:55	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			11/03/11 19:55	1
1,1-Dichloroethane	ND		1.0	0.16	ug/L			11/03/11 19:55	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			11/03/11 19:55	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 19:55	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/03/11 19:55	1
1,1-Dichloroethene	ND		1.0	0.14	ug/L			11/03/11 19:55	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			11/03/11 19:55	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			11/03/11 19:55	1
Ethylbenzene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
Methylene Chloride	ND		5.0	0.32	ug/L			11/03/11 19:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/03/11 19:55	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/03/11 19:55	1
Toluene	ND		1.0	0.17	ug/L			11/03/11 19:55	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			11/03/11 19:55	1
1,1,2-Trichloroethane	ND		1.0	0.32	ug/L			11/03/11 19:55	1
Trichloroethene	ND		1.0	0.16	ug/L			11/03/11 19:55	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			11/03/11 19:55	1
Vinyl chloride	ND		1.0	0.17	ug/L			11/03/11 19:55	1
Xylenes, Total	ND		2.0	0.19	ug/L			11/03/11 19:55	1
Acetone	ND		20	1.9	ug/L			11/03/11 19:55	1
Acrolein	ND		100	2.8	ug/L			11/03/11 19:55	1
Acrylonitrile	ND		100	1.4	ug/L			11/03/11 19:55	1
2-Butanone (MEK)	ND		20	1.8	ug/L			11/03/11 19:55	1
Carbon disulfide	ND		5.0	0.45	ug/L			11/03/11 19:55	1
1,2-Dibromo-3-Chloropropane	ND		10	0.81	ug/L			11/03/11 19:55	1
Ethylene Dibromide	ND		5.0	0.18	ug/L			11/03/11 19:55	1
1,2-Dichloroethene, Total	ND		5.0	0.15	ug/L			11/03/11 19:55	1
1,3-Dichloropropene, Total	ND		5.0	0.16	ug/L			11/03/11 19:55	1
1,4-Dioxane	ND		250	71	ug/L			11/03/11 19:55	1
Hexane	ND		5.0	0.42	ug/L			11/03/11 19:55	1
2-Hexanone	ND		20	1.4	ug/L			11/03/11 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.49	ug/L			11/03/11 19:55	1
Methyl tert-butyl ether	ND		20	0.25	ug/L			11/03/11 19:55	1
Styrene	ND		5.0	0.17	ug/L			11/03/11 19:55	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-94686/32

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.17	ug/L			11/03/11 19:55	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/03/11 19:55	1
Dibromomethane	ND		5.0	0.17	ug/L			11/03/11 19:55	1
Vinyl acetate	ND		10	0.94	ug/L			11/03/11 19:55	1
m-Xylene & p-Xylene	ND		2.0	0.19	ug/L			11/03/11 19:55	1
o-Xylene	ND		1.0	0.19	ug/L			11/03/11 19:55	1
Total BTEX	ND		1.0	0.16	ug/L			11/03/11 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		11/03/11 19:55	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 122		11/03/11 19:55	1
4-Bromofluorobenzene (Surr)	91		79 - 119		11/03/11 19:55	1

Lab Sample ID: LCS 280-94686/31

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	4.85		ug/L		97	37 - 151
Dichlorobromomethane	5.00	5.00		ug/L		100	35 - 155
Bromoform	5.00	4.86		ug/L		97	45 - 169
Carbon tetrachloride	5.00	4.52		ug/L		90	70 - 140
Chlorobenzene	5.00	4.96		ug/L		99	37 - 160
Chlorodibromomethane	5.00	4.99		ug/L		100	53 - 149
Chloroethane	5.00	3.95		ug/L		79	14 - 230
2-Chloroethyl vinyl ether	5.00	4.74		ug/L		95	10 - 305
Chloroform	5.00	4.85		ug/L		97	51 - 138
Chloromethane	5.00	3.62		ug/L		72	10 - 273
1,4-Dichlorobenzene	5.00	4.67		ug/L		93	18 - 190
1,3-Dichlorobenzene	5.00	4.70		ug/L		94	59 - 156
1,2-Dichlorobenzene	5.00	4.53		ug/L		91	18 - 190
1,1-Dichloroethane	5.00	4.69		ug/L		94	59 - 155
1,2-Dichloroethane	5.00	4.99		ug/L		100	49 - 155
trans-1,2-Dichloroethene	5.00	4.67		ug/L		93	54 - 156
1,1-Dichloroethene	5.00	4.67		ug/L		93	10 - 234
1,2-Dichloropropane	5.00	4.84		ug/L		97	10 - 210
cis-1,3-Dichloropropene	5.00	5.01		ug/L		100	10 - 227
trans-1,3-Dichloropropene	5.00	4.90		ug/L		98	17 - 183
Ethylbenzene	5.00	4.69		ug/L		94	37 - 162
Methylene Chloride	5.00	4.82	J	ug/L		96	10 - 221
1,1,1,2-Tetrachloroethane	5.00	4.87		ug/L		97	46 - 157
Tetrachloroethene	5.00	4.67		ug/L		93	64 - 148
Toluene	5.00	4.58		ug/L		92	47 - 150
1,1,1-Trichloroethane	5.00	4.45		ug/L		89	52 - 162
1,1,2-Trichloroethane	5.00	4.83		ug/L		97	52 - 150
Trichloroethene	5.00	4.63		ug/L		93	71 - 157
Trichlorofluoromethane	5.00	3.41		ug/L		68	17 - 181
Vinyl chloride	5.00	3.55		ug/L		71	10 - 251
Xylenes, Total	15.0	13.9		ug/L		93	50 - 150

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-94686/31

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	18.4	J	ug/L		92	42 - 170
1,3-Dichloropropene, Total	10.0	9.91		ug/L		99	17 - 183
Hexane	4.88	6.49		ug/L		133	69 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	87		73 - 122
4-Bromofluorobenzene (Surr)	80		79 - 119

Lab Sample ID: 280-22305-G-2 MS

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		5.00	5.29		ug/L		106	37 - 151
Dichlorobromomethane	ND		5.00	5.48		ug/L		110	35 - 155
Bromoform	ND		5.00	5.28		ug/L		106	45 - 169
Carbon tetrachloride	ND		5.00	4.60		ug/L		92	70 - 140
Chlorobenzene	ND		5.00	5.21		ug/L		104	37 - 160
Chlorodibromomethane	ND		5.00	5.48		ug/L		110	53 - 149
Chloroethane	ND		5.00	4.14		ug/L		83	14 - 230
2-Chloroethyl vinyl ether	ND		5.00	ND	F	ug/L		0	10 - 305
Chloroform	ND		5.00	5.29		ug/L		106	51 - 138
Chloromethane	ND		5.00	3.76		ug/L		75	10 - 273
1,4-Dichlorobenzene	ND		5.00	5.17		ug/L		103	18 - 190
1,3-Dichlorobenzene	ND		5.00	4.69		ug/L		94	59 - 156
1,2-Dichlorobenzene	ND		5.00	5.02		ug/L		100	18 - 190
1,1-Dichloroethane	ND		5.00	5.09		ug/L		102	59 - 155
1,2-Dichloroethane	ND		5.00	5.49		ug/L		110	49 - 155
trans-1,2-Dichloroethene	ND		5.00	4.79		ug/L		96	54 - 156
1,1-Dichloroethene	ND		5.00	4.93		ug/L		99	10 - 234
1,2-Dichloropropane	ND		5.00	5.27		ug/L		105	10 - 210
cis-1,3-Dichloropropene	ND		5.00	5.27		ug/L		105	10 - 227
trans-1,3-Dichloropropene	ND		5.00	5.26		ug/L		105	17 - 183
Ethylbenzene	ND		5.00	4.81		ug/L		96	37 - 162
Methylene Chloride	ND		5.00	4.79	J	ug/L		96	10 - 221
1,1,1,2-Tetrachloroethane	ND		5.00	5.34		ug/L		107	46 - 157
Tetrachloroethene	ND		5.00	4.68		ug/L		94	64 - 148
Toluene	ND		5.00	4.84		ug/L		97	47 - 150
1,1,1-Trichloroethane	ND		5.00	4.58		ug/L		92	52 - 162
1,1,2-Trichloroethane	ND		5.00	5.39		ug/L		108	52 - 150
Trichloroethene	ND		5.00	4.83		ug/L		97	71 - 157
Trichlorofluoromethane	ND		5.00	3.45		ug/L		69	17 - 181
Vinyl chloride	ND		5.00	3.67		ug/L		73	10 - 251
Xylenes, Total	ND		15.0	14.5		ug/L		97	50 - 150
Acetone	ND		20.0	18.2	J	ug/L		91	42 - 170
1,3-Dichloropropene, Total	ND		10.0	10.5		ug/L		105	17 - 183
Hexane	ND		4.88	5.68		ug/L		116	69 - 143

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-22305-G-2 MS

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Matrix Spike

Prep Type: Total/NA

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	97		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	89		73 - 122
<i>4-Bromofluorobenzene (Surr)</i>	79		79 - 119

Lab Sample ID: 280-22305-G-2 MSD

Matrix: Water

Analysis Batch: 94686

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Benzene	ND		5.00	5.92		ug/L		118	37 - 151	11	30
Dichlorobromomethane	ND		5.00	6.18		ug/L		124	35 - 155	12	30
Bromoform	ND		5.00	5.92		ug/L		118	45 - 169	11	30
Carbon tetrachloride	ND		5.00	5.19		ug/L		104	70 - 140	12	30
Chlorobenzene	ND		5.00	5.87		ug/L		117	37 - 160	12	30
Chlorodibromomethane	ND		5.00	6.25		ug/L		125	53 - 149	13	30
Chloroethane	ND		5.00	4.80		ug/L		96	14 - 230	15	30
2-Chloroethyl vinyl ether	ND		5.00	ND	F	ug/L		0	10 - 305	NC	45
Chloroform	ND		5.00	5.96		ug/L		119	51 - 138	12	30
Chloromethane	ND		5.00	4.41		ug/L		88	10 - 273	16	30
1,4-Dichlorobenzene	ND		5.00	5.45		ug/L		109	18 - 190	5	30
1,3-Dichlorobenzene	ND		5.00	5.63		ug/L		113	59 - 156	18	30
1,2-Dichlorobenzene	ND		5.00	5.54		ug/L		111	18 - 190	10	30
1,1-Dichloroethane	ND		5.00	5.63		ug/L		113	59 - 155	10	30
1,2-Dichloroethane	ND		5.00	6.23		ug/L		125	49 - 155	13	30
trans-1,2-Dichloroethene	ND		5.00	5.52		ug/L		110	54 - 156	14	30
1,1-Dichloroethene	ND		5.00	5.53		ug/L		111	10 - 234	11	30
1,2-Dichloropropane	ND		5.00	6.05		ug/L		121	10 - 210	14	30
cis-1,3-Dichloropropene	ND		5.00	6.07		ug/L		121	10 - 227	14	30
trans-1,3-Dichloropropene	ND		5.00	5.97		ug/L		119	17 - 183	13	30
Ethylbenzene	ND		5.00	5.44		ug/L		109	37 - 162	12	30
Methylene Chloride	ND		5.00	5.47		ug/L		109	10 - 221	13	30
1,1,2,2-Tetrachloroethane	ND		5.00	6.05		ug/L		121	46 - 157	12	30
Tetrachloroethene	ND		5.00	5.17		ug/L		103	64 - 148	10	30
Toluene	ND		5.00	5.46		ug/L		109	47 - 150	12	30
1,1,1-Trichloroethane	ND		5.00	5.14		ug/L		103	52 - 162	12	30
1,1,2-Trichloroethane	ND		5.00	5.99		ug/L		120	52 - 150	11	30
Trichloroethene	ND		5.00	5.41		ug/L		108	71 - 157	11	30
Trichlorofluoromethane	ND		5.00	3.97		ug/L		79	17 - 181	14	30
Vinyl chloride	ND		5.00	4.22		ug/L		84	10 - 251	14	30
Xylenes, Total	ND		15.0	15.8		ug/L		105	50 - 150	9	30
Acetone	ND		20.0	20.9		ug/L		104	42 - 170	14	20
1,3-Dichloropropene, Total	ND		10.0	12.0		ug/L		120	17 - 183	13	30
Hexane	ND		4.88	6.12		ug/L		125	69 - 143	7	20

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	107		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		73 - 122
<i>4-Bromofluorobenzene (Surr)</i>	88		79 - 119

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-94202/1-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.28	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzidine	ND		150	50	ug/L		11/01/11 12:25	11/08/11 21:04	1
1,2,4-Trichlorobenzene	ND		10	0.28	ug/L		11/01/11 12:25	11/08/11 21:04	1
Hexachlorobenzene	ND		10	0.66	ug/L		11/01/11 12:25	11/08/11 21:04	1
Bis(2-chloroethyl)ether	ND		10	0.41	ug/L		11/01/11 12:25	11/08/11 21:04	1
2-Chloronaphthalene	ND		10	0.26	ug/L		11/01/11 12:25	11/08/11 21:04	1
2-Chlorophenol	ND		10	2.0	ug/L		11/01/11 12:25	11/08/11 21:04	1
2-Methylphenol	ND		10	0.98	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,4,6-Trichlorophenol	ND		20	0.29	ug/L		11/01/11 12:25	11/08/11 21:04	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		11/01/11 12:25	11/08/11 21:04	1
Hexachloroethane	ND		10	2.1	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		11/01/11 12:25	11/08/11 21:04	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.23	ug/L		11/01/11 12:25	11/08/11 21:04	1
Fluoranthene	ND		10	0.20	ug/L		11/01/11 12:25	11/08/11 21:04	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		11/01/11 12:25	11/08/11 21:04	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,2'-Oxybis(1-chloropropane)	ND		10	0.28	ug/L		11/01/11 12:25	11/08/11 21:04	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		11/01/11 12:25	11/08/11 21:04	1
Hexachlorobutadiene	ND		10	3.3	ug/L		11/01/11 12:25	11/08/11 21:04	1
Hexachlorocyclopentadiene	ND		50	1.5	ug/L		11/01/11 12:25	11/08/11 21:04	1
Isophorone	ND		10	0.21	ug/L		11/01/11 12:25	11/08/11 21:04	1
Naphthalene	ND		10	0.29	ug/L		11/01/11 12:25	11/08/11 21:04	1
Nitrobenzene	ND		10	0.81	ug/L		11/01/11 12:25	11/08/11 21:04	1
2-Nitrophenol	ND		20	0.39	ug/L		11/01/11 12:25	11/08/11 21:04	1
2,4-Dinitrophenol	ND		60	10	ug/L		11/01/11 12:25	11/08/11 21:04	1
4-Nitrophenol	ND		50	1.2	ug/L		11/01/11 12:25	11/08/11 21:04	1
4,6-Dinitro-2-methylphenol	ND		60	4.0	ug/L		11/01/11 12:25	11/08/11 21:04	1
N-Nitrosodimethylamine	ND		10	0.29	ug/L		11/01/11 12:25	11/08/11 21:04	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		11/01/11 12:25	11/08/11 21:04	1
N-Nitrosodiphenylamine	ND		10	0.44	ug/L		11/01/11 12:25	11/08/11 21:04	1
Pentachlorophenol	ND		60	20	ug/L		11/01/11 12:25	11/08/11 21:04	1
Phenol	ND		10	2.0	ug/L		11/01/11 12:25	11/08/11 21:04	1
Bis(2-ethylhexyl) phthalate	2.69	J	10	0.56	ug/L		11/01/11 12:25	11/08/11 21:04	1
Butyl benzyl phthalate	ND		10	1.0	ug/L		11/01/11 12:25	11/08/11 21:04	1
Di-n-butyl phthalate	ND		10	1.2	ug/L		11/01/11 12:25	11/08/11 21:04	1
Di-n-octyl phthalate	ND		10	0.35	ug/L		11/01/11 12:25	11/08/11 21:04	1
Diethyl phthalate	ND		10	0.38	ug/L		11/01/11 12:25	11/08/11 21:04	1
Dimethyl phthalate	ND		10	0.21	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzo[a]anthracene	ND		10	0.35	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzo[a]pyrene	ND		10	0.31	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzo[b]fluoranthene	ND		10	0.53	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzo[k]fluoranthene	ND		10	0.46	ug/L		11/01/11 12:25	11/08/11 21:04	1
Anthracene	ND		10	0.42	ug/L		11/01/11 12:25	11/08/11 21:04	1
Acenaphthylene	ND		10	0.49	ug/L		11/01/11 12:25	11/08/11 21:04	1
Chrysene	ND		10	0.54	ug/L		11/01/11 12:25	11/08/11 21:04	1
Benzo[g,h,i]perylene	ND		10	0.50	ug/L		11/01/11 12:25	11/08/11 21:04	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-94202/1-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		10	0.31	ug/L		11/01/11 12:25	11/08/11 21:04	1
Phenanthrene	ND		10	0.26	ug/L		11/01/11 12:25	11/08/11 21:04	1
Dibenz(a,h)anthracene	ND		10	0.51	ug/L		11/01/11 12:25	11/08/11 21:04	1
Indeno[1,2,3-cd]pyrene	ND		10	0.65	ug/L		11/01/11 12:25	11/08/11 21:04	1
Pyrene	ND		10	0.37	ug/L		11/01/11 12:25	11/08/11 21:04	1
3 & 4 Methylphenol	ND		10	0.80	ug/L		11/01/11 12:25	11/08/11 21:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		36 - 120	11/01/11 12:25	11/08/11 21:04	1
2-Fluorophenol	69		30 - 120	11/01/11 12:25	11/08/11 21:04	1
2,4,6-Tribromophenol	83		50 - 120	11/01/11 12:25	11/08/11 21:04	1
Nitrobenzene-d5	76		45 - 120	11/01/11 12:25	11/08/11 21:04	1
Phenol-d5	74		36 - 120	11/01/11 12:25	11/08/11 21:04	1
Terphenyl-d14	102		52 - 120	11/01/11 12:25	11/08/11 21:04	1

Lab Sample ID: LCS 280-94202/2-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	80.0	61.8		ug/L		77	47 - 120
Benzidine	200	146	J	ug/L		73	10 - 218
1,2,4-Trichlorobenzene	80.0	50.5		ug/L		63	44 - 120
Hexachlorobenzene	80.0	70.4		ug/L		88	53 - 120
Bis(2-chloroethyl)ether	80.0	54.7		ug/L		68	35 - 120
2-Chloronaphthalene	80.0	58.6		ug/L		73	60 - 118
2-Chlorophenol	80.0	57.5		ug/L		72	34 - 120
2-Methylphenol	80.0	54.3		ug/L		68	38 - 120
2,4,6-Trichlorophenol	80.0	67.4		ug/L		84	51 - 120
3,3'-Dichlorobenzidine	80.0	54.0		ug/L		68	18 - 120
Hexachloroethane	80.0	43.8		ug/L		55	40 - 113
2,4-Dichlorophenol	80.0	62.2		ug/L		78	46 - 120
2,4-Dimethylphenol	80.0	53.1		ug/L		66	44 - 119
2,4-Dinitrotoluene	80.0	74.9		ug/L		94	57 - 120
2,6-Dinitrotoluene	80.0	71.6		ug/L		90	56 - 120
Fluoranthene	80.0	74.6		ug/L		93	58 - 120
4-Bromophenyl phenyl ether	80.0	69.7		ug/L		87	53 - 120
4-Chlorophenyl phenyl ether	80.0	68.2		ug/L		85	51 - 120
2,2'-Oxybis(1-chloropropane)	80.0	59.0		ug/L		74	37 - 120
Bis(2-chloroethoxy)methane	80.0	60.3		ug/L		75	50 - 120
Hexachlorobutadiene	80.0	47.8		ug/L		60	27 - 116
Hexachlorocyclopentadiene	80.0	19.7	J	ug/L		25	10 - 120
Isophorone	80.0	64.7		ug/L		81	50 - 120
Naphthalene	80.0	55.2		ug/L		69	37 - 120
Nitrobenzene	80.0	61.1		ug/L		76	46 - 120
2-Nitrophenol	80.0	62.9		ug/L		79	47 - 120
2,4-Dinitrophenol	80.0	73.9		ug/L		92	20 - 121
4-Nitrophenol	80.0	73.1		ug/L		91	53 - 120
4,6-Dinitro-2-methylphenol	80.0	76.5		ug/L		96	40 - 120

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-94202/2-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
N-Nitrosodimethylamine	80.0	58.7		ug/L		73	37 - 120	
N-Nitrosodi-n-propylamine	80.0	63.7		ug/L		80	50 - 120	
N-Nitrosodiphenylamine	68.3	53.4		ug/L		78	46 - 203	
Pentachlorophenol	80.0	65.0		ug/L		81	46 - 120	
Phenol	80.0	60.1		ug/L		75	37 - 112	
Bis(2-ethylhexyl) phthalate	80.0	71.9		ug/L		90	56 - 120	
Butyl benzyl phthalate	80.0	72.3		ug/L		90	53 - 120	
Di-n-butyl phthalate	80.0	75.6		ug/L		94	57 - 118	
Di-n-octyl phthalate	80.0	74.9		ug/L		94	56 - 120	
Diethyl phthalate	80.0	71.6		ug/L		90	59 - 114	
Dimethyl phthalate	80.0	71.2		ug/L		89	58 - 112	
Benzo[a]anthracene	80.0	69.9		ug/L		87	54 - 120	
Benzo[a]pyrene	80.0	58.3		ug/L		73	39 - 120	
Benzo[b]fluoranthene	80.0	67.9		ug/L		85	51 - 120	
Benzo[k]fluoranthene	80.0	61.6		ug/L		77	49 - 120	
Anthracene	80.0	70.2		ug/L		88	52 - 120	
Acenaphthylene	80.0	65.5		ug/L		82	33 - 120	
Chrysene	80.0	70.8		ug/L		89	51 - 120	
Benzo[g,h,i]perylene	80.0	72.8		ug/L		91	48 - 120	
Fluorene	80.0	66.7		ug/L		83	59 - 120	
Phenanthrene	80.0	70.5		ug/L		88	54 - 120	
Dibenz(a,h)anthracene	80.0	69.0		ug/L		86	45 - 120	
Indeno[1,2,3-cd]pyrene	80.0	73.1		ug/L		91	50 - 120	
Pyrene	80.0	69.2		ug/L		86	55 - 115	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	70		36 - 120
2-Fluorophenol	69		30 - 120
2,4,6-Tribromophenol	94		50 - 120
Nitrobenzene-d5	77		45 - 120
Phenol-d5	74		36 - 120
Terphenyl-d14	90		52 - 120

Lab Sample ID: LCSD 280-94202/3-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Acenaphthene	80.0	58.1		ug/L		73	47 - 120	6	30	
Benzidine	200	149	J	ug/L		75	10 - 218	3	50	
1,2,4-Trichlorobenzene	80.0	45.1		ug/L		56	44 - 120	11	35	
Hexachlorobenzene	80.0	68.2		ug/L		85	53 - 120	3	30	
Bis(2-chloroethyl)ether	80.0	51.1		ug/L		64	35 - 120	7	30	
2-Chloronaphthalene	80.0	54.7		ug/L		68	60 - 118	7	30	
2-Chlorophenol	80.0	56.1		ug/L		70	34 - 120	2	30	
2-Methylphenol	80.0	53.7		ug/L		67	38 - 120	1	35	
2,4,6-Trichlorophenol	80.0	67.5		ug/L		84	51 - 120	0	30	
3,3'-Dichlorobenzidine	80.0	54.8		ug/L		69	18 - 120	2	50	
Hexachloroethane	80.0	40.1		ug/L		50	40 - 113	9	52	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-94202/3-A

Matrix: Water

Analysis Batch: 95595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2,4-Dichlorophenol	80.0	59.0		ug/L		74	46 - 120	5	30	
2,4-Dimethylphenol	80.0	49.9		ug/L		62	44 - 119	6	35	
2,4-Dinitrotoluene	80.0	76.4		ug/L		95	57 - 120	2	35	
2,6-Dinitrotoluene	80.0	74.7		ug/L		93	56 - 120	4	30	
Fluoranthene	80.0	76.5		ug/L		96	58 - 120	2	30	
4-Bromophenyl phenyl ether	80.0	68.0		ug/L		85	53 - 120	2	34	
4-Chlorophenyl phenyl ether	80.0	65.6		ug/L		82	51 - 120	4	30	
2,2'-Oxybis(1-chloropropane)	80.0	56.4		ug/L		71	37 - 120	4	30	
Bis(2-chloroethoxy)methane	80.0	55.8		ug/L		70	50 - 120	8	30	
Hexachlorobutadiene	80.0	41.5		ug/L		52	27 - 116	14	41	
Hexachlorocyclopentadiene	80.0	12.6	J	ug/L		16	10 - 120	44	82	
Isophorone	80.0	59.5		ug/L		74	50 - 120	8	30	
Naphthalene	80.0	48.9		ug/L		61	37 - 120	12	30	
Nitrobenzene	80.0	58.0		ug/L		73	46 - 120	5	30	
2-Nitrophenol	80.0	60.9		ug/L		76	47 - 120	3	30	
2,4-Dinitrophenol	80.0	75.6		ug/L		94	20 - 121	2	61	
4-Nitrophenol	80.0	76.8		ug/L		96	53 - 120	5	42	
4,6-Dinitro-2-methylphenol	80.0	77.7		ug/L		97	40 - 120	2	55	
N-Nitrosodimethylamine	80.0	59.4		ug/L		74	37 - 120	1	30	
N-Nitrosodi-n-propylamine	80.0	61.2		ug/L		77	50 - 120	4	30	
N-Nitrosodiphenylamine	68.3	53.5		ug/L		78	46 - 203	0	50	
Pentachlorophenol	80.0	68.5		ug/L		86	46 - 120	5	30	
Phenol	80.0	60.2		ug/L		75	37 - 112	0	30	
Bis(2-ethylhexyl) phthalate	80.0	73.7		ug/L		92	56 - 120	2	30	
Butyl benzyl phthalate	80.0	75.4		ug/L		94	53 - 120	4	30	
Di-n-butyl phthalate	80.0	77.0		ug/L		96	57 - 118	2	30	
Di-n-octyl phthalate	80.0	77.4		ug/L		97	56 - 120	3	30	
Diethyl phthalate	80.0	75.1		ug/L		94	59 - 114	5	30	
Dimethyl phthalate	80.0	73.6		ug/L		92	58 - 112	3	30	
Benzo[a]anthracene	80.0	73.7		ug/L		92	54 - 120	5	30	
Benzo[a]pyrene	80.0	58.3		ug/L		73	39 - 120	0	73	
Benzo[b]fluoranthene	80.0	71.1		ug/L		89	51 - 120	5	90	
Benzo[k]fluoranthene	80.0	63.1		ug/L		79	49 - 120	2	50	
Anthracene	80.0	71.9		ug/L		90	52 - 120	2	30	
Acenaphthylene	80.0	62.1		ug/L		78	33 - 120	5	30	
Chrysene	80.0	73.5		ug/L		92	51 - 120	4	30	
Benzo[g,h,i]perylene	80.0	73.9		ug/L		92	48 - 120	2	64	
Fluorene	80.0	66.3		ug/L		83	59 - 120	1	30	
Phenanthrene	80.0	71.7		ug/L		90	54 - 120	2	30	
Dibenz(a,h)anthracene	80.0	70.4		ug/L		88	45 - 120	2	78	
Indeno[1,2,3-cd]pyrene	80.0	74.6		ug/L		93	50 - 120	2	73	
Pyrene	80.0	71.1		ug/L		89	55 - 115	3	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	65		36 - 120
2-Fluorophenol	69		30 - 120
2,4,6-Tribromophenol	94		50 - 120
Nitrobenzene-d5	72		45 - 120
Phenol-d5	74		36 - 120

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-94202/3-A
Matrix: Water
Analysis Batch: 95595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94202

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	93		52 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-93845/1-A
Matrix: Water
Analysis Batch: 95053

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	22	ug/L		11/04/11 14:00	11/06/11 16:35	1

Lab Sample ID: MB 280-93845/1-A
Matrix: Water
Analysis Batch: 95238

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	18	ug/L		11/04/11 14:00	11/07/11 16:06	1

Lab Sample ID: LCS 280-93845/2-A
Matrix: Water
Analysis Batch: 95053

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	954		ug/L		95	89 - 115

Lab Sample ID: LCS 280-93845/2-A
Matrix: Water
Analysis Batch: 95238

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1990		ug/L		100	87 - 111

Lab Sample ID: 280-22233-1 MS
Matrix: Water
Analysis Batch: 95053

Client Sample ID: B-1
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	4600		1000	5440	4	ug/L		88	89 - 115

Lab Sample ID: 280-22233-1 MS
Matrix: Water
Analysis Batch: 95238

Client Sample ID: B-1
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5700		2000	8070	F	ug/L		118	87 - 111

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-22233-1 MSD
Matrix: Water
Analysis Batch: 95053

Client Sample ID: B-1
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	4600		1000	6560	4	ug/L		200	89 - 115	19	20

Lab Sample ID: 280-22233-1 MSD
Matrix: Water
Analysis Batch: 95238

Client Sample ID: B-1
Prep Type: Total Recoverable
Prep Batch: 93845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5700		2000	9710	F	ug/L		201	87 - 111	19	20

Lab Sample ID: MB 280-94381/1-C
Matrix: Water
Analysis Batch: 95241

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 94501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	18	ug/L		11/02/11 05:30	11/07/11 23:22	1
Iron	ND		100	22	ug/L		11/02/11 05:30	11/07/11 23:22	1

Lab Sample ID: LCS 280-94381/2-C
Matrix: Water
Analysis Batch: 95241

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 94501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2030		ug/L		102	87 - 111
Iron	1000	1030		ug/L		103	89 - 115

Lab Sample ID: 280-22255-E-2-L MS
Matrix: Water
Analysis Batch: 95241

Client Sample ID: Matrix Spike
Prep Type: Potentially Dissolved
Prep Batch: 94501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5200		2000	7360		ug/L		109	87 - 111
Iron	7300		1000	8280	4	ug/L		97	89 - 115

Lab Sample ID: 280-22255-E-2-M MSD
Matrix: Water
Analysis Batch: 95241

Client Sample ID: Matrix Spike Duplicate
Prep Type: Potentially Dissolved
Prep Batch: 94501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5200		2000	7330		ug/L		107	87 - 111	0	20
Iron	7300		1000	8200	4	ug/L		89	89 - 115	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-93846/1-A
Matrix: Water
Analysis Batch: 95235

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 93846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.16	ug/L		11/06/11 10:00	11/07/11 15:59	1
Arsenic	ND		5.0	0.50	ug/L		11/06/11 10:00	11/07/11 15:59	1
Barium	ND		1.0	0.38	ug/L		11/06/11 10:00	11/07/11 15:59	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-93846/1-A
Matrix: Water
Analysis Batch: 95235

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 93846

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	ND		1.0	0.15	ug/L		11/06/11 10:00	11/07/11 15:59	1
Cadmium	0.0480	J	1.0	0.040	ug/L		11/06/11 10:00	11/07/11 15:59	1
Chromium	ND		3.0	0.88	ug/L		11/06/11 10:00	11/07/11 15:59	1
Copper	ND		2.0	0.20	ug/L		11/06/11 10:00	11/07/11 15:59	1
Lead	ND		1.0	0.10	ug/L		11/06/11 10:00	11/07/11 15:59	1
Manganese	ND		2.0	0.51	ug/L		11/06/11 10:00	11/07/11 15:59	1
Molybdenum	0.0490	J	2.0	0.040	ug/L		11/06/11 10:00	11/07/11 15:59	1
Nickel	ND		2.0	0.28	ug/L		11/06/11 10:00	11/07/11 15:59	1
Selenium	ND		5.0	1.0	ug/L		11/06/11 10:00	11/07/11 15:59	1
Silver	ND		1.0	0.020	ug/L		11/06/11 10:00	11/07/11 15:59	1
Thallium	ND		1.0	0.066	ug/L		11/06/11 10:00	11/07/11 15:59	1
Uranium	ND		1.0	0.030	ug/L		11/06/11 10:00	11/07/11 15:59	1
Zinc	2.32	J	10	2.0	ug/L		11/06/11 10:00	11/07/11 15:59	1

Lab Sample ID: LCS 280-93846/2-A
Matrix: Water
Analysis Batch: 95235

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 93846

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	40.0	43.8		ug/L		109	85 - 115
Arsenic	40.0	39.8		ug/L		100	89 - 111
Barium	40.0	44.3		ug/L		111	89 - 115
Beryllium	40.0	39.4		ug/L		98	85 - 115
Cadmium	40.0	43.1		ug/L		108	89 - 111
Chromium	40.0	41.0		ug/L		102	86 - 115
Copper	40.0	38.2		ug/L		96	90 - 115
Lead	40.0	43.3		ug/L		108	88 - 115
Manganese	40.0	41.9		ug/L		105	87 - 115
Molybdenum	40.0	43.2		ug/L		108	89 - 112
Nickel	40.0	42.6		ug/L		106	86 - 115
Selenium	40.0	43.0		ug/L		107	85 - 114
Silver	40.0	42.3		ug/L		106	90 - 114
Thallium	40.0	42.1		ug/L		105	86 - 115
Uranium	40.0	40.8		ug/L		102	85 - 115
Zinc	40.0	41.2		ug/L		103	88 - 115

Lab Sample ID: 280-22233-1 MS
Matrix: Water
Analysis Batch: 95235

Client Sample ID: B-1
Prep Type: Total Recoverable
Prep Batch: 93846

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.25	J	40.0	1.96	J F	ug/L		4	85 - 115
Arsenic	55		40.0	98.6		ug/L		108	79 - 120
Barium	1800		40.0	2040	4	ug/L		527	89 - 115
Beryllium	17		40.0	61.9		ug/L		112	85 - 115
Cadmium	3.4	B	40.0	48.5	F	ug/L		113	89 - 111
Chromium	170		40.0	233	4	ug/L		157	86 - 115
Lead	250		40.0	323	4	ug/L		184	88 - 115
Manganese	3400		40.0	3570	4	ug/L		464	87 - 115
Molybdenum	3.1	B	40.0	18.8	F	ug/L		39	89 - 112

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-22233-1 MS

Matrix: Water

Analysis Batch: 95235

Client Sample ID: B-1

Prep Type: Total Recoverable

Prep Batch: 93846

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Nickel	130		40.0	186	F	ug/L		141	86 - 115	
Selenium	7.5		40.0	37.2	F	ug/L		74	85 - 114	
Silver	0.73	J	40.0	47.1		ug/L		116	20 - 120	
Thallium	3.1		40.0	44.0		ug/L		102	86 - 115	
Uranium	58		40.0	108	F	ug/L		124	85 - 115	
Zinc	1000	B	40.0	1180	4	ug/L		343	88 - 115	

Lab Sample ID: 280-22233-1 MS

Matrix: Water

Analysis Batch: 95235

Client Sample ID: B-1

Prep Type: Total Recoverable

Prep Batch: 93846

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Copper	280		40.0	361	4	ug/L		190	90 - 115	

Lab Sample ID: 280-22233-1 MSD

Matrix: Water

Analysis Batch: 95235

Client Sample ID: B-1

Prep Type: Total Recoverable

Prep Batch: 93846

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	Limit
Antimony	0.25	J	40.0	1.61	J F	ug/L		3	85 - 115	20	20	
Arsenic	55		40.0	104	F	ug/L		121	79 - 120	5	20	
Barium	1800		40.0	2230	4	ug/L		1012	89 - 115	9	20	
Beryllium	17		40.0	61.6		ug/L		111	85 - 115	0	20	
Cadmium	3.4	B	40.0	47.2		ug/L		109	89 - 111	3	20	
Chromium	170		40.0	272	4	ug/L		255	86 - 115	15	20	
Lead	250		40.0	373	4	ug/L		308	88 - 115	14	20	
Manganese	3400		40.0	3730	4	ug/L		846	87 - 115	4	20	
Molybdenum	3.1	B	40.0	17.3	F	ug/L		36	89 - 112	8	20	
Nickel	130		40.0	212	F	ug/L		206	86 - 115	13	20	
Selenium	7.5		40.0	35.0	F	ug/L		69	85 - 114	6	20	
Silver	0.73	J	40.0	47.5		ug/L		117	20 - 120	1	20	
Thallium	3.1		40.0	43.0		ug/L		100	86 - 115	2	20	
Uranium	58		40.0	115	F	ug/L		142	85 - 115	7	20	
Zinc	1000	B	40.0	1350	4	ug/L		782	88 - 115	14	20	

Lab Sample ID: 280-22233-1 MSD

Matrix: Water

Analysis Batch: 95235

Client Sample ID: B-1

Prep Type: Total Recoverable

Prep Batch: 93846

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	Limit
Copper	280		40.0	411	4	ug/L		315	90 - 115	13	20	

Lab Sample ID: MB 280-93801/1-B

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Antimony	ND		2.0	0.16	ug/L		11/04/11 05:30	11/04/11 15:40		1
Arsenic	ND		5.0	0.50	ug/L		11/04/11 05:30	11/04/11 15:40		1
Barium	ND		1.0	0.38	ug/L		11/04/11 05:30	11/04/11 15:40		1
Beryllium	ND		1.0	0.15	ug/L		11/04/11 05:30	11/04/11 15:40		1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-93801/1-B

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	0.0790	J	1.0	0.040	ug/L		11/04/11 05:30	11/04/11 15:40	1
Chromium	ND		3.0	0.88	ug/L		11/04/11 05:30	11/04/11 15:40	1
Copper	ND		2.0	0.20	ug/L		11/04/11 05:30	11/04/11 15:40	1
Lead	ND		1.0	0.10	ug/L		11/04/11 05:30	11/04/11 15:40	1
Manganese	ND		2.0	0.51	ug/L		11/04/11 05:30	11/04/11 15:40	1
Molybdenum	0.0980	J	2.0	0.040	ug/L		11/04/11 05:30	11/04/11 15:40	1
Nickel	ND		2.0	0.28	ug/L		11/04/11 05:30	11/04/11 15:40	1
Selenium	ND		5.0	1.0	ug/L		11/04/11 05:30	11/04/11 15:40	1
Silver	ND		1.0	0.020	ug/L		11/04/11 05:30	11/04/11 15:40	1
Thallium	ND		1.0	0.066	ug/L		11/04/11 05:30	11/04/11 15:40	1
Uranium	ND		1.0	0.030	ug/L		11/04/11 05:30	11/04/11 15:40	1
Zinc	ND		10	2.0	ug/L		11/04/11 05:30	11/04/11 15:40	1

Lab Sample ID: LCS 280-93801/2-B

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	40.0	39.5		ug/L		99	85 - 115
Arsenic	40.0	41.7		ug/L		104	89 - 111
Barium	40.0	43.7		ug/L		109	89 - 115
Beryllium	40.0	40.9		ug/L		102	85 - 115
Cadmium	40.0	40.6		ug/L		101	89 - 111
Chromium	40.0	40.2		ug/L		101	86 - 115
Copper	40.0	40.3		ug/L		101	90 - 115
Lead	40.0	41.4		ug/L		103	88 - 115
Manganese	40.0	40.1		ug/L		100	87 - 115
Molybdenum	40.0	42.2		ug/L		106	89 - 112
Nickel	40.0	40.6		ug/L		102	86 - 115
Selenium	40.0	41.5		ug/L		104	85 - 114
Silver	40.0	39.8		ug/L		100	90 - 114
Thallium	40.0	41.2		ug/L		103	86 - 115
Uranium	40.0	41.2		ug/L		103	85 - 115
Zinc	40.0	44.4		ug/L		111	88 - 115

Lab Sample ID: 280-22255-F-1-C MS

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Matrix Spike

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Antimony	ND		40.0	42.7		ug/L		107	85 - 115
Arsenic	7.7		40.0	50.6		ug/L		107	79 - 120
Barium	570		40.0	626	4	ug/L		141	89 - 115
Beryllium	2.4		40.0	45.9		ug/L		109	85 - 115
Cadmium	1.6	B	40.0	44.1		ug/L		106	89 - 111
Chromium	26		40.0	69.8		ug/L		109	86 - 115
Copper	41		40.0	82.1		ug/L		102	90 - 115
Lead	11		40.0	52.1		ug/L		104	88 - 115
Manganese	3000		40.0	3170	4	ug/L		404	87 - 115
Molybdenum	4.6	B	40.0	47.0		ug/L		106	89 - 112

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-22255-F-1-C MS

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Matrix Spike

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Nickel	29		40.0	67.8		ug/L		97	86 - 115	
Selenium	3.9	J	40.0	45.6		ug/L		104	85 - 114	
Silver	ND		40.0	39.4		ug/L		98	20 - 120	
Thallium	ND		40.0	40.6		ug/L		101	86 - 115	
Uranium	31		40.0	74.7		ug/L		109	85 - 115	
Zinc	120		40.0	162	F	ug/L		116	88 - 115	

Lab Sample ID: 280-22255-F-1-D MSD

Matrix: Water

Analysis Batch: 95046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Potentially Dissolved

Prep Batch: 93819

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Antimony	ND		40.0	42.4		ug/L		106	85 - 115	1	20	
Arsenic	7.7		40.0	45.9		ug/L		96	79 - 120	10	20	
Barium	570		40.0	613	4	ug/L		108	89 - 115	2	20	
Beryllium	2.4		40.0	43.8		ug/L		104	85 - 115	5	20	
Cadmium	1.6	B	40.0	42.1		ug/L		101	89 - 111	4	20	
Chromium	26		40.0	65.1		ug/L		97	86 - 115	7	20	
Copper	41		40.0	80.3		ug/L		97	90 - 115	2	20	
Lead	11		40.0	50.8		ug/L		101	88 - 115	2	20	
Manganese	3000		40.0	3040	4	ug/L		82	87 - 115	4	20	
Molybdenum	4.6	B	40.0	48.0		ug/L		108	89 - 112	2	20	
Nickel	29		40.0	66.9		ug/L		95	86 - 115	1	20	
Selenium	3.9	J	40.0	45.1		ug/L		103	85 - 114	1	20	
Silver	ND		40.0	38.7		ug/L		97	20 - 120	2	20	
Thallium	ND		40.0	40.0		ug/L		100	86 - 115	1	20	
Uranium	31		40.0	71.5		ug/L		101	85 - 115	4	20	
Zinc	120		40.0	158		ug/L		105	88 - 115	3	20	

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-94413/1-A

Matrix: Water

Analysis Batch: 95136

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94413

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Mercury	ND		0.20	0.027	ug/L		11/04/11 12:00	11/04/11 15:44	1	

Lab Sample ID: LCS 280-94413/2-A

Matrix: Water

Analysis Batch: 95136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94413

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Mercury	5.00	4.93		ug/L		99	90 - 110	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-22255-E-2-F MS
Matrix: Water
Analysis Batch: 95136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 94413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.27		5.00	5.02		ug/L		95	80 - 120

Lab Sample ID: 280-22255-E-2-G MSD
Matrix: Water
Analysis Batch: 95136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 94413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.27		5.00	4.98		ug/L		94	80 - 120	1	10

Lab Sample ID: MB 280-94084/1-B
Matrix: Water
Analysis Batch: 95234

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 94416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		11/07/11 11:20	11/07/11 14:44	1

Lab Sample ID: LCS 280-94084/2-B
Matrix: Water
Analysis Batch: 95234

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 94416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	4.81		ug/L		96	90 - 110

Lab Sample ID: 280-22233-1 MS
Matrix: Water
Analysis Batch: 95234

Client Sample ID: B-1
Prep Type: Potentially Dissolved
Prep Batch: 94416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		5.00	4.57		ug/L		91	80 - 120

Lab Sample ID: 280-22233-1 MSD
Matrix: Water
Analysis Batch: 95234

Client Sample ID: B-1
Prep Type: Potentially Dissolved
Prep Batch: 94416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		5.00	4.94		ug/L		99	80 - 120	8	10

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 280-94138/5
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/01/11 09:20	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-94138/3
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.100	0.0998		mg/L		100	85 - 115

Lab Sample ID: LCSD 280-94138/4
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.102		mg/L		102	85 - 115	3	20

Lab Sample ID: 280-22234-C-1 MS
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0070	J	0.100	0.119		mg/L		112	75 - 125

Lab Sample ID: 280-22234-C-1 MSD
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.0070	J	0.100	0.116		mg/L		110	75 - 125	2	20

Lab Sample ID: 280-22234-C-1 DU
Matrix: Water
Analysis Batch: 94138

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.0070	J	0.100	0.0113	J	mg/L				48	20

Method: 7196A - Chromium, Trivalent (Colorimetric)

Lab Sample ID: MB 280-95520/1
Matrix: Water
Analysis Batch: 95520

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	ND		0.020	0.020	mg/L			11/09/11 15:39	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-94779/1
Matrix: Water
Analysis Batch: 94779

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			11/04/11 10:30	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 280-94779/2
Matrix: Water
Analysis Batch: 94779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	481		mg/L		96	86 - 110

Lab Sample ID: LCSD 280-94779/3
Matrix: Water
Analysis Batch: 94779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	500	483		mg/L		97	86 - 110	0	20

Lab Sample ID: 280-22205-B-1 DU
Matrix: Water
Analysis Batch: 94779

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	68		64.0		mg/L		6	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-94508/1
Matrix: Water
Analysis Batch: 94508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			11/02/11 17:38	1

Lab Sample ID: LCS 280-94508/2
Matrix: Water
Analysis Batch: 94508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	105		mg/L		105	86 - 114

Lab Sample ID: LCSD 280-94508/3
Matrix: Water
Analysis Batch: 94508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	94.0		mg/L		94	86 - 114	11	20

Lab Sample ID: 280-22189-A-1 DU
Matrix: Water
Analysis Batch: 94508

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	1.2	J	1.60	J	mg/L		29	10

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

GC/MS VOA

Analysis Batch: 94686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	624	
280-22233-2	TRIP BLANK	Total/NA	Water	624	
280-22305-G-2 MS	Matrix Spike	Total/NA	Water	624	
280-22305-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	624	
LCS 280-94686/31	Lab Control Sample	Total/NA	Water	624	
MB 280-94686/32	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 94202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	625	
LCS 280-94202/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 280-94202/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 280-94202/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 95595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	625	94202
LCS 280-94202/2-A	Lab Control Sample	Total/NA	Water	625	94202
LCSD 280-94202/3-A	Lab Control Sample Dup	Total/NA	Water	625	94202
MB 280-94202/1-A	Method Blank	Total/NA	Water	625	94202

Metals

Prep Batch: 93819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	200.8	
280-22255-F-1-C MS	Matrix Spike	Potentially Dissolved	Water	200.8	
280-22255-F-1-D MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	
LCS 280-93801/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	
MB 280-93801/1-B	Method Blank	Potentially Dissolved	Water	200.8	

Prep Batch: 93845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total Recoverable	Water	200.7	
280-22233-1 MS	B-1	Total Recoverable	Water	200.7	
280-22233-1 MSD	B-1	Total Recoverable	Water	200.7	
LCS 280-93845/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 280-93845/1-A	Method Blank	Total Recoverable	Water	200.7	

Prep Batch: 93846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total Recoverable	Water	200.8	
280-22233-1 MS	B-1	Total Recoverable	Water	200.8	
280-22233-1 MSD	B-1	Total Recoverable	Water	200.8	
LCS 280-93846/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 280-93846/1-A	Method Blank	Total Recoverable	Water	200.8	

Prep Batch: 94413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	245.1	

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Metals (Continued)

Prep Batch: 94413 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22255-E-2-F MS	Matrix Spike	Total/NA	Water	245.1	
280-22255-E-2-G MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	
LCS 280-94413/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 280-94413/1-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 94416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	245.1	
280-22233-1 MS	B-1	Potentially Dissolved	Water	245.1	
280-22233-1 MSD	B-1	Potentially Dissolved	Water	245.1	
LCS 280-94084/2-B	Lab Control Sample	Potentially Dissolved	Water	245.1	
MB 280-94084/1-B	Method Blank	Potentially Dissolved	Water	245.1	

Prep Batch: 94501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	200.7	
280-22255-E-2-L MS	Matrix Spike	Potentially Dissolved	Water	200.7	
280-22255-E-2-M MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.7	
LCS 280-94381/2-C	Lab Control Sample	Potentially Dissolved	Water	200.7	
MB 280-94381/1-C	Method Blank	Potentially Dissolved	Water	200.7	

Analysis Batch: 95046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	200.8	93819
280-22255-F-1-C MS	Matrix Spike	Potentially Dissolved	Water	200.8	93819
280-22255-F-1-D MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	93819
LCS 280-93801/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	93819
MB 280-93801/1-B	Method Blank	Potentially Dissolved	Water	200.8	93819

Analysis Batch: 95053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
280-22233-1 MS	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
280-22233-1 MSD	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
LCS 280-93845/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	93845
MB 280-93845/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	93845

Analysis Batch: 95136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	245.1	94413
280-22255-E-2-F MS	Matrix Spike	Total/NA	Water	245.1	94413
280-22255-E-2-G MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	94413
LCS 280-94413/2-A	Lab Control Sample	Total/NA	Water	245.1	94413
MB 280-94413/1-A	Method Blank	Total/NA	Water	245.1	94413

Analysis Batch: 95234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	245.1	94416
280-22233-1 MS	B-1	Potentially Dissolved	Water	245.1	94416
280-22233-1 MSD	B-1	Potentially Dissolved	Water	245.1	94416
LCS 280-94084/2-B	Lab Control Sample	Potentially Dissolved	Water	245.1	94416
MB 280-94084/1-B	Method Blank	Potentially Dissolved	Water	245.1	94416

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Metals (Continued)

Analysis Batch: 95235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total Recoverable	Water	200.8	93846
280-22233-1	B-1	Total Recoverable	Water	200.8	93846
280-22233-1 MS	B-1	Total Recoverable	Water	200.8	93846
280-22233-1 MS	B-1	Total Recoverable	Water	200.8	93846
280-22233-1 MSD	B-1	Total Recoverable	Water	200.8	93846
280-22233-1 MSD	B-1	Total Recoverable	Water	200.8	93846
LCS 280-93846/2-A	Lab Control Sample	Total Recoverable	Water	200.8	93846
MB 280-93846/1-A	Method Blank	Total Recoverable	Water	200.8	93846

Analysis Batch: 95238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
280-22233-1 MS	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
280-22233-1 MSD	B-1	Total Recoverable	Water	200.7 Rev 4.4	93845
LCS 280-93845/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	93845
MB 280-93845/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	93845

Analysis Batch: 95241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Potentially Dissolved	Water	200.7 Rev 4.4	94501
280-22255-E-2-L MS	Matrix Spike	Potentially Dissolved	Water	200.7 Rev 4.4	94501
280-22255-E-2-M MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.7 Rev 4.4	94501
LCS 280-94381/2-C	Lab Control Sample	Potentially Dissolved	Water	200.7 Rev 4.4	94501
MB 280-94381/1-C	Method Blank	Potentially Dissolved	Water	200.7 Rev 4.4	94501

General Chemistry

Analysis Batch: 94138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	7196A	
280-22234-C-1 DU	Duplicate	Total/NA	Water	7196A	
280-22234-C-1 MS	Matrix Spike	Total/NA	Water	7196A	
280-22234-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	7196A	
LCS 280-94138/3	Lab Control Sample	Total/NA	Water	7196A	
LCSD 280-94138/4	Lab Control Sample Dup	Total/NA	Water	7196A	
MB 280-94138/5	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 94508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22189-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	
280-22233-1	B-1	Total/NA	Water	SM 2540D	
LCS 280-94508/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-94508/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 280-94508/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 94779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22205-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	
280-22233-1	B-1	Total/NA	Water	SM 2540C	
LCS 280-94779/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-94779/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
MB 280-94779/1	Method Blank	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

General Chemistry (Continued)

Analysis Batch: 95520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22233-1	B-1	Total/NA	Water	7196A	
MB 280-95520/1	Method Blank	Total/NA	Water	7196A	

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Lab Chronicle

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Client Sample ID: B-1

Lab Sample ID: 280-22233-1

Date Collected: 10/31/11 10:07

Matrix: Water

Date Received: 10/31/11 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	94686	11/03/11 23:03	GPM	TAL DEN
Total/NA	Prep	625			1052.8 mL	1000 uL	94202	11/01/11 12:25	ACF	TAL DEN
Total/NA	Analysis	625		1			95595	11/08/11 22:00	MGH	TAL DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	93819	11/04/11 05:30	CLI	TAL DEN
Potentially Dissolved	Analysis	200.8		1			95046	11/04/11 16:13	LT	TAL DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	93845	11/04/11 14:00	JM	TAL DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			95053	11/06/11 17:16	JKH	TAL DEN
Total/NA	Prep	245.1			30 mL	30 mL	94413	11/04/11 12:00	BLR	TAL DEN
Total/NA	Analysis	245.1		1			95136	11/04/11 15:50	BLR	TAL DEN
Potentially Dissolved	Prep	245.1			30 mL	30 mL	94416	11/07/11 11:20	BLR	TAL DEN
Potentially Dissolved	Analysis	245.1		1			95234	11/07/11 14:49	BLR	TAL DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	93846	11/06/11 10:00	JM	TAL DEN
Total Recoverable	Analysis	200.8		1			95235	11/07/11 16:31	LT	TAL DEN
Total Recoverable	Analysis	200.8		1			95235	11/07/11 18:03	LT	TAL DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			95238	11/07/11 16:37	JKH	TAL DEN
Potentially Dissolved	Prep	200.7			50 mL	50 mL	94501	11/02/11 05:30	CLI	TAL DEN
Potentially Dissolved	Analysis	200.7 Rev 4.4		1			95241	11/07/11 23:39	JKH	TAL DEN
Total/NA	Analysis	7196A		1			94138	11/01/11 09:20	JAD	TAL DEN
Total/NA	Analysis	SM 2540D		1	4 mL	250 mL	94508	11/02/11 17:38	PAG	TAL DEN
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	94779	11/04/11 10:30	BJD	TAL DEN
Total/NA	Analysis	7196A		1	1.0 mL	1.0 mL	95520	11/09/11 15:39	JC	TAL DEN

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-22233-2

Date Collected: 10/31/11 10:07

Matrix: Water

Date Received: 10/31/11 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	94686	11/03/11 23:27	GPM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: Pinyon Env Eng Resources, Inc.
 Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22233-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sampler ID IR1 10/31/11
Temperature on Receipt 0.8
Drinking Water? Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: **Pryon Environmental Engineering**
Address: **9100 West Jewell Ave, Ste 200**
City: **Lakewood** State: **CO** Zip Code: **80232**
Project Name and Location (State): **USC 5 BNSF Durr Co**
Contract/Purchase Order/Quote No.: **Lab Project No: 28007143**
Project Manager: **Brian Partridge** Telephone Number (Area Code)/Fax Number: **303-980-5200**
Site Contact: **Brian Partridge** Lab Contact: **Michelle Johnston** Carrier/Waybill Number: _____
Date: **10/31/11** Chain of Custody Number: **148815**
Lab Number: **28007143** Page **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
		Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
B-1	10/31/11 10:07	X						X	X	X	X			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown. Return To Client Disposal By Lab Archive For Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By [Signature] Date 10/31/11 Time 16:30
2. Relinquished By _____ Date _____ Time _____
3. Relinquished By _____ Date _____ Time _____

QC Requirements (Specify)

1. Received By _____ Date _____ Time _____
2. Received By _____ Date _____ Time _____
3. Received By _____ Date _____ Time _____

Comments _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Login Sample Receipt Checklist

Client: Pinyon Env Eng Resources, Inc.

Job Number: 280-22233-1

Login Number: 22233

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	TB NOT LISTED
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-22635-1
Client Project/Site: US 6 and BNSF

For:
Pinyon Env Eng Resources, Inc.
9100 West Jewell Avenue
Suite 200
Lakewood, Colorado 80232

Attn: Mr. Brian R. Partington



Authorized for release by:
11/29/2011 12:52:48 PM

Michelle Johnston
Project Manager I
michelle.johnston@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Job ID: 280-22635-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: Pinyon Env. Eng. Resources, Inc.
Project: US 6 & BNSF
Report Number: 280-22635-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 11/10/2011; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.4 C.

The chain-of-custody did not indicate a sample collection time for sample B-6 (280-22635-1). The sample collection time was logged as 2005, per the sample container labels. The client was notified on November 10, 2011.

No other anomalies were encountered during sample receipt.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample B-6 (280-22635-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The sample was analyzed on 11/22/2011.

The LCS associated with analytical batch 280-97497 exhibited a surrogate recovery below the QC control limits for 4-Bromofluorobenzene. As the associated LCS compound recoveries were within QC control limits, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the VOC analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample B-6 (280-22635-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA Method 625. The sample was prepared on 11/10/2011 and analyzed on 11/15/2011.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 280-95599/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The method required MS/MSD analyses could not be performed for prep batch 280-95599, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Job ID: 280-22635-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

TOTAL RECOVERABLE METALS (ICP)

Sample B-6 (280-22635-1) was analyzed for total recoverable metals (ICP) in accordance with EPA Method 200.7. The sample was prepared on 11/14/2011 and analyzed on 11/16/2011.

The MS/MSD associated with prep batch 280-96029 was performed on sample B-6 (280-22635-1). The MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for Aluminum and Iron because the sample concentrations were greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Aluminum was recovered outside the QC control limits, biased high, in the Initial Calibration Verification (ICV) standard associated with the Method Blank and LCS for prep batch 280-96029. This is an indicator that data may be biased high. As the associated Method Blank and LCS compound recoveries were within QC control limits, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICP/MS)

Sample B-6 (280-22635-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8. The sample was prepared on 11/14/2011 and analyzed on 11/15/2011.

Copper was detected in method blank MB 280-95999/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The MS/MSD associated with prep batch 280-95999 was performed on sample B-6 (280-22635-1). The MS/MSD exhibited spike compound recoveries outside the control limits for Antimony, Copper, Molybdenum and Selenium. In addition, the MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for Barium, Manganese and Zinc because the sample concentrations were greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The second MS/MSD associated with prep batch 280-95999 was performed on a sample from another client and/or job. The MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for Manganese because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED METALS (ICP)

Sample B-6 (280-22635-1) was analyzed for Metals (ICP) in accordance with EPA 200.7. The sample was prepared on 11/14/2011 and analyzed on 11/16/2011.

The MS/MSD associated with prep batch 280-95937 was performed on sample B-6 (280-22635-1). The MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for Iron because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Aluminum was recovered outside the QC control limits, biased high, in the Initial Calibration Verification (ICV) standard associated with

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Job ID: 280-22635-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

the Method Blank and LCS for prep batch 280-95937. This is an indicator that data may be biased high. As the associated Method Blank and LCS compound recoveries were within QC control limits, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED METALS (ICP/MS)

Sample B-6 (280-22635-1) was analyzed for potentially dissolved metals in accordance with EPA Method 200.8. The sample was prepared on 11/14/2011 and 11/28/2011 and analyzed on 11/15/2011 and 11/28/2011.

Cadmium was detected in method blank MB 280-95562/1-B at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The MS/MSD associated with prep batch 280-95930 was performed on a sample from another client and/or job. The MS/MSD exhibited a spike compound recovery outside the control limits for Selenium. In addition, the MS/MSD spike compound recoveries and relative percent difference (RPD) data could not be reliably calculated for Uranium because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The method required MS/MSD analyses could not be performed for prep batch 280-97606, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY (CVAA)

Sample B-6 (280-22635-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The sample was prepared and analyzed on 11/14/2011.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

POTENTIALLY DISSOLVED MERCURY (CVAA)

Sample B-6 (280-22635-1) was analyzed for mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 11/17/2011.

The method required MS/MSD analyses could not be performed for prep batch 280-96683, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No other difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample B-6 (280-22635-1) was analyzed for total dissolved solids in accordance with SM20 2540C. The sample was analyzed on 11/15/2011.

Case Narrative

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Job ID: 280-22635-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Due to matrix interference, a reduced aliquot size was used for the analysis sample B-6 (280-22635-1). The reporting limit and method detection limit have been elevated accordingly.

No other difficulties were encountered during the TDS analysis.

All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS

Sample B-6 (280-22635-1) was analyzed for total suspended solids in accordance with SM20 2540D. The sample was analyzed on 11/14/2011.

Due to matrix interference, a reduced aliquot size was used for the analysis sample B-6 (280-22635-1). The reporting limit and method detection limit have been elevated accordingly.

The Total Suspended Solids sample duplicate analysis data associated with analytical batch 280-96214 exhibited RPD data outside the QC limits. The acceptable LCS/LCSD analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Refer to the QC report for details.

No other difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample B-6 (280-22635-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The sample was analyzed on 11/10/2011.

No difficulties were encountered during the hex chrome analysis.

All quality control parameters were within the acceptance limits.

TRIVALENT CHROMIUM

Sample B-6 (280-22635-1) was analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The sample was analyzed on 11/18/2011.

No difficulties were encountered during the trivalent chromium analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Client Sample ID: B-6

Lab Sample ID: 280-22635-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.21	J	1.0	0.16	ug/L	1		624	Total/NA
Xylenes, Total	0.48	J	2.0	0.19	ug/L	1		624	Total/NA
Acetone	2.5	J	20	1.9	ug/L	1		624	Total/NA
m-Xylene & p-Xylene	0.24	J	2.0	0.19	ug/L	1		624	Total/NA
o-Xylene	0.24	J	1.0	0.19	ug/L	1		624	Total/NA
Total BTEX	0.48	J	1.0	0.16	ug/L	1		624	Total/NA
Naphthalene	0.36	J	9.5	0.28	ug/L	1		625	Total/NA
Bis(2-ethylhexyl) phthalate	2.5	J B	9.5	0.53	ug/L	1		625	Total/NA
Diethyl phthalate	0.69	J	9.5	0.36	ug/L	1		625	Total/NA
Aluminum	130000		100	18	ug/L	1		200.7 Rev 4.4	Total Recovers
Iron	200000		100	22	ug/L	1		200.7 Rev 4.4	Total Recovers
Aluminum	3700		100	18	ug/L	1		200.7 Rev 4.4	Potentially Diss
Iron	7400		100	22	ug/L	1		200.7 Rev 4.4	Potentially Diss
Antimony	0.22	J	2.0	0.16	ug/L	1		200.8	Total Recovers
Arsenic	58		5.0	0.50	ug/L	1		200.8	Total Recovers
Barium	2100		1.0	0.38	ug/L	1		200.8	Total Recovers
Beryllium	9.5		1.0	0.15	ug/L	1		200.8	Total Recovers
Cadmium	1.6		1.0	0.040	ug/L	1		200.8	Total Recovers
Chromium	93		3.0	0.88	ug/L	1		200.8	Total Recovers
Copper	120	B	2.0	0.20	ug/L	1		200.8	Total Recovers
Lead	100		1.0	0.10	ug/L	1		200.8	Total Recovers
Manganese	1300		2.0	0.51	ug/L	1		200.8	Total Recovers
Molybdenum	6.2		2.0	0.040	ug/L	1		200.8	Total Recovers
Nickel	62		2.0	0.28	ug/L	1		200.8	Total Recovers
Selenium	31		5.0	1.0	ug/L	1		200.8	Total Recovers
Silver	0.45	J	1.0	0.020	ug/L	1		200.8	Total Recovers
Thallium	1.4		1.0	0.066	ug/L	1		200.8	Total Recovers
Uranium	48		1.0	0.030	ug/L	1		200.8	Total Recovers
Zinc	420		10	2.0	ug/L	1		200.8	Total Recovers
Antimony	0.43	J	2.0	0.16	ug/L	1		200.8	Potentially Diss
Arsenic	12		5.0	0.50	ug/L	1		200.8	Potentially Diss
Barium	510		1.0	0.38	ug/L	1		200.8	Potentially Diss
Beryllium	4.3		1.0	0.15	ug/L	1		200.8	Potentially Diss
Cadmium	0.97	J B	1.0	0.040	ug/L	1		200.8	Potentially Diss
Chromium	11		3.0	0.88	ug/L	1		200.8	Potentially Diss
Copper	36		2.0	0.20	ug/L	1		200.8	Potentially Diss
Lead	27		1.0	0.10	ug/L	1		200.8	Potentially Diss
Manganese	900		2.0	0.51	ug/L	1		200.8	Potentially Diss
Molybdenum	3.6		2.0	0.040	ug/L	1		200.8	Potentially Diss
Nickel	16		2.0	0.28	ug/L	1		200.8	Potentially Diss
Selenium	6.3		5.0	1.0	ug/L	1		200.8	Potentially Diss
Uranium	30		1.0	0.030	ug/L	1		200.8	Potentially Diss
Zinc	160		10	2.0	ug/L	1		200.8	Potentially Diss
Mercury	0.65		0.20	0.027	ug/L	1		245.1	Total/NA
Chromium, hexavalent	0.0061	J	0.020	0.0040	mg/L	1		7196A	Total/NA
Cr (III)	0.087		0.020	0.020	mg/L	1		7196A	Total/NA
Total Dissolved Solids	930		330	160	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	9400		250	69	mg/L	1		SM 2540D	Total/NA

Method Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL DEN
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL DEN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL DEN
200.8	Metals (ICP/MS)	EPA	TAL DEN
245.1	Mercury (CVAA)	EPA	TAL DEN
7196A	Chromium, Hexavalent	SW846	TAL DEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-22635-1	B-6	Water	11/09/11 20:05	11/10/11 08:00

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: B-6

Date Collected: 11/09/11 20:05

Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			11/22/11 20:22	1
Bromoform	ND		1.0	0.19	ug/L			11/22/11 20:22	1
Bromomethane	ND		2.0	0.21	ug/L			11/22/11 20:22	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			11/22/11 20:22	1
Chlorobenzene	ND		1.0	0.17	ug/L			11/22/11 20:22	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			11/22/11 20:22	1
Chloroethane	ND		2.0	0.41	ug/L			11/22/11 20:22	1
2-Chloroethyl vinyl ether	ND		3.0	0.74	ug/L			11/22/11 20:22	1
Chloroform	0.21	J	1.0	0.16	ug/L			11/22/11 20:22	1
Chloromethane	ND		2.0	0.30	ug/L			11/22/11 20:22	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
1,2-Dichlorobenzene	ND		1.0	0.13	ug/L			11/22/11 20:22	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			11/22/11 20:22	1
1,1-Dichloroethane	ND		1.0	0.16	ug/L			11/22/11 20:22	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			11/22/11 20:22	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/22/11 20:22	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/22/11 20:22	1
1,1-Dichloroethene	ND		1.0	0.14	ug/L			11/22/11 20:22	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			11/22/11 20:22	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			11/22/11 20:22	1
Ethylbenzene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
Methylene Chloride	ND		5.0	0.32	ug/L			11/22/11 20:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/22/11 20:22	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/22/11 20:22	1
Toluene	ND		1.0	0.17	ug/L			11/22/11 20:22	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			11/22/11 20:22	1
1,1,2-Trichloroethane	ND		1.0	0.32	ug/L			11/22/11 20:22	1
Trichloroethene	ND		1.0	0.16	ug/L			11/22/11 20:22	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			11/22/11 20:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			11/22/11 20:22	1
Xylenes, Total	0.48	J	2.0	0.19	ug/L			11/22/11 20:22	1
Acetone	2.5	J	20	1.9	ug/L			11/22/11 20:22	1
Acrolein	ND		100	2.8	ug/L			11/22/11 20:22	1
Acrylonitrile	ND		100	1.4	ug/L			11/22/11 20:22	1
2-Butanone (MEK)	ND		20	1.8	ug/L			11/22/11 20:22	1
Carbon disulfide	ND		5.0	0.45	ug/L			11/22/11 20:22	1
1,2-Dibromo-3-Chloropropane	ND		10	0.81	ug/L			11/22/11 20:22	1
Ethylene Dibromide	ND		5.0	0.18	ug/L			11/22/11 20:22	1
1,2-Dichloroethene, Total	ND		5.0	0.15	ug/L			11/22/11 20:22	1
1,3-Dichloropropene, Total	ND		5.0	0.16	ug/L			11/22/11 20:22	1
1,4-Dioxane	ND		250	71	ug/L			11/22/11 20:22	1
Hexane	ND		5.0	0.42	ug/L			11/22/11 20:22	1
2-Hexanone	ND		20	1.4	ug/L			11/22/11 20:22	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.49	ug/L			11/22/11 20:22	1
Methyl tert-butyl ether	ND		20	0.25	ug/L			11/22/11 20:22	1
Styrene	ND		5.0	0.17	ug/L			11/22/11 20:22	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
 Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.17	ug/L			11/22/11 20:22	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/22/11 20:22	1
Dibromomethane	ND		5.0	0.17	ug/L			11/22/11 20:22	1
Vinyl acetate	ND		10	0.94	ug/L			11/22/11 20:22	1
m-Xylene & p-Xylene	0.24	J	2.0	0.19	ug/L			11/22/11 20:22	1
o-Xylene	0.24	J	1.0	0.19	ug/L			11/22/11 20:22	1
Total BTEX	0.48	J	1.0	0.16	ug/L			11/22/11 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 120					11/22/11 20:22	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 122					11/22/11 20:22	1
4-Bromofluorobenzene (Surr)	105		79 - 119					11/22/11 20:22	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B-6

Date Collected: 11/09/11 20:05

Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.5	0.27	ug/L		11/10/11 11:30	11/15/11 08:20	1
Benzidine	ND		140	47	ug/L		11/10/11 11:30	11/15/11 08:20	1
1,2,4-Trichlorobenzene	ND		9.5	0.27	ug/L		11/10/11 11:30	11/15/11 08:20	1
Hexachlorobenzene	ND		9.5	0.63	ug/L		11/10/11 11:30	11/15/11 08:20	1
Bis(2-chloroethyl)ether	ND		9.5	0.39	ug/L		11/10/11 11:30	11/15/11 08:20	1
2-Chloronaphthalene	ND		9.5	0.25	ug/L		11/10/11 11:30	11/15/11 08:20	1
2-Chlorophenol	ND		9.5	1.9	ug/L		11/10/11 11:30	11/15/11 08:20	1
2-Methylphenol	ND		9.5	0.93	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,4,6-Trichlorophenol	ND		19	0.28	ug/L		11/10/11 11:30	11/15/11 08:20	1
3,3'-Dichlorobenzidine	ND		47	1.9	ug/L		11/10/11 11:30	11/15/11 08:20	1
Hexachloroethane	ND		9.5	2.0	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,4-Dichlorophenol	ND		9.5	0.61	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,4-Dimethylphenol	ND		9.5	0.55	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,4-Dinitrotoluene	ND		9.5	1.6	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		11/10/11 11:30	11/15/11 08:20	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.5	0.22	ug/L		11/10/11 11:30	11/15/11 08:20	1
Fluoranthene	ND		9.5	0.19	ug/L		11/10/11 11:30	11/15/11 08:20	1
4-Bromophenyl phenyl ether	ND		9.5	0.41	ug/L		11/10/11 11:30	11/15/11 08:20	1
4-Chlorophenyl phenyl ether	ND		9.5	1.6	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,2'-Oxybis(1-chloropropane)	ND		9.5	0.27	ug/L		11/10/11 11:30	11/15/11 08:20	1
Bis(2-chloroethoxy)methane	ND		9.5	0.92	ug/L		11/10/11 11:30	11/15/11 08:20	1
Hexachlorobutadiene	ND		9.5	3.1	ug/L		11/10/11 11:30	11/15/11 08:20	1
Hexachlorocyclopentadiene	ND		47	1.5	ug/L		11/10/11 11:30	11/15/11 08:20	1
Isophorone	ND		9.5	0.20	ug/L		11/10/11 11:30	11/15/11 08:20	1
Naphthalene	0.36	J	9.5	0.28	ug/L		11/10/11 11:30	11/15/11 08:20	1
Nitrobenzene	ND		9.5	0.77	ug/L		11/10/11 11:30	11/15/11 08:20	1
2-Nitrophenol	ND		19	0.37	ug/L		11/10/11 11:30	11/15/11 08:20	1
2,4-Dinitrophenol	ND		57	9.5	ug/L		11/10/11 11:30	11/15/11 08:20	1
4-Nitrophenol	ND		47	1.2	ug/L		11/10/11 11:30	11/15/11 08:20	1
4,6-Dinitro-2-methylphenol	ND		57	3.8	ug/L		11/10/11 11:30	11/15/11 08:20	1
N-Nitrosodimethylamine	ND		9.5	0.28	ug/L		11/10/11 11:30	11/15/11 08:20	1
N-Nitrosodi-n-propylamine	ND		9.5	0.33	ug/L		11/10/11 11:30	11/15/11 08:20	1
N-Nitrosodiphenylamine	ND		9.5	0.42	ug/L		11/10/11 11:30	11/15/11 08:20	1
Pentachlorophenol	ND		57	19	ug/L		11/10/11 11:30	11/15/11 08:20	1
Phenol	ND		9.5	1.9	ug/L		11/10/11 11:30	11/15/11 08:20	1
Bis(2-ethylhexyl) phthalate	2.5	J B	9.5	0.53	ug/L		11/10/11 11:30	11/15/11 08:20	1
Butyl benzyl phthalate	ND		9.5	0.95	ug/L		11/10/11 11:30	11/15/11 08:20	1
Di-n-butyl phthalate	ND		9.5	1.1	ug/L		11/10/11 11:30	11/15/11 08:20	1
Di-n-octyl phthalate	ND		9.5	0.33	ug/L		11/10/11 11:30	11/15/11 08:20	1
Diethyl phthalate	0.69	J	9.5	0.36	ug/L		11/10/11 11:30	11/15/11 08:20	1
Dimethyl phthalate	ND		9.5	0.20	ug/L		11/10/11 11:30	11/15/11 08:20	1
Benzo[a]anthracene	ND		9.5	0.33	ug/L		11/10/11 11:30	11/15/11 08:20	1
Benzo[a]pyrene	ND		9.5	0.29	ug/L		11/10/11 11:30	11/15/11 08:20	1
Benzo[b]fluoranthene	ND		9.5	0.50	ug/L		11/10/11 11:30	11/15/11 08:20	1
Benzo[k]fluoranthene	ND		9.5	0.44	ug/L		11/10/11 11:30	11/15/11 08:20	1
Anthracene	ND		9.5	0.40	ug/L		11/10/11 11:30	11/15/11 08:20	1
Acenaphthylene	ND		9.5	0.47	ug/L		11/10/11 11:30	11/15/11 08:20	1
Chrysene	ND		9.5	0.51	ug/L		11/10/11 11:30	11/15/11 08:20	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
 Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		9.5	0.47	ug/L		11/10/11 11:30	11/15/11 08:20	1
Fluorene	ND		9.5	0.29	ug/L		11/10/11 11:30	11/15/11 08:20	1
Phenanthrene	ND		9.5	0.25	ug/L		11/10/11 11:30	11/15/11 08:20	1
Dibenz(a,h)anthracene	ND		9.5	0.48	ug/L		11/10/11 11:30	11/15/11 08:20	1
Indeno[1,2,3-cd]pyrene	ND		9.5	0.62	ug/L		11/10/11 11:30	11/15/11 08:20	1
Pyrene	ND		9.5	0.35	ug/L		11/10/11 11:30	11/15/11 08:20	1
3 & 4 Methylphenol	ND		9.5	0.76	ug/L		11/10/11 11:30	11/15/11 08:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2-Fluorobiphenyl</i>	81		36 - 120				11/10/11 11:30	11/15/11 08:20	1
<i>2-Fluorophenol</i>	90		30 - 120				11/10/11 11:30	11/15/11 08:20	1
<i>2,4,6-Tribromophenol</i>	101		50 - 120				11/10/11 11:30	11/15/11 08:20	1
<i>Nitrobenzene-d5</i>	88		45 - 120				11/10/11 11:30	11/15/11 08:20	1
<i>Phenol-d5</i>	92		36 - 120				11/10/11 11:30	11/15/11 08:20	1
<i>Terphenyl-d14</i>	66		52 - 120				11/10/11 11:30	11/15/11 08:20	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	130000		100	18	ug/L		11/14/11 14:00	11/16/11 04:31	1
Iron	200000		100	22	ug/L		11/14/11 14:00	11/16/11 04:31	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Potentially Dissolved

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3700		100	18	ug/L		11/14/11 14:00	11/16/11 03:06	1
Iron	7400		100	22	ug/L		11/14/11 14:00	11/16/11 03:06	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	2.0	0.16	ug/L		11/14/11 14:00	11/15/11 00:30	1
Arsenic	58		5.0	0.50	ug/L		11/14/11 14:00	11/15/11 00:30	1
Barium	2100		1.0	0.38	ug/L		11/14/11 14:00	11/15/11 00:30	1
Beryllium	9.5		1.0	0.15	ug/L		11/14/11 14:00	11/15/11 00:30	1
Cadmium	1.6		1.0	0.040	ug/L		11/14/11 14:00	11/15/11 00:30	1
Chromium	93		3.0	0.88	ug/L		11/14/11 14:00	11/15/11 00:30	1
Copper	120	B	2.0	0.20	ug/L		11/14/11 14:00	11/15/11 00:30	1
Lead	100		1.0	0.10	ug/L		11/14/11 14:00	11/15/11 00:30	1
Manganese	1300		2.0	0.51	ug/L		11/14/11 14:00	11/15/11 00:30	1
Molybdenum	6.2		2.0	0.040	ug/L		11/14/11 14:00	11/15/11 00:30	1
Nickel	62		2.0	0.28	ug/L		11/14/11 14:00	11/15/11 00:30	1
Selenium	31		5.0	1.0	ug/L		11/14/11 14:00	11/15/11 00:30	1
Silver	0.45	J	1.0	0.020	ug/L		11/14/11 14:00	11/15/11 00:30	1
Thallium	1.4		1.0	0.066	ug/L		11/14/11 14:00	11/15/11 00:30	1
Uranium	48		1.0	0.030	ug/L		11/14/11 14:00	11/15/11 00:30	1
Zinc	420		10	2.0	ug/L		11/14/11 14:00	11/15/11 00:30	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	2.0	0.16	ug/L		11/14/11 06:30	11/15/11 17:06	1
Arsenic	12		5.0	0.50	ug/L		11/14/11 06:30	11/15/11 17:06	1
Barium	510		1.0	0.38	ug/L		11/14/11 06:30	11/15/11 17:06	1
Beryllium	4.3		1.0	0.15	ug/L		11/14/11 06:30	11/15/11 17:06	1
Cadmium	0.97	J B	1.0	0.040	ug/L		11/14/11 06:30	11/15/11 17:06	1
Chromium	11		3.0	0.88	ug/L		11/14/11 06:30	11/15/11 17:06	1
Copper	36		2.0	0.20	ug/L		11/14/11 06:30	11/15/11 17:06	1
Lead	27		1.0	0.10	ug/L		11/14/11 06:30	11/15/11 17:06	1
Manganese	900		2.0	0.51	ug/L		11/14/11 06:30	11/15/11 17:06	1
Molybdenum	3.6		2.0	0.040	ug/L		11/28/11 08:30	11/28/11 20:35	1
Nickel	16		2.0	0.28	ug/L		11/14/11 06:30	11/15/11 17:06	1
Selenium	6.3		5.0	1.0	ug/L		11/14/11 06:30	11/15/11 17:06	1
Silver	ND		1.0	0.020	ug/L		11/14/11 06:30	11/15/11 17:06	1
Thallium	ND		1.0	0.066	ug/L		11/14/11 06:30	11/15/11 17:06	1
Uranium	30		1.0	0.030	ug/L		11/14/11 06:30	11/15/11 17:06	1
Zinc	160		10	2.0	ug/L		11/14/11 06:30	11/15/11 17:06	1

Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 245.1 - Mercury (CVAA)

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.20	0.027	ug/L		11/14/11 12:45	11/14/11 18:58	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 245.1 - Mercury (CVAA) - Potentially Dissolved

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		11/17/11 10:30	11/17/11 19:44	1

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Client Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

General Chemistry

Client Sample ID: B-6
Date Collected: 11/09/11 20:05
Date Received: 11/10/11 08:00

Lab Sample ID: 280-22635-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.0061	J	0.020	0.0040	mg/L			11/10/11 11:04	1
Cr (III)	0.087		0.020	0.020	mg/L			11/18/11 07:49	1
Total Dissolved Solids	930		330	160	mg/L			11/15/11 09:43	1
Total Suspended Solids	9400		250	69	mg/L			11/14/11 13:37	1

Surrogate Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (80-120)	12DCE (73-122)	BFB (79-119)
280-22635-1	B-6	115	94	105
280-22635-1 MS	B-6	118	93	96
280-22635-1 MSD	B-6	113	88	92
LCS 280-97497/21	Lab Control Sample	97	75	78 X
MB 280-97497/22	Method Blank	103	80	92

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (36-120)	2FP (30-120)	TBP (50-120)	NBZ (45-120)	PHL (36-120)	TPH (52-120)
280-22635-1	B-6	81	90	101	88	92	66
LCS 280-95599/2-A	Lab Control Sample	79	75	92	86	81	86
LCSD 280-95599/3-A	Lab Control Sample Dup	83	82	96	89	84	89
MB 280-95599/1-A	Method Blank	84	86	94	98	91	107

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

TBP = 2,4,6-Tribromophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-97497/22

Matrix: Water

Analysis Batch: 97497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			11/22/11 19:59	1
Bromoform	ND		1.0	0.19	ug/L			11/22/11 19:59	1
Bromomethane	ND		2.0	0.21	ug/L			11/22/11 19:59	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			11/22/11 19:59	1
Chlorobenzene	ND		1.0	0.17	ug/L			11/22/11 19:59	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			11/22/11 19:59	1
Chloroethane	ND		2.0	0.41	ug/L			11/22/11 19:59	1
2-Chloroethyl vinyl ether	ND		3.0	0.74	ug/L			11/22/11 19:59	1
Chloroform	ND		1.0	0.16	ug/L			11/22/11 19:59	1
Chloromethane	ND		2.0	0.30	ug/L			11/22/11 19:59	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
1,2-Dichlorobenzene	ND		1.0	0.13	ug/L			11/22/11 19:59	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			11/22/11 19:59	1
1,1-Dichloroethane	ND		1.0	0.16	ug/L			11/22/11 19:59	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			11/22/11 19:59	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/22/11 19:59	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			11/22/11 19:59	1
1,1-Dichloroethene	ND		1.0	0.14	ug/L			11/22/11 19:59	1
1,2-Dichloropropane	ND		1.0	0.13	ug/L			11/22/11 19:59	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			11/22/11 19:59	1
Ethylbenzene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
Methylene Chloride	ND		5.0	0.32	ug/L			11/22/11 19:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/22/11 19:59	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/22/11 19:59	1
Toluene	ND		1.0	0.17	ug/L			11/22/11 19:59	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			11/22/11 19:59	1
1,1,2-Trichloroethane	ND		1.0	0.32	ug/L			11/22/11 19:59	1
Trichloroethene	ND		1.0	0.16	ug/L			11/22/11 19:59	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			11/22/11 19:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			11/22/11 19:59	1
Xylenes, Total	ND		2.0	0.19	ug/L			11/22/11 19:59	1
Acetone	ND		20	1.9	ug/L			11/22/11 19:59	1
Acrolein	ND		100	2.8	ug/L			11/22/11 19:59	1
Acrylonitrile	ND		100	1.4	ug/L			11/22/11 19:59	1
2-Butanone (MEK)	ND		20	1.8	ug/L			11/22/11 19:59	1
Carbon disulfide	ND		5.0	0.45	ug/L			11/22/11 19:59	1
1,2-Dibromo-3-Chloropropane	ND		10	0.81	ug/L			11/22/11 19:59	1
Ethylene Dibromide	ND		5.0	0.18	ug/L			11/22/11 19:59	1
1,2-Dichloroethene, Total	ND		5.0	0.15	ug/L			11/22/11 19:59	1
1,3-Dichloropropene, Total	ND		5.0	0.16	ug/L			11/22/11 19:59	1
1,4-Dioxane	ND		250	71	ug/L			11/22/11 19:59	1
Hexane	ND		5.0	0.42	ug/L			11/22/11 19:59	1
2-Hexanone	ND		20	1.4	ug/L			11/22/11 19:59	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.49	ug/L			11/22/11 19:59	1
Methyl tert-butyl ether	ND		20	0.25	ug/L			11/22/11 19:59	1
Styrene	ND		5.0	0.17	ug/L			11/22/11 19:59	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-97497/22

Matrix: Water

Analysis Batch: 97497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.17	ug/L			11/22/11 19:59	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/22/11 19:59	1
Dibromomethane	ND		5.0	0.17	ug/L			11/22/11 19:59	1
Vinyl acetate	ND		10	0.94	ug/L			11/22/11 19:59	1
m-Xylene & p-Xylene	ND		2.0	0.19	ug/L			11/22/11 19:59	1
o-Xylene	ND		1.0	0.19	ug/L			11/22/11 19:59	1
Total BTEX	ND		1.0	0.16	ug/L			11/22/11 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		11/22/11 19:59	1
1,2-Dichloroethane-d4 (Surr)	80		73 - 122		11/22/11 19:59	1
4-Bromofluorobenzene (Surr)	92		79 - 119		11/22/11 19:59	1

Lab Sample ID: LCS 280-97497/21

Matrix: Water

Analysis Batch: 97497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.63		ug/L		113	37 - 151
Dichlorobromomethane	5.00	5.39		ug/L		108	35 - 155
Bromoform	5.00	5.47		ug/L		109	45 - 169
Carbon tetrachloride	5.00	4.45		ug/L		89	70 - 140
Chlorobenzene	5.00	5.32		ug/L		106	37 - 160
Chlorodibromomethane	5.00	5.77		ug/L		115	53 - 149
Chloroethane	5.00	3.97		ug/L		79	14 - 230
2-Chloroethyl vinyl ether	5.00	3.76		ug/L		75	10 - 305
Chloroform	5.00	5.18		ug/L		104	51 - 138
Chloromethane	5.00	3.43		ug/L		69	10 - 273
1,4-Dichlorobenzene	5.00	5.31		ug/L		106	18 - 190
1,3-Dichlorobenzene	5.00	4.72		ug/L		94	59 - 156
1,2-Dichlorobenzene	5.00	4.88		ug/L		98	18 - 190
1,1-Dichloroethane	5.00	4.94		ug/L		99	59 - 155
1,2-Dichloroethane	5.00	4.63		ug/L		93	49 - 155
trans-1,2-Dichloroethene	5.00	5.02		ug/L		100	54 - 156
1,1-Dichloroethene	5.00	5.22		ug/L		104	10 - 234
1,2-Dichloropropane	5.00	5.19		ug/L		104	10 - 210
cis-1,3-Dichloropropene	5.00	5.46		ug/L		109	10 - 227
trans-1,3-Dichloropropene	5.00	5.38		ug/L		108	17 - 183
Ethylbenzene	5.00	5.09		ug/L		102	37 - 162
Methylene Chloride	5.00	5.85		ug/L		117	10 - 221
1,1,1,2-Tetrachloroethane	5.00	4.66		ug/L		93	46 - 157
Tetrachloroethene	5.00	5.37		ug/L		107	64 - 148
Toluene	5.00	5.12		ug/L		102	47 - 150
1,1,1-Trichloroethane	5.00	4.48		ug/L		90	52 - 162
1,1,1,2-Trichloroethane	5.00	5.12		ug/L		102	52 - 150
Trichloroethene	5.00	5.00		ug/L		100	71 - 157
Trichlorofluoromethane	5.00	3.16		ug/L		63	17 - 181
Vinyl chloride	5.00	3.55		ug/L		71	10 - 251
Xylenes, Total	15.0	14.8		ug/L		98	50 - 150

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-97497/21

Matrix: Water

Analysis Batch: 97497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	19.9	J	ug/L		99	42 - 170
1,3-Dichloropropene, Total	10.0	10.8		ug/L		108	17 - 183
Hexane	4.88	4.23	J	ug/L		87	69 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	75		73 - 122
4-Bromofluorobenzene (Surr)	78	X	79 - 119

Lab Sample ID: 280-22635-1 MS

Matrix: Water

Analysis Batch: 97497

Client Sample ID: B-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		5.00	5.70		ug/L		114	37 - 151
Dichlorobromomethane	ND		5.00	5.38		ug/L		108	35 - 155
Bromoform	ND		5.00	5.78		ug/L		116	45 - 169
Carbon tetrachloride	ND		5.00	4.63		ug/L		93	70 - 140
Chlorobenzene	ND		5.00	5.48		ug/L		110	37 - 160
Chlorodibromomethane	ND		5.00	5.90		ug/L		118	53 - 149
Chloroethane	ND		5.00	4.11		ug/L		82	14 - 230
2-Chloroethyl vinyl ether	ND		5.00	1.33	J	ug/L		27	10 - 305
Chloroform	0.21	J	5.00	5.56		ug/L		107	51 - 138
Chloromethane	ND		5.00	3.83		ug/L		77	10 - 273
1,4-Dichlorobenzene	ND		5.00	5.02		ug/L		100	18 - 190
1,3-Dichlorobenzene	ND		5.00	5.29		ug/L		106	59 - 156
1,2-Dichlorobenzene	ND		5.00	5.15		ug/L		103	18 - 190
1,1-Dichloroethane	ND		5.00	5.09		ug/L		102	59 - 155
1,2-Dichloroethane	ND		5.00	4.81		ug/L		96	49 - 155
trans-1,2-Dichloroethene	ND		5.00	5.11		ug/L		102	54 - 156
1,1-Dichloroethene	ND		5.00	5.45		ug/L		109	10 - 234
1,2-Dichloropropane	ND		5.00	5.31		ug/L		106	10 - 210
cis-1,3-Dichloropropene	ND		5.00	5.54		ug/L		111	10 - 227
trans-1,3-Dichloropropene	ND		5.00	5.49		ug/L		110	17 - 183
Ethylbenzene	ND		5.00	5.33		ug/L		107	37 - 162
Methylene Chloride	ND		5.00	5.56		ug/L		111	10 - 221
1,1,1,2-Tetrachloroethane	ND		5.00	5.14		ug/L		103	46 - 157
Tetrachloroethene	ND		5.00	5.60		ug/L		112	64 - 148
Toluene	ND		5.00	5.31		ug/L		106	47 - 150
1,1,1-Trichloroethane	ND		5.00	4.63		ug/L		93	52 - 162
1,1,2-Trichloroethane	ND		5.00	5.62		ug/L		112	52 - 150
Trichloroethene	ND		5.00	5.04		ug/L		101	71 - 157
Trichlorofluoromethane	ND		5.00	3.58		ug/L		72	17 - 181
Vinyl chloride	ND		5.00	3.95		ug/L		79	10 - 251
Xylenes, Total	0.48	J	15.0	15.6		ug/L		101	50 - 150
Acetone	2.5	J	20.0	20.2		ug/L		88	42 - 170
1,3-Dichloropropene, Total	ND		10.0	11.0		ug/L		110	17 - 183
Hexane	ND		4.88	4.64	J	ug/L		95	69 - 143

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-22635-1 MS

Matrix: Water

Analysis Batch: 97497

Client Sample ID: B-6

Prep Type: Total/NA

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	118		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		73 - 122
<i>4-Bromofluorobenzene (Surr)</i>	96		79 - 119

Lab Sample ID: 280-22635-1 MSD

Matrix: Water

Analysis Batch: 97497

Client Sample ID: B-6

Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Benzene	ND		5.00	5.96		ug/L		119	37 - 151	4	30
Dichlorobromomethane	ND		5.00	5.66		ug/L		113	35 - 155	5	30
Bromoform	ND		5.00	5.78		ug/L		116	45 - 169	0	30
Carbon tetrachloride	ND		5.00	4.71		ug/L		94	70 - 140	2	30
Chlorobenzene	ND		5.00	5.68		ug/L		114	37 - 160	4	30
Chlorodibromomethane	ND		5.00	6.05		ug/L		121	53 - 149	3	30
Chloroethane	ND		5.00	4.71		ug/L		94	14 - 230	14	30
2-Chloroethyl vinyl ether	ND		5.00	1.28	J	ug/L		26	10 - 305	4	45
Chloroform	0.21	J	5.00	5.74		ug/L		111	51 - 138	3	30
Chloromethane	ND		5.00	4.06		ug/L		81	10 - 273	6	30
1,4-Dichlorobenzene	ND		5.00	5.26		ug/L		105	18 - 190	5	30
1,3-Dichlorobenzene	ND		5.00	5.33		ug/L		107	59 - 156	1	30
1,2-Dichlorobenzene	ND		5.00	5.32		ug/L		106	18 - 190	3	30
1,1-Dichloroethane	ND		5.00	5.31		ug/L		106	59 - 155	4	30
1,2-Dichloroethane	ND		5.00	4.86		ug/L		97	49 - 155	1	30
trans-1,2-Dichloroethene	ND		5.00	5.32		ug/L		106	54 - 156	4	30
1,1-Dichloroethene	ND		5.00	5.82		ug/L		116	10 - 234	7	30
1,2-Dichloropropane	ND		5.00	5.49		ug/L		110	10 - 210	3	30
cis-1,3-Dichloropropene	ND		5.00	5.73		ug/L		115	10 - 227	3	30
trans-1,3-Dichloropropene	ND		5.00	5.64		ug/L		113	17 - 183	3	30
Ethylbenzene	ND		5.00	5.38		ug/L		108	37 - 162	1	30
Methylene Chloride	ND		5.00	5.75		ug/L		115	10 - 221	3	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.27		ug/L		105	46 - 157	2	30
Tetrachloroethene	ND		5.00	5.71		ug/L		114	64 - 148	2	30
Toluene	ND		5.00	5.47		ug/L		109	47 - 150	3	30
1,1,1-Trichloroethane	ND		5.00	4.75		ug/L		95	52 - 162	2	30
1,1,2-Trichloroethane	ND		5.00	5.51		ug/L		110	52 - 150	2	30
Trichloroethene	ND		5.00	5.19		ug/L		104	71 - 157	3	30
Trichlorofluoromethane	ND		5.00	3.81		ug/L		76	17 - 181	6	30
Vinyl chloride	ND		5.00	4.18		ug/L		84	10 - 251	5	30
Xylenes, Total	0.48	J	15.0	16.0		ug/L		104	50 - 150	3	30
Acetone	2.5	J	20.0	20.5		ug/L		90	42 - 170	2	20
1,3-Dichloropropene, Total	ND		10.0	11.4		ug/L		114	17 - 183	3	30
Hexane	ND		4.88	4.94	J	ug/L		101	69 - 143	6	20

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	113		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		73 - 122
<i>4-Bromofluorobenzene (Surr)</i>	92		79 - 119

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-95599/1-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.28	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzidine	ND		150	50	ug/L		11/10/11 09:15	11/15/11 01:40	1
1,2,4-Trichlorobenzene	ND		10	0.28	ug/L		11/10/11 09:15	11/15/11 01:40	1
Hexachlorobenzene	ND		10	0.66	ug/L		11/10/11 09:15	11/15/11 01:40	1
Bis(2-chloroethyl)ether	ND		10	0.41	ug/L		11/10/11 09:15	11/15/11 01:40	1
2-Chloronaphthalene	ND		10	0.26	ug/L		11/10/11 09:15	11/15/11 01:40	1
2-Chlorophenol	ND		10	2.0	ug/L		11/10/11 09:15	11/15/11 01:40	1
2-Methylphenol	ND		10	0.98	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,4,6-Trichlorophenol	ND		20	0.29	ug/L		11/10/11 09:15	11/15/11 01:40	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		11/10/11 09:15	11/15/11 01:40	1
Hexachloroethane	ND		10	2.1	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		11/10/11 09:15	11/15/11 01:40	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.23	ug/L		11/10/11 09:15	11/15/11 01:40	1
Fluoranthene	ND		10	0.20	ug/L		11/10/11 09:15	11/15/11 01:40	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		11/10/11 09:15	11/15/11 01:40	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,2'-Oxybis(1-chloropropane)	ND		10	0.28	ug/L		11/10/11 09:15	11/15/11 01:40	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		11/10/11 09:15	11/15/11 01:40	1
Hexachlorobutadiene	ND		10	3.3	ug/L		11/10/11 09:15	11/15/11 01:40	1
Hexachlorocyclopentadiene	ND		50	1.5	ug/L		11/10/11 09:15	11/15/11 01:40	1
Isophorone	ND		10	0.21	ug/L		11/10/11 09:15	11/15/11 01:40	1
Naphthalene	ND		10	0.29	ug/L		11/10/11 09:15	11/15/11 01:40	1
Nitrobenzene	ND		10	0.81	ug/L		11/10/11 09:15	11/15/11 01:40	1
2-Nitrophenol	ND		20	0.39	ug/L		11/10/11 09:15	11/15/11 01:40	1
2,4-Dinitrophenol	ND		60	10	ug/L		11/10/11 09:15	11/15/11 01:40	1
4-Nitrophenol	ND		50	1.2	ug/L		11/10/11 09:15	11/15/11 01:40	1
4,6-Dinitro-2-methylphenol	ND		60	4.0	ug/L		11/10/11 09:15	11/15/11 01:40	1
N-Nitrosodimethylamine	ND		10	0.29	ug/L		11/10/11 09:15	11/15/11 01:40	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		11/10/11 09:15	11/15/11 01:40	1
N-Nitrosodiphenylamine	ND		10	0.44	ug/L		11/10/11 09:15	11/15/11 01:40	1
Pentachlorophenol	ND		60	20	ug/L		11/10/11 09:15	11/15/11 01:40	1
Phenol	ND		10	2.0	ug/L		11/10/11 09:15	11/15/11 01:40	1
Bis(2-ethylhexyl) phthalate	2.59	J	10	0.56	ug/L		11/10/11 09:15	11/15/11 01:40	1
Butyl benzyl phthalate	ND		10	1.0	ug/L		11/10/11 09:15	11/15/11 01:40	1
Di-n-butyl phthalate	ND		10	1.2	ug/L		11/10/11 09:15	11/15/11 01:40	1
Di-n-octyl phthalate	ND		10	0.35	ug/L		11/10/11 09:15	11/15/11 01:40	1
Diethyl phthalate	ND		10	0.38	ug/L		11/10/11 09:15	11/15/11 01:40	1
Dimethyl phthalate	ND		10	0.21	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzo[a]anthracene	ND		10	0.35	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzo[a]pyrene	ND		10	0.31	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzo[b]fluoranthene	ND		10	0.53	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzo[k]fluoranthene	ND		10	0.46	ug/L		11/10/11 09:15	11/15/11 01:40	1
Anthracene	ND		10	0.42	ug/L		11/10/11 09:15	11/15/11 01:40	1
Acenaphthylene	ND		10	0.49	ug/L		11/10/11 09:15	11/15/11 01:40	1
Chrysene	ND		10	0.54	ug/L		11/10/11 09:15	11/15/11 01:40	1
Benzo[g,h,i]perylene	ND		10	0.50	ug/L		11/10/11 09:15	11/15/11 01:40	1

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-95599/1-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		10	0.31	ug/L		11/10/11 09:15	11/15/11 01:40	1
Phenanthrene	ND		10	0.26	ug/L		11/10/11 09:15	11/15/11 01:40	1
Dibenz(a,h)anthracene	ND		10	0.51	ug/L		11/10/11 09:15	11/15/11 01:40	1
Indeno[1,2,3-cd]pyrene	ND		10	0.65	ug/L		11/10/11 09:15	11/15/11 01:40	1
Pyrene	ND		10	0.37	ug/L		11/10/11 09:15	11/15/11 01:40	1
3 & 4 Methylphenol	ND		10	0.80	ug/L		11/10/11 09:15	11/15/11 01:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		36 - 120	11/10/11 09:15	11/15/11 01:40	1
2-Fluorophenol	86		30 - 120	11/10/11 09:15	11/15/11 01:40	1
2,4,6-Tribromophenol	94		50 - 120	11/10/11 09:15	11/15/11 01:40	1
Nitrobenzene-d5	98		45 - 120	11/10/11 09:15	11/15/11 01:40	1
Phenol-d5	91		36 - 120	11/10/11 09:15	11/15/11 01:40	1
Terphenyl-d14	107		52 - 120	11/10/11 09:15	11/15/11 01:40	1

Lab Sample ID: LCS 280-95599/2-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	80.0	64.1		ug/L		80	47 - 120
Benzidine	200	149	J	ug/L		74	10 - 218
1,2,4-Trichlorobenzene	80.0	61.4		ug/L		77	44 - 120
Hexachlorobenzene	80.0	66.0		ug/L		82	53 - 120
Bis(2-chloroethyl)ether	80.0	57.2		ug/L		71	35 - 120
2-Chloronaphthalene	80.0	62.2		ug/L		78	60 - 118
2-Chlorophenol	80.0	61.2		ug/L		76	34 - 120
2-Methylphenol	80.0	54.2		ug/L		68	38 - 120
2,4,6-Trichlorophenol	80.0	72.0		ug/L		90	51 - 120
3,3'-Dichlorobenzidine	80.0	54.7		ug/L		68	18 - 120
Hexachloroethane	80.0	51.0		ug/L		64	40 - 113
2,4-Dichlorophenol	80.0	68.6		ug/L		86	46 - 120
2,4-Dimethylphenol	80.0	50.1		ug/L		63	44 - 119
2,4-Dinitrotoluene	80.0	69.7		ug/L		87	57 - 120
2,6-Dinitrotoluene	80.0	67.7		ug/L		85	56 - 120
Fluoranthene	80.0	69.0		ug/L		86	58 - 120
4-Bromophenyl phenyl ether	80.0	65.4		ug/L		82	53 - 120
4-Chlorophenyl phenyl ether	80.0	67.9		ug/L		85	51 - 120
2,2'-Oxybis(1-chloropropane)	80.0	61.6		ug/L		77	37 - 120
Bis(2-chloroethoxy)methane	80.0	63.4		ug/L		79	50 - 120
Hexachlorobutadiene	80.0	60.5		ug/L		76	27 - 116
Hexachlorocyclopentadiene	80.0	20.2	J	ug/L		25	10 - 120
Isophorone	80.0	69.7		ug/L		87	50 - 120
Naphthalene	80.0	60.3		ug/L		75	37 - 120
Nitrobenzene	80.0	67.6		ug/L		85	46 - 120
2-Nitrophenol	80.0	68.0		ug/L		85	47 - 120
2,4-Dinitrophenol	80.0	68.7		ug/L		86	20 - 121
4-Nitrophenol	80.0	79.5		ug/L		99	53 - 120
4,6-Dinitro-2-methylphenol	80.0	70.0		ug/L		88	40 - 120

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-95599/2-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
N-Nitrosodimethylamine	80.0	64.3		ug/L		80	37 - 120	
N-Nitrosodi-n-propylamine	80.0	69.4		ug/L		87	50 - 120	
N-Nitrosodiphenylamine	68.3	51.5		ug/L		75	46 - 203	
Pentachlorophenol	80.0	63.4		ug/L		79	46 - 120	
Phenol	80.0	65.0		ug/L		81	37 - 112	
Bis(2-ethylhexyl) phthalate	80.0	65.8		ug/L		82	56 - 120	
Butyl benzyl phthalate	80.0	68.4		ug/L		86	53 - 120	
Di-n-butyl phthalate	80.0	70.0		ug/L		87	57 - 118	
Di-n-octyl phthalate	80.0	67.2		ug/L		84	56 - 120	
Diethyl phthalate	80.0	70.2		ug/L		88	59 - 114	
Dimethyl phthalate	80.0	69.0		ug/L		86	58 - 112	
Benzo[a]anthracene	80.0	65.4		ug/L		82	54 - 120	
Benzo[a]pyrene	80.0	54.3		ug/L		68	39 - 120	
Benzo[b]fluoranthene	80.0	58.7		ug/L		73	51 - 120	
Benzo[k]fluoranthene	80.0	63.1		ug/L		79	49 - 120	
Anthracene	80.0	64.9		ug/L		81	52 - 120	
Acenaphthylene	80.0	65.4		ug/L		82	33 - 120	
Chrysene	80.0	65.3		ug/L		82	51 - 120	
Benzo[g,h,i]perylene	80.0	65.3		ug/L		82	48 - 120	
Fluorene	80.0	65.5		ug/L		82	59 - 120	
Phenanthrene	80.0	66.7		ug/L		83	54 - 120	
Dibenz(a,h)anthracene	80.0	64.3		ug/L		80	45 - 120	
Indeno[1,2,3-cd]pyrene	80.0	66.2		ug/L		83	50 - 120	
Pyrene	80.0	64.9		ug/L		81	55 - 115	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	79		36 - 120
2-Fluorophenol	75		30 - 120
2,4,6-Tribromophenol	92		50 - 120
Nitrobenzene-d5	86		45 - 120
Phenol-d5	81		36 - 120
Terphenyl-d14	86		52 - 120

Lab Sample ID: LCSD 280-95599/3-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Acenaphthene	80.0	66.7		ug/L		83	47 - 120	4	30	
Benzidine	200	153		ug/L		77	10 - 218	3	50	
1,2,4-Trichlorobenzene	80.0	60.6		ug/L		76	44 - 120	1	35	
Hexachlorobenzene	80.0	67.7		ug/L		85	53 - 120	3	30	
Bis(2-chloroethyl)ether	80.0	58.3		ug/L		73	35 - 120	2	30	
2-Chloronaphthalene	80.0	64.9		ug/L		81	60 - 118	4	30	
2-Chlorophenol	80.0	64.5		ug/L		81	34 - 120	5	30	
2-Methylphenol	80.0	58.6		ug/L		73	38 - 120	8	35	
2,4,6-Trichlorophenol	80.0	71.7		ug/L		90	51 - 120	1	30	
3,3'-Dichlorobenzidine	80.0	58.1		ug/L		73	18 - 120	6	50	
Hexachloroethane	80.0	51.4		ug/L		64	40 - 113	1	52	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-95599/3-A

Matrix: Water

Analysis Batch: 96362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2,4-Dichlorophenol	80.0	67.9		ug/L		85	46 - 120	1	30	
2,4-Dimethylphenol	80.0	51.8		ug/L		65	44 - 119	3	35	
2,4-Dinitrotoluene	80.0	69.6		ug/L		87	57 - 120	0	35	
2,6-Dinitrotoluene	80.0	69.9		ug/L		87	56 - 120	3	30	
Fluoranthene	80.0	71.0		ug/L		89	58 - 120	3	30	
4-Bromophenyl phenyl ether	80.0	65.5		ug/L		82	53 - 120	0	34	
4-Chlorophenyl phenyl ether	80.0	69.5		ug/L		87	51 - 120	2	30	
2,2'-Oxybis(1-chloropropane)	80.0	64.3		ug/L		80	37 - 120	4	30	
Bis(2-chloroethoxy)methane	80.0	65.3		ug/L		82	50 - 120	3	30	
Hexachlorobutadiene	80.0	60.1		ug/L		75	27 - 116	1	41	
Hexachlorocyclopentadiene	80.0	21.4	J	ug/L		27	10 - 120	6	82	
Isophorone	80.0	69.6		ug/L		87	50 - 120	0	30	
Naphthalene	80.0	60.9		ug/L		76	37 - 120	1	30	
Nitrobenzene	80.0	71.2		ug/L		89	46 - 120	5	30	
2-Nitrophenol	80.0	65.9		ug/L		82	47 - 120	3	30	
2,4-Dinitrophenol	80.0	68.5		ug/L		86	20 - 121	0	61	
4-Nitrophenol	80.0	80.7		ug/L		101	53 - 120	1	42	
4,6-Dinitro-2-methylphenol	80.0	71.5		ug/L		89	40 - 120	2	55	
N-Nitrosodimethylamine	80.0	68.1		ug/L		85	37 - 120	6	30	
N-Nitrosodi-n-propylamine	80.0	74.0		ug/L		92	50 - 120	6	30	
N-Nitrosodiphenylamine	68.3	52.6		ug/L		77	46 - 203	2	50	
Pentachlorophenol	80.0	65.5		ug/L		82	46 - 120	3	30	
Phenol	80.0	67.6		ug/L		85	37 - 112	4	30	
Bis(2-ethylhexyl) phthalate	80.0	67.6		ug/L		84	56 - 120	3	30	
Butyl benzyl phthalate	80.0	72.0		ug/L		90	53 - 120	5	30	
Di-n-butyl phthalate	80.0	71.1		ug/L		89	57 - 118	2	30	
Di-n-octyl phthalate	80.0	70.0		ug/L		87	56 - 120	4	30	
Diethyl phthalate	80.0	71.8		ug/L		90	59 - 114	2	30	
Dimethyl phthalate	80.0	71.5		ug/L		89	58 - 112	4	30	
Benzo[a]anthracene	80.0	68.6		ug/L		86	54 - 120	5	30	
Benzo[a]pyrene	80.0	57.4		ug/L		72	39 - 120	6	73	
Benzo[b]fluoranthene	80.0	63.5		ug/L		79	51 - 120	8	90	
Benzo[k]fluoranthene	80.0	65.8		ug/L		82	49 - 120	4	50	
Anthracene	80.0	67.1		ug/L		84	52 - 120	3	30	
Acenaphthylene	80.0	68.2		ug/L		85	33 - 120	4	30	
Chrysene	80.0	66.4		ug/L		83	51 - 120	2	30	
Benzo[g,h,i]perylene	80.0	69.8		ug/L		87	48 - 120	7	64	
Fluorene	80.0	69.6		ug/L		87	59 - 120	6	30	
Phenanthrene	80.0	68.6		ug/L		86	54 - 120	3	30	
Dibenz(a,h)anthracene	80.0	68.4		ug/L		85	45 - 120	6	78	
Indeno[1,2,3-cd]pyrene	80.0	67.7		ug/L		85	50 - 120	2	73	
Pyrene	80.0	66.4		ug/L		83	55 - 115	2	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	83		36 - 120
2-Fluorophenol	82		30 - 120
2,4,6-Tribromophenol	96		50 - 120
Nitrobenzene-d5	89		45 - 120
Phenol-d5	84		36 - 120

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-95599/3-A
Matrix: Water
Analysis Batch: 96362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95599

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Terphenyl-d14	89		52 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-96029/1-A
Matrix: Water
Analysis Batch: 96491

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 96029

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND	^	100	18	ug/L		11/14/11 14:00	11/16/11 04:27	1
Iron	ND		100	22	ug/L		11/14/11 14:00	11/16/11 04:27	1

Lab Sample ID: LCS 280-96029/2-A
Matrix: Water
Analysis Batch: 96491

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 96029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Aluminum	2000	2100	^	ug/L		105	87 - 111	
Iron	1000	982		ug/L		98	89 - 115	

Lab Sample ID: 280-22635-1 MS
Matrix: Water
Analysis Batch: 96491

Client Sample ID: B-6
Prep Type: Total Recoverable
Prep Batch: 96029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Aluminum	130000		2000	201000	4	ug/L		3359	87 - 111	
Iron	200000		1000	216000	4	ug/L		1581	89 - 115	

Lab Sample ID: 280-22635-1 MSD
Matrix: Water
Analysis Batch: 96491

Client Sample ID: B-6
Prep Type: Total Recoverable
Prep Batch: 96029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD Limit
									Limits		
Aluminum	130000		2000	202000	4	ug/L		3398	87 - 111	0	20
Iron	200000		1000	216000	4	ug/L		1647	89 - 115	0	20

Lab Sample ID: MB 280-95389/1-B
Matrix: Water
Analysis Batch: 96488

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 95937

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND	^	100	18	ug/L		11/14/11 14:00	11/16/11 02:56	1
Iron	ND		100	22	ug/L		11/14/11 14:00	11/16/11 02:56	1

Lab Sample ID: LCS 280-95389/2-B
Matrix: Water
Analysis Batch: 96488

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 95937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Aluminum	2000	2040	^	ug/L		102	87 - 111	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-95389/2-B
Matrix: Water
Analysis Batch: 96488

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 95937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	951		ug/L		95	89 - 115

Lab Sample ID: 280-22635-1 MS
Matrix: Water
Analysis Batch: 96488

Client Sample ID: B-6
Prep Type: Potentially Dissolved
Prep Batch: 95937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	3700		2000	5640		ug/L		99	87 - 111
Iron	7400		1000	8310	4	ug/L		87	89 - 115

Lab Sample ID: 280-22635-1 MSD
Matrix: Water
Analysis Batch: 96488

Client Sample ID: B-6
Prep Type: Potentially Dissolved
Prep Batch: 95937

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	3700		2000	5750		ug/L		105	87 - 111	2	20
Iron	7400		1000	8410	4	ug/L		97	89 - 115	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-95999/1-A
Matrix: Water
Analysis Batch: 96344

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.16	ug/L		11/14/11 14:00	11/15/11 00:24	1
Arsenic	ND		5.0	0.50	ug/L		11/14/11 14:00	11/15/11 00:24	1
Barium	ND		1.0	0.38	ug/L		11/14/11 14:00	11/15/11 00:24	1
Beryllium	ND		1.0	0.15	ug/L		11/14/11 14:00	11/15/11 00:24	1
Cadmium	ND		1.0	0.040	ug/L		11/14/11 14:00	11/15/11 00:24	1
Chromium	ND		3.0	0.88	ug/L		11/14/11 14:00	11/15/11 00:24	1
Copper	0.435	J	2.0	0.20	ug/L		11/14/11 14:00	11/15/11 00:24	1
Lead	ND		1.0	0.10	ug/L		11/14/11 14:00	11/15/11 00:24	1
Manganese	ND		2.0	0.51	ug/L		11/14/11 14:00	11/15/11 00:24	1
Molybdenum	ND		2.0	0.040	ug/L		11/14/11 14:00	11/15/11 00:24	1
Nickel	ND		2.0	0.28	ug/L		11/14/11 14:00	11/15/11 00:24	1
Selenium	ND		5.0	1.0	ug/L		11/14/11 14:00	11/15/11 00:24	1
Silver	ND		1.0	0.020	ug/L		11/14/11 14:00	11/15/11 00:24	1
Thallium	ND		1.0	0.066	ug/L		11/14/11 14:00	11/15/11 00:24	1
Uranium	ND		1.0	0.030	ug/L		11/14/11 14:00	11/15/11 00:24	1
Zinc	ND		10	2.0	ug/L		11/14/11 14:00	11/15/11 00:24	1

Lab Sample ID: LCS 280-95999/2-A
Matrix: Water
Analysis Batch: 96344

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	40.0	41.6		ug/L		104	85 - 115
Arsenic	40.0	42.5		ug/L		106	89 - 111
Barium	40.0	42.3		ug/L		106	89 - 115

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-95999/2-A
Matrix: Water
Analysis Batch: 96344

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Beryllium	40.0	42.8		ug/L		107	85 - 115	
Cadmium	40.0	42.3		ug/L		106	89 - 111	
Chromium	40.0	40.3		ug/L		101	86 - 115	
Copper	40.0	40.5		ug/L		101	90 - 115	
Lead	40.0	42.5		ug/L		106	88 - 115	
Manganese	40.0	40.6		ug/L		101	87 - 115	
Molybdenum	40.0	41.9		ug/L		105	89 - 112	
Nickel	40.0	41.5		ug/L		104	86 - 115	
Selenium	40.0	43.8		ug/L		110	85 - 114	
Silver	40.0	41.6		ug/L		104	90 - 114	
Thallium	40.0	43.9		ug/L		110	86 - 115	
Uranium	40.0	44.3		ug/L		111	85 - 115	
Zinc	40.0	43.0		ug/L		108	88 - 115	

Lab Sample ID: 280-22635-1 MS
Matrix: Water
Analysis Batch: 96344

Client Sample ID: B-6
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	0.22	J	40.0	6.03	F	ug/L		15	85 - 115	
Arsenic	58		40.0	90.1		ug/L		79	79 - 120	
Barium	2100		40.0	2130	4	ug/L		56	89 - 115	
Beryllium	9.5		40.0	50.4		ug/L		102	85 - 115	
Cadmium	1.6		40.0	41.8		ug/L		101	89 - 111	
Chromium	93		40.0	128		ug/L		86	86 - 115	
Copper	120	B	40.0	157	F	ug/L		85	90 - 115	
Lead	100		40.0	139		ug/L		95	88 - 115	
Manganese	1300		40.0	1330	4	ug/L		38	87 - 115	
Molybdenum	6.2		40.0	26.0	F	ug/L		49	89 - 112	
Nickel	62		40.0	96.8		ug/L		88	86 - 115	
Selenium	31		40.0	57.8	F	ug/L		67	85 - 114	
Silver	0.45	J	40.0	37.9		ug/L		94	20 - 120	
Thallium	1.4		40.0	39.2		ug/L		95	86 - 115	
Uranium	48		40.0	88.9		ug/L		101	85 - 115	
Zinc	420		40.0	467	4	ug/L		109	88 - 115	

Lab Sample ID: 280-22635-1 MSD
Matrix: Water
Analysis Batch: 96344

Client Sample ID: B-6
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Antimony	0.22	J	40.0	5.68	F	ug/L		14	85 - 115	6	20	
Arsenic	58		40.0	92.1		ug/L		84	79 - 120	2	20	
Barium	2100		40.0	2150	4	ug/L		97	89 - 115	1	20	
Beryllium	9.5		40.0	50.2		ug/L		102	85 - 115	0	20	
Cadmium	1.6		40.0	42.2		ug/L		102	89 - 111	1	20	
Chromium	93		40.0	131		ug/L		93	86 - 115	2	20	
Copper	120	B	40.0	158	F	ug/L		88	90 - 115	1	20	
Lead	100		40.0	137		ug/L		91	88 - 115	1	20	
Manganese	1300		40.0	1350	4	ug/L		75	87 - 115	1	20	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-22635-1 MSD

Matrix: Water

Analysis Batch: 96344

Client Sample ID: B-6

Prep Type: Total Recoverable

Prep Batch: 95999

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Molybdenum	6.2		40.0	26.7	F	ug/L		51	89 - 112	3	20
Nickel	62		40.0	98.5		ug/L		92	86 - 115	2	20
Selenium	31		40.0	58.9	F	ug/L		69	85 - 114	2	20
Silver	0.45	J	40.0	38.3		ug/L		95	20 - 120	1	20
Thallium	1.4		40.0	38.7		ug/L		93	86 - 115	1	20
Uranium	48		40.0	87.9		ug/L		99	85 - 115	1	20
Zinc	420		40.0	479	4	ug/L		140	88 - 115	3	20

Lab Sample ID: 280-22687-D-1-B MS

Matrix: Water

Analysis Batch: 96344

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 95999

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Antimony	1.9	J	40.0	40.2		ug/L		96	85 - 115		
Arsenic	6.9		40.0	50.2		ug/L		108	79 - 120		
Barium	58		40.0	100		ug/L		105	89 - 115		
Beryllium	0.15	J	40.0	43.2		ug/L		108	85 - 115		
Cadmium	0.63	J	40.0	42.5		ug/L		105	89 - 111		
Chromium	5.3		40.0	45.4		ug/L		100	86 - 115		
Copper	20	B	40.0	60.1		ug/L		100	90 - 115		
Lead	30		40.0	71.6		ug/L		104	88 - 115		
Manganese	280		40.0	332	4	ug/L		120	87 - 115		
Molybdenum	28		40.0	71.3		ug/L		108	89 - 112		
Nickel	6.1		40.0	47.1		ug/L		102	86 - 115		
Selenium	ND		40.0	43.8		ug/L		110	85 - 114		
Silver	0.12	J	40.0	40.1		ug/L		100	20 - 120		
Thallium	0.076	J	40.0	42.4		ug/L		106	86 - 115		
Uranium	0.51	J	40.0	44.1		ug/L		109	85 - 115		
Zinc	130		40.0	179		ug/L		113	88 - 115		

Lab Sample ID: 280-22687-D-1-C MSD

Matrix: Water

Analysis Batch: 96344

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 95999

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Antimony	1.9	J	40.0	41.1		ug/L		98	85 - 115	2	20
Arsenic	6.9		40.0	49.2		ug/L		106	79 - 120	2	20
Barium	58		40.0	102		ug/L		110	89 - 115	2	20
Beryllium	0.15	J	40.0	43.5		ug/L		108	85 - 115	1	20
Cadmium	0.63	J	40.0	42.7		ug/L		105	89 - 111	0	20
Chromium	5.3		40.0	45.2		ug/L		100	86 - 115	0	20
Copper	20	B	40.0	59.9		ug/L		99	90 - 115	0	20
Lead	30		40.0	73.2		ug/L		108	88 - 115	2	20
Manganese	280		40.0	332	4	ug/L		120	87 - 115	0	20
Molybdenum	28		40.0	71.4		ug/L		109	89 - 112	0	20
Nickel	6.1		40.0	46.9		ug/L		102	86 - 115	0	20
Selenium	ND		40.0	44.0		ug/L		110	85 - 114	0	20
Silver	0.12	J	40.0	40.1		ug/L		100	20 - 120	0	20
Thallium	0.076	J	40.0	43.3		ug/L		108	86 - 115	2	20
Uranium	0.51	J	40.0	44.9		ug/L		111	85 - 115	2	20

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-22687-D-1-C MSD
Matrix: Water
Analysis Batch: 96344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 95999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	130		40.0	178		ug/L		110	88 - 115	1	20

Lab Sample ID: MB 280-95562/1-B
Matrix: Water
Analysis Batch: 96473

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 95930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.16	ug/L		11/14/11 06:30	11/15/11 16:50	1
Arsenic	ND		5.0	0.50	ug/L		11/14/11 06:30	11/15/11 16:50	1
Barium	ND		1.0	0.38	ug/L		11/14/11 06:30	11/15/11 16:50	1
Beryllium	ND		1.0	0.15	ug/L		11/14/11 06:30	11/15/11 16:50	1
Cadmium	0.0670	J	1.0	0.040	ug/L		11/14/11 06:30	11/15/11 16:50	1
Chromium	ND		3.0	0.88	ug/L		11/14/11 06:30	11/15/11 16:50	1
Copper	ND		2.0	0.20	ug/L		11/14/11 06:30	11/15/11 16:50	1
Lead	ND		1.0	0.10	ug/L		11/14/11 06:30	11/15/11 16:50	1
Manganese	ND		2.0	0.51	ug/L		11/14/11 06:30	11/15/11 16:50	1
Nickel	ND		2.0	0.28	ug/L		11/14/11 06:30	11/15/11 16:50	1
Selenium	ND		5.0	1.0	ug/L		11/14/11 06:30	11/15/11 16:50	1
Silver	ND		1.0	0.020	ug/L		11/14/11 06:30	11/15/11 16:50	1
Thallium	ND		1.0	0.066	ug/L		11/14/11 06:30	11/15/11 16:50	1
Uranium	ND		1.0	0.030	ug/L		11/14/11 06:30	11/15/11 16:50	1
Zinc	ND		10	2.0	ug/L		11/14/11 06:30	11/15/11 16:50	1

Lab Sample ID: LCS 280-95562/2-B
Matrix: Water
Analysis Batch: 96473

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 95930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	40.0	44.0		ug/L		110	85 - 115
Arsenic	40.0	43.3		ug/L		108	89 - 111
Barium	40.0	42.0		ug/L		105	89 - 115
Beryllium	40.0	39.5		ug/L		99	85 - 115
Cadmium	40.0	44.3		ug/L		111	89 - 111
Chromium	40.0	41.8		ug/L		104	86 - 115
Copper	40.0	41.8		ug/L		105	90 - 115
Lead	40.0	41.5		ug/L		104	88 - 115
Manganese	40.0	41.1		ug/L		103	87 - 115
Nickel	40.0	42.6		ug/L		106	86 - 115
Selenium	40.0	42.7		ug/L		107	85 - 114
Silver	40.0	42.0		ug/L		105	90 - 114
Thallium	40.0	41.5		ug/L		104	86 - 115
Uranium	40.0	41.0		ug/L		102	85 - 115
Zinc	40.0	43.5		ug/L		109	88 - 115

Lab Sample ID: 280-22698-A-1-D MS
Matrix: Water
Analysis Batch: 96473

Client Sample ID: Matrix Spike
Prep Type: Potentially Dissolved
Prep Batch: 95930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		40.0	42.7		ug/L		107	85 - 115

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-22698-A-1-D MS

Matrix: Water

Analysis Batch: 96473

Client Sample ID: Matrix Spike

Prep Type: Potentially Dissolved

Prep Batch: 95930

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Arsenic	0.50	J	40.0	40.1		ug/L		99	79 - 120	
Barium	51		40.0	92.9		ug/L		105	89 - 115	
Beryllium	ND		40.0	41.0		ug/L		103	85 - 115	
Cadmium	ND		40.0	41.7		ug/L		104	89 - 111	
Chromium	ND		40.0	41.0		ug/L		103	86 - 115	
Copper	1.3	J	40.0	42.2		ug/L		102	90 - 115	
Lead	ND		40.0	41.7		ug/L		104	88 - 115	
Manganese	0.92	J	40.0	43.5		ug/L		107	87 - 115	
Nickel	0.68	J	40.0	41.0		ug/L		101	86 - 115	
Selenium	47		40.0	92.3		ug/L		113	85 - 114	
Silver	ND		40.0	40.5		ug/L		101	20 - 120	
Thallium	ND		40.0	41.6		ug/L		104	86 - 115	
Uranium	180		40.0	231	4	ug/L		117	85 - 115	
Zinc	9.8	J	40.0	49.6		ug/L		100	88 - 115	

Lab Sample ID: 280-22698-A-1-E MSD

Matrix: Water

Analysis Batch: 96473

Client Sample ID: Matrix Spike Duplicate

Prep Type: Potentially Dissolved

Prep Batch: 95930

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Antimony	ND		40.0	37.8		ug/L		95	85 - 115	12	20	
Arsenic	0.50	J	40.0	41.9		ug/L		104	79 - 120	5	20	
Barium	51		40.0	94.6		ug/L		109	89 - 115	2	20	
Beryllium	ND		40.0	41.6		ug/L		104	85 - 115	1	20	
Cadmium	ND		40.0	41.0		ug/L		102	89 - 111	2	20	
Chromium	ND		40.0	42.4		ug/L		106	86 - 115	3	20	
Copper	1.3	J	40.0	42.2		ug/L		102	90 - 115	0	20	
Lead	ND		40.0	42.2		ug/L		105	88 - 115	1	20	
Manganese	0.92	J	40.0	42.7		ug/L		105	87 - 115	2	20	
Nickel	0.68	J	40.0	41.7		ug/L		103	86 - 115	2	20	
Selenium	47		40.0	93.6	F	ug/L		116	85 - 114	1	20	
Silver	ND		40.0	40.3		ug/L		101	20 - 120	1	20	
Thallium	ND		40.0	41.1		ug/L		103	86 - 115	1	20	
Uranium	180		40.0	232	4	ug/L		119	85 - 115	0	20	
Zinc	9.8	J	40.0	52.7		ug/L		107	88 - 115	6	20	

Lab Sample ID: MB 280-95839/1-D

Matrix: Water

Analysis Batch: 97852

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 97606

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Molybdenum	ND		2.0	0.040	ug/L		11/28/11 08:30	11/28/11 20:27	1

Lab Sample ID: LCS 280-95839/2-D

Matrix: Water

Analysis Batch: 97852

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 97606

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Molybdenum	40.0	40.7		ug/L		102	89 - 112	

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 280-95839/4-C
Matrix: Water
Analysis Batch: 97852

Client Sample ID: Lab Control Sample Dup
Prep Type: Potentially Dissolved
Prep Batch: 97606

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	40.0	40.5		ug/L		101	89 - 112	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-95698/1-A
Matrix: Water
Analysis Batch: 96304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		11/14/11 12:45	11/14/11 18:31	1

Lab Sample ID: LCS 280-95698/2-A
Matrix: Water
Analysis Batch: 96304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.00		ug/L		100	90 - 110

Lab Sample ID: 280-22621-A-1-B MS
Matrix: Water
Analysis Batch: 96304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.031	J	5.00	4.93		ug/L		98	80 - 120

Lab Sample ID: 280-22621-A-1-C MSD
Matrix: Water
Analysis Batch: 96304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.031	J	5.00	4.61		ug/L		92	80 - 120	7	10

Lab Sample ID: MB 280-95839/1-C
Matrix: Water
Analysis Batch: 96985

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 96683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		11/17/11 10:30	11/17/11 19:32	1

Lab Sample ID: LCS 280-95839/2-C
Matrix: Water
Analysis Batch: 96985

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 96683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.00		ug/L		100	90 - 110

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 280-95839/5-B
Matrix: Water
Analysis Batch: 96985

Client Sample ID: Lab Control Sample Dup
Prep Type: Potentially Dissolved
Prep Batch: 96683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	5.00	5.07		ug/L		101	90 - 110	1	10

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 280-95680/5
Matrix: Water
Analysis Batch: 95680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/10/11 11:04	1

Lab Sample ID: LCS 280-95680/3
Matrix: Water
Analysis Batch: 95680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.100	0.108		mg/L		108	85 - 115

Lab Sample ID: LCSD 280-95680/4
Matrix: Water
Analysis Batch: 95680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.109		mg/L		109	85 - 115	1	20

Lab Sample ID: 280-22635-1 MS
Matrix: Water
Analysis Batch: 95680

Client Sample ID: B-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0061	J	0.100	0.109		mg/L		103	75 - 125

Lab Sample ID: 280-22635-1 MSD
Matrix: Water
Analysis Batch: 95680

Client Sample ID: B-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.0061	J	0.100	0.109		mg/L		103	75 - 125	1	20

Lab Sample ID: 280-22635-1 DU
Matrix: Water
Analysis Batch: 95680

Client Sample ID: B-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	0.0061	J	0.100	0.00608	J	mg/L		0	20

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: 7196A - Chromium, Trivalent (Colorimetric)

Lab Sample ID: MB 280-96878/1
Matrix: Water
Analysis Batch: 96878

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	ND		0.020	0.020	mg/L			11/18/11 07:49	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-96342/1
Matrix: Water
Analysis Batch: 96342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			11/15/11 09:43	1

Lab Sample ID: LCS 280-96342/2
Matrix: Water
Analysis Batch: 96342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	486		mg/L		97	86 - 110

Lab Sample ID: LCSD 280-96342/3
Matrix: Water
Analysis Batch: 96342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	500	484		mg/L		97	86 - 110	0	20

Lab Sample ID: 280-22623-A-1 DU
Matrix: Water
Analysis Batch: 96342

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	450		450		mg/L		0.9	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-96214/1
Matrix: Water
Analysis Batch: 96214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			11/14/11 13:37	1

Lab Sample ID: LCS 280-96214/2
Matrix: Water
Analysis Batch: 96214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	102		mg/L		102	86 - 114

QC Sample Results

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCSD 280-96214/3
Matrix: Water
Analysis Batch: 96214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	92.0		mg/L		92	86 - 114	10	20

Lab Sample ID: 280-22677-A-8 DU
Matrix: Water
Analysis Batch: 96214

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	3.2	J	4.80		mg/L		40	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

GC/MS VOA

Analysis Batch: 97497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	624	
280-22635-1 MS	B-6	Total/NA	Water	624	
280-22635-1 MSD	B-6	Total/NA	Water	624	
LCS 280-97497/21	Lab Control Sample	Total/NA	Water	624	
MB 280-97497/22	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 95599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	625	
LCS 280-95599/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 280-95599/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 280-95599/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 96362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	625	95599
LCS 280-95599/2-A	Lab Control Sample	Total/NA	Water	625	95599
LCSD 280-95599/3-A	Lab Control Sample Dup	Total/NA	Water	625	95599
MB 280-95599/1-A	Method Blank	Total/NA	Water	625	95599

Metals

Prep Batch: 95698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22621-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	
280-22621-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	
280-22635-1	B-6	Total/NA	Water	245.1	
LCS 280-95698/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 280-95698/1-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 95930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.8	
280-22698-A-1-D MS	Matrix Spike	Potentially Dissolved	Water	200.8	
280-22698-A-1-E MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	
LCS 280-95562/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	
MB 280-95562/1-B	Method Blank	Potentially Dissolved	Water	200.8	

Prep Batch: 95937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.7	
280-22635-1 MS	B-6	Potentially Dissolved	Water	200.7	
280-22635-1 MSD	B-6	Potentially Dissolved	Water	200.7	
LCS 280-95389/2-B	Lab Control Sample	Potentially Dissolved	Water	200.7	
MB 280-95389/1-B	Method Blank	Potentially Dissolved	Water	200.7	

Prep Batch: 95999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total Recoverable	Water	200.8	
280-22635-1 MS	B-6	Total Recoverable	Water	200.8	

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Metals (Continued)

Prep Batch: 95999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1 MSD	B-6	Total Recoverable	Water	200.8	
280-22687-D-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
280-22687-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
LCS 280-95999/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 280-95999/1-A	Method Blank	Total Recoverable	Water	200.8	

Prep Batch: 96029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total Recoverable	Water	200.7	
280-22635-1 MS	B-6	Total Recoverable	Water	200.7	
280-22635-1 MSD	B-6	Total Recoverable	Water	200.7	
LCS 280-96029/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 280-96029/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 96304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22621-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	95698
280-22621-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	95698
280-22635-1	B-6	Total/NA	Water	245.1	95698
LCS 280-95698/2-A	Lab Control Sample	Total/NA	Water	245.1	95698
MB 280-95698/1-A	Method Blank	Total/NA	Water	245.1	95698

Analysis Batch: 96344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total Recoverable	Water	200.8	95999
280-22635-1 MS	B-6	Total Recoverable	Water	200.8	95999
280-22635-1 MSD	B-6	Total Recoverable	Water	200.8	95999
280-22687-D-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	95999
280-22687-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	95999
LCS 280-95999/2-A	Lab Control Sample	Total Recoverable	Water	200.8	95999
MB 280-95999/1-A	Method Blank	Total Recoverable	Water	200.8	95999

Analysis Batch: 96473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.8	95930
280-22698-A-1-D MS	Matrix Spike	Potentially Dissolved	Water	200.8	95930
280-22698-A-1-E MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	95930
LCS 280-95562/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	95930
MB 280-95562/1-B	Method Blank	Potentially Dissolved	Water	200.8	95930

Analysis Batch: 96488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.7 Rev 4.4	95937
280-22635-1 MS	B-6	Potentially Dissolved	Water	200.7 Rev 4.4	95937
280-22635-1 MSD	B-6	Potentially Dissolved	Water	200.7 Rev 4.4	95937
LCS 280-95389/2-B	Lab Control Sample	Potentially Dissolved	Water	200.7 Rev 4.4	95937
MB 280-95389/1-B	Method Blank	Potentially Dissolved	Water	200.7 Rev 4.4	95937

Analysis Batch: 96491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total Recoverable	Water	200.7 Rev 4.4	96029
280-22635-1 MS	B-6	Total Recoverable	Water	200.7 Rev 4.4	96029

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Metals (Continued)

Analysis Batch: 96491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1 MSD	B-6	Total Recoverable	Water	200.7 Rev 4.4	96029
LCS 280-96029/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	96029
MB 280-96029/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	96029

Prep Batch: 96683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	245.1	
LCS 280-95839/2-C	Lab Control Sample	Potentially Dissolved	Water	245.1	
LCSD 280-95839/5-B	Lab Control Sample Dup	Potentially Dissolved	Water	245.1	
MB 280-95839/1-C	Method Blank	Potentially Dissolved	Water	245.1	

Analysis Batch: 96985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	245.1	96683
LCS 280-95839/2-C	Lab Control Sample	Potentially Dissolved	Water	245.1	96683
LCSD 280-95839/5-B	Lab Control Sample Dup	Potentially Dissolved	Water	245.1	96683
MB 280-95839/1-C	Method Blank	Potentially Dissolved	Water	245.1	96683

Prep Batch: 97606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.8	
LCS 280-95839/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	
LCSD 280-95839/4-C	Lab Control Sample Dup	Potentially Dissolved	Water	200.8	
MB 280-95839/1-D	Method Blank	Potentially Dissolved	Water	200.8	

Analysis Batch: 97852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Potentially Dissolved	Water	200.8	97606
LCS 280-95839/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	97606
LCSD 280-95839/4-C	Lab Control Sample Dup	Potentially Dissolved	Water	200.8	97606
MB 280-95839/1-D	Method Blank	Potentially Dissolved	Water	200.8	97606

General Chemistry

Analysis Batch: 95680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	7196A	
280-22635-1 DU	B-6	Total/NA	Water	7196A	
280-22635-1 MS	B-6	Total/NA	Water	7196A	
280-22635-1 MSD	B-6	Total/NA	Water	7196A	
LCS 280-95680/3	Lab Control Sample	Total/NA	Water	7196A	
LCSD 280-95680/4	Lab Control Sample Dup	Total/NA	Water	7196A	
MB 280-95680/5	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 96214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	SM 2540D	
280-22677-A-8 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 280-96214/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-96214/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 280-96214/1	Method Blank	Total/NA	Water	SM 2540D	

QC Association Summary

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

General Chemistry (Continued)

Analysis Batch: 96342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22623-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
280-22635-1	B-6	Total/NA	Water	SM 2540C	
LCS 280-96342/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-96342/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
MB 280-96342/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 96878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22635-1	B-6	Total/NA	Water	7196A	
MB 280-96878/1	Method Blank	Total/NA	Water	7196A	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Pinyon Env Eng Resources, Inc.
Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Client Sample ID: B-6

Lab Sample ID: 280-22635-1

Date Collected: 11/09/11 20:05

Matrix: Water

Date Received: 11/10/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	97497	11/22/11 20:22	TW	TAL DEN
Total/NA	Prep	625			1053.3 mL	1000 uL	95599	11/10/11 11:30	JCV	TAL DEN
Total/NA	Analysis	625		1			96362	11/15/11 08:20	MGH	TAL DEN
Total/NA	Prep	245.1			30 mL	30 mL	95698	11/14/11 12:45	BLR	TAL DEN
Total/NA	Analysis	245.1		1			96304	11/14/11 18:58	BLR	TAL DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	95999	11/14/11 14:00	JM	TAL DEN
Total Recoverable	Analysis	200.8		1			96344	11/15/11 00:30	TEL	TAL DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	95930	11/14/11 06:30	CLI	TAL DEN
Potentially Dissolved	Analysis	200.8		1			96473	11/15/11 17:06	LT	TAL DEN
Potentially Dissolved	Prep	200.7			50 mL	50 mL	95937	11/14/11 14:00	JM	TAL DEN
Potentially Dissolved	Analysis	200.7 Rev 4.4		1			96488	11/16/11 03:06	JKH	TAL DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	96029	11/14/11 14:00	JM	TAL DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			96491	11/16/11 04:31	JKH	TAL DEN
Potentially Dissolved	Prep	245.1			30 mL	30 mL	96683	11/17/11 10:30	BLR	TAL DEN
Potentially Dissolved	Analysis	245.1		1			96985	11/17/11 19:44	BLR	TAL DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	97606	11/28/11 08:30	JKH	TAL DEN
Potentially Dissolved	Analysis	200.8		1			97852	11/28/11 20:35	TEL	TAL DEN
Total/NA	Analysis	7196A		1			95680	11/10/11 11:04	JMT	TAL DEN
Total/NA	Analysis	SM 2540D		1	4 mL	250 mL	96214	11/14/11 13:37	PAG	TAL DEN
Total/NA	Analysis	SM 2540C		1	3 mL	100 mL	96342	11/15/11 09:43	BJD	TAL DEN
Total/NA	Analysis	7196A		1	1.0 mL	1.0 mL	96878	11/18/11 07:49	DG	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: Pinyon Env Eng Resources, Inc.
 Project/Site: US 6 and BNSF

TestAmerica Job ID: 280-22635-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Login Sample Receipt Checklist

Client: Pinyon Env Eng Resources, Inc.

Job Number: 280-22635-1

Login Number: 22635

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	NO SAMPLE TIME ON COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



1. North Side of Bridge, Looking East



2. Pedestrian Walkway on the North Side of Bridge

3. Looking at the West Side of Bridge



4. Transient Belongings Under Bridge



5. Underside of Bridge on the South Side



6. Caulking on Bridge Pier at the South End





January 23, 2013

Marvinetta Hartwig
Hartwig & Associates, Inc.
188 Inverness Drive West, Suite 675
Englewood, CO 80112

**Subject: Hazardous Material Site Investigation
U.S. Highway 6 Bridges at Interstate 25 and BNSF Railroad, Denver, Colorado
RMC Consultants Project E12-023-154**

Dear Ms. Hartwig:

RMC Consultants, Inc. (RMC) is pleased to provide Hartwig & Associates, Inc. (Hartwig) with this letter report to present the observations and results from a Hazardous Material Site Investigation (SI) performed in December 2012 in accordance with RMC's December 2012 Work Plan. The SI was conducted as a supplemental study in connection with the preconstruction and redevelopment of the U.S. Highway 6 (6th Avenue) and I-25 Bridge and 6th Avenue and Burlington Northern Santa Fe (BNSF) Railroad Bridge in the City and County of Denver. All work was performed within the Colorado Department of Transportation (CDOT) right-of-way (see Figure 1).

Limited Subsurface Investigation

The SI field work took place on December 20, and 26, 2012, and included the installation of four boreholes/temporary monitor wells adjacent to the planned bridge construction activity. The drilling of the borings was supervised and logged by an RMC professional geologist. Drilling work was performed by Site Services Inc., of Golden, Colorado. RMC personnel logged the borings to record the lithology encountered and any evidence of petroleum hydrocarbon impact, evidence of chemical impacts, and the depth to groundwater. Borehole logs are included in Attachment 1.

RMC personnel supervised the installation and completion of the temporary groundwater monitoring well in each of the borings, which were selected based on their location adjacent to the planned bridge construction activity. Soils collected during borehole advancement were examined for evidence of staining or odor, and were screened using a photoionization detector (PID) to assess the presence of volatile organic compounds. No evidence of petroleum hydrocarbon or chemical impacts was observed in any of the soil borings.

Soil samples were collected from three intervals in each of the boreholes: 0 to 2 feet, an intermediate depth, and at the vadose zone and groundwater interface. Samples were placed into laboratory provided glass sample jars and submitted to TestAmerica's Laboratory in Arvada, Colorado, for the analysis of volatile organic compounds (VOCs) by Method SW 8260B, total concentrations of eight Resource Conservation and Recovery Act (RCRA) Metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury) by SW 6010B/SW 7471A, and polychlorinated biphenyles (PCBs) by

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Method SW 8082, and herbicides and pesticides by Methods 8151A/8081A. An additional soil sample was collected from the uppermost interval (0 to 2 feet) in each borehole and was submitted to TestAmerica for asbestos analysis by polarized light microscopy (PLM) Method 600/R-93-116. The sample jars were labeled with the date, time, analytical parameters, and were placed into coolers and stored on ice. The soil samples were transported to TestAmerica's laboratory following chain-of-custody protocols. The asbestos samples were submitted to TestAmerica but analyzed by EMLab P&K in Costa Mesa, California.

Following completion of the borehole to a depth of at least 10 feet into the water table, temporary monitoring wells were constructed through the hollow-stem augers. The wells were constructed using 2-inch diameter schedule 40 polyvinyl chloride (PVC) 0.010-inch factory slotted screen and 2-inch diameter schedule 40 PVC blank pipe casing. Fifteen feet of well screen was used in each well. The annular space around the screen was filled with 10-20 Colorado Silica Sand. The sand pack was placed from the bottom of the well to a level two feet above the top of the well screen. The remaining annular space in the wells around the blank PVC pipe casing was filled with 3/8-diameter bentonite chips. Bentonite was placed from the sand pack up to the ground surface. Wells were quickly developed and sampled immediately thereafter. Groundwater sampling logs are included in Attachment 1. The locations of each of the boreholes/temporary wells were located with a Trimble GeoExplorer GPS. The wells were abandoned per the requirements of the State Engineer's Office immediately following collection of groundwater samples. A notice of intent was filed with the Colorado State Engineer's Office. Well Abandonment Reports were also filed with the Colorado State Engineer's Office. All drill cuttings (8 55-gallon drums), purge water, and decontamination water (3 55-gallon drums) investigative derived waste (IDW) was removed from the site as required by CDOT and temporarily staged at RMC's office until analytical results can be used to characterize the waste for disposal. Soil IDW will be transported and disposed of at the Front Range Landfill in Erie, Colorado. Water IDW will be transported and disposed of at the Affiliated Wastewater Treatment facility in Denver, Colorado.

Groundwater Sampling

Groundwater samples were collected from the four temporary monitoring wells on December 20 and 26, 2012. Prior to groundwater sampling, the depth to groundwater was measured using a water level indicator in each of the monitoring wells relative to the ground surface. The depth to groundwater ranged from 13 feet below ground surface (bgs) (NE-02) to 40 feet bgs (NW-02). Field parameters including temperature, pH, specific conductance, dissolved oxygen, and oxidation-reduction potential were measured in each of the wells. A summary of monitoring well field parameters is included in Table 1 and groundwater sampling logs are included in Attachment 1. In accordance with the Work Plan, the monitoring wells were minimally developed (i.e., purged with a submersible pump for approximately 30 minutes prior to sampling). Groundwater flow is expected to be west-northwest directed toward and parallel to the flow in the South Platte River.

The groundwater samples were collected using submersible pump at a reduced flow rate. The samples were placed into laboratory provided containers and were shipped on ice to TestAmerica's Laboratory in Arvada, Colorado, for the analysis following chain-of-custody protocols. The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) by Method SW 8260B, total and dissolved concentrations of eight Resource Conservation and Recovery Act (RCRA) Metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury) by SW 6010B/SW 7470A, and Semi-volatile Organic Compounds (SVOCs) by Method SW 8270C, Oil and Grease by Methods 1664A, pH, Total Suspended Solids (TSS), and Gross Alpha and Gross Beta by Method 900.0.

Soil Analytical Results (Bridge F-16-EJ)

The laboratory analytical results for the soil samples collected at bridge F-16-EJ indicated that four VOC concentrations were detected above the laboratory reporting limit (RL) in three soil samples. Acetone was reported at a concentration of 78 micrograms/kilogram ($\mu\text{g}/\text{kg}$) in NW-02 at 25 feet bgs and at 36 $\mu\text{g}/\text{kg}$ in SE-01 at 34 feet bgs. Methylcyclohexane was reported at a concentration of 12 $\mu\text{g}/\text{kg}$ in NW-02 at 25 feet bgs and at 11 $\mu\text{g}/\text{kg}$ in NW02 at 37 feet bgs. Analytical results for 2-butanone (methyl ethyl ketone [MEK]), carbon disulfide, methyl acetate, and cyclohexane results are qualified with a "J" indicating that they are an estimated concentration, detected above the method detection limits (MDL), but less than the laboratory reporting limits (RL). Acetone and bromoform (common laboratory contaminants) were detected in three samples and in the associated method blank and are qualified with a "B". The VOC sample results qualified with a "B" have been reviewed and further qualified as non-detect. All VOCs detected are below the state regulatory limits for these compounds in soils.

The VOC detections for the F-16-EJ bridge are shown on Table 2 and are compared to the Colorado Soil Evaluation Values (CSEV) established by the Colorado Department of Public Health and Environment (CDPHE) as soil cleanup standards (July 2011) as part of the Voluntary Cleanup Program. The most stringent soil cleanup standards are the residential soil standards which are based on toxicology data and potential routes of exposure.

The soil samples were also submitted for analysis of eight RCRA metals. The results indicated that arsenic was detected at concentrations that exceed the residential soil standard in all six of the soil samples submitted from the F-16-EJ bridge boreholes. These arsenic concentrations are within the range of naturally occurring arsenic in the soils as detailed in *Risk Management Guidance for Evaluating Arsenic Concentrations in Soil – Second Edition* (CDPHE, 2011). The highest arsenic concentration was 6.1 mg/kg in boring NW-02 at 37 feet bgs. The laboratory reported that concentrations of barium were detected in all six soil samples, but none of the concentrations exceed the residential soil standard of 15,000 mg/kg. The barium results ranged from 50 mg/kg (SE-01 at 0 feet) to 400 mg/kg (SE-01 at 24 feet). Cadmium concentrations were reported above the MDL, but below the laboratory reporting limit in five of the six soil samples, and are qualified with a "J" as an estimated value. The laboratory reported that cadmium was detected above the MDL in sample NW-02 at 0 – 2 feet bgs, however, all of the cadmium results are well below the CSEV residential soil standard of 70 mg/kg. Chromium and lead were detected in all six soil samples at concentrations ranging from 11 to 17 mg/kg and 11 to 220 mg/kg, respectively, which are below their respective CSEV residential soil standards of 120,000 and 400, respectively. Selenium concentrations were reported above the MDL, but below the laboratory reporting limit in two of the six soil samples, and are qualified with a "J" as an estimated value. The remaining four selenium values were not detected above the MDL. All of the selenium results are below the CSEV residential soil standard of 390 mg/kg. Mercury concentrations were reported above the MDL, but below the laboratory reporting limit in three of the six soil samples, and are qualified with a "J" as an estimated value. The remaining three mercury values were not detected above the MDL. All of the mercury results are below the CSEV residential soil standard of 13 mg/kg.

The laboratory reported that concentrations of 4,4-DDT (3.2 $\mu\text{g}/\text{kg}$), chlordane (0.70 $\mu\text{g}/\text{kg}$), and PCB-1260 (24 $\mu\text{g}/\text{kg}$) were detected in the soil sample submitted from the surface sample at NW-02. These pesticides and PCB concentrations are below the CSEV residential soil limits of 1,700, 1,600, and 220 $\mu\text{g}/\text{kg}$, respectively. No herbicides were detected above their respective MDLs in the six F-16-EJ bridge soil samples.

The laboratory reported that asbestos was not detected in the two surface soil samples from NW-02 and SE-01. A summary of soil analytical results from Bridge F-16-EJ is included as Table 2. Laboratory data sheets are included in Attachment 2.

Soil Analytical Results (Bridge F-16-DU)

The laboratory analytical results for the soil samples collected at Bridge F-16-DU indicated that no VOC compounds were detected above the laboratory RL. Acetone, methylene chloride, and tetrachloroethene results are qualified with a "J" indicating that they are an estimated concentration, detected above the MDL, but less than the laboratory RL. Bromoform (common laboratory contaminant), cyclohexane, and methylcyclohexane were detected in three samples and in the associated method blank and are qualified with a "B". The VOC sample results qualified with a "B" have been reviewed and further qualified as non-detect. All VOCs detected are below the state regulatory limits for these compounds in soils. The VOC detections for the F-16-DU Bridge are shown on Table 3 and are compared to the CSEV established by the CDPHE as soil cleanup standards (July 2011).

The soil samples were also submitted for analysis of eight RCRA metals. The results indicated that arsenic was detected at concentrations exceeding the residential soil standard in five of the six soil samples submitted from the F-16-DU Bridge boreholes. These arsenic concentrations are within the range of naturally occurring arsenic in the soils as detailed in *Risk Management Guidance for Evaluating Arsenic Concentrations in Soil – Second Edition* (CDPHE, 2011). The highest arsenic concentration was 6 mg/kg in boring SW-01 at 4 feet bgs and boring NE-02 at 0 feet bgs. The laboratory reported that concentrations of barium were detected in all six soil samples, but none of the concentrations exceed the residential soil standard of 15,000 mg/kg. The barium results ranged from 19 mg/kg (SW-01 at 11 feet) to 330 mg/kg (NE-02 at 0 feet). Cadmium concentrations were reported above the MDL, but below the laboratory reporting limit in five of the six soil samples, and are qualified with a "J" as an estimated value. All of the cadmium results are well below the CSEV residential soil standard of 70 mg/kg. Chromium and lead were detected in all six soil samples at concentrations ranging from 1.1 to 10 mg/kg and 1.5 to 170 mg/kg, respectively, which are below their respective CSEV residential soil standards of 120,000 and 400, respectively. Selenium concentrations were reported above the MDL, but below the laboratory reporting limit in two of the six soil samples, and are qualified with a "J" as an estimated value. The remaining four selenium values were not detected above the MDL. All of the selenium results are below the CSEV residential soil standard of 390 mg/kg. Mercury was detected in three soil samples at concentrations ranging from 0.019 to 0.58 mg/kg. Mercury concentrations were reported above the MDL, but below the laboratory reporting limit in two of the six soil samples, and are qualified with a "J" as an estimated value. The laboratory reported that Mercury was not detected above the MDL in the one remaining soil sample, and all of the mercury results are below the CSEV residential soil standard of 13 mg/kg.

The laboratory reported that concentrations of 4,4-DDE (1,900 µg/kg) and 4,4-DDT (2,700 µg/kg) were detected in the soil sample submitted from the surface sample at NE-02. These pesticide concentrations are above the CSEV residential soil limits of 1,400 and 1,700 µg/kg, respectively and below the CSEV worker soil limits of 5,100 and 7,000 µg/kg, respectively. 4,4-DDE and 4,4-DDT were detected above the RL in four other soil samples, except for the one 4,4-DDE detection in SW-01 at the surface which was between the MDL and RL and qualified with a "J" as an estimated value. 4,4-DDD, dieldrin, and heptachlor epoxide were reported above the MDL, but below the laboratory RL in three of the six soil samples, and are qualified with a "J" as an estimated value. Chlordane was detected in two samples and

in the associated method blank and are qualified with a "B". The chlordane sample results qualified with a "B" have been reviewed and further qualified as non-detect. The laboratory reported that concentrations of PCB-1254 (61 µg/kg) and PCB-1260 (64 µg/kg) were detected in the soil sample submitted from the surface sample at SW-01. These PCB concentrations are below the CSEV residential soil limits of 220µg/kg. No herbicides were detected above their respective MDLs in the six F-16-DU Bridge soil samples.

The laboratory reported that asbestos was not detected in the two surface soil samples from SW-01 and NE-02. A summary of soil analytical results from Bridge F-16-DU is included as Table 3. Laboratory data sheets are included in Attachment 2.

Groundwater Analytical Results (Bridge F-16-EJ)

The laboratory analytical results for the groundwater samples collected at Bridge F-16-EJ indicated that one VOC compound (chloroform) was detected and qualified with a "J" indicating that it is an estimated concentration, detected above the MDL, but less than the laboratory RL. The VOC detected is below the state regulatory limits for this compound in groundwater. The VOC detections for the F-16-EJ Bridge are shown on Table 4 and are compared to current State of Colorado or federal maximum contaminant levels (MCLs).

A bis(2-ethylhexyl) phthalate (semi-volatile organic compound [SVOC]) concentration was reported above the MDL, but below the laboratory RL in the groundwater sample from NW-02, and is qualified with a "J" as an estimated value.

The groundwater samples were also submitted for analysis of eight RCRA metals, for both total and dissolved values. The laboratory reported concentrations of dissolved barium were detected at a concentration of 170 µg/L in both groundwater samples. The dissolved barium concentrations do not exceed the MCL of 2,000 µg/L. Dissolved silver, arsenic, chromium, lead, and mercury were not detected in either groundwater sample above the MDL. Cadmium concentrations were reported above the MDL, but below the laboratory RL in both groundwater samples, and are qualified with a "J" as an estimated value. Dissolved selenium was detected in both groundwater samples at concentrations above the MDL, but below the laboratory RL and in the associated method blank and are qualified with a "B". The dissolved selenium sample result qualified with a "B" has been reviewed and further qualified as non-detect.

The laboratory reported that total arsenic was detected at a concentration of 27 µg/L in NW-02 and total lead was detected in both groundwater samples at concentrations of 12 µg/L in SE-01 and 54 µg/L in NW-02. The total lead and arsenic concentrations detected in NW-02 exceeds the MCL of 50 µg/L and 10 µg/L, respectively. Total silver was not detected in either groundwater sample above the MDL. Total selenium concentrations were reported above the MDL, but below the laboratory RL in both of the groundwater samples, and are qualified with a "J" as an estimated value. Total chromium and cadmium detected in sample SE-01 are also qualified with a "J" as an estimated value. Total cadmium was reported in sample NW-02 at a concentration of 8.4 µg/L and also in the associated method blank at an estimated concentration of 0.65 J and is qualified with a "B" for blank contamination. The total cadmium is slightly above the MCL of 5 µg/L. Total barium and mercury were detected in both samples and in the associated method blank and are qualified with a "B". The total metal sample results qualified with a "B" have been reviewed and further qualified as biased high due to the reported associated blank concentrations. RMC requested the laboratory re-analyze the total metals from

sample NW-02 to ensure results for arsenic, cadmium, and lead were not in error. The re-analysis indicated very comparable results for all compounds except the cadmium results. As indicated above, cadmium was initially reported at a concentration of 8.4 µg/L. The re-analysis results for total cadmium are reported as an estimated (between the RL and MDL) concentration of 1.6 J µg/L. Both the initial and re-analysis total metals results are shown in Table 4.

The laboratory reported that a concentration of oil and grease (1.8 milligrams per liter [mg/L]) was detected in the groundwater sample submitted from SE-01.

Analytical results for total suspended solids (TSS) from both groundwater samples were elevated due to the limited well development prior to sampling. TSS was reported at concentrations of 380 mg/L and 2400 mg/L in samples from SE-01 and NW-02, respectively. At this time, there is no state or federal MCL for oil and grease or TSS. However, there are construction discharge permit restrictions on oil and grease and TSS. Colorado Regulation 62.5 sets the TSS standard for a 7- and 30-day average concentration at 45 and 30 mg/L, respectively. Colorado Regulation 62.5 sets instantaneous maximum concentration for the Oil and Grease at 10 mg/L.

Gross alpha analytical results range from a low of 22.2 pCi/L in well SE-01 to a high of 159 pCi/L in well NW-02 at Bridge F-16-EJ. Both gross alpha values exceed the MCL of 15 pCi/L. Laboratory reported gross beta analytical results for the wells SE-01 and NW-02 are 25 and 88.9 pCi/L, respectively. The gross beta value of 88.9 exceeds the MCL of 50 pCi/L. A summary of groundwater analytical results from Bridge F-16-EJ is included in Table 4. Laboratory data sheets are included in Attachment 2.

Groundwater Analytical Results (Bridge F-16-DU)

The laboratory analytical results for the groundwater samples collected at Bridge F-16-DU indicated that three VOC compounds were detected (acetone, chloroform, and methyl tert-butyl ether) but are qualified with a "J" indicating that they are an estimated concentration, detected above the MDL, but less than the laboratory RL. All VOCs detected are below the state regulatory limits for these compounds in groundwater. The VOC detections for the F-16-EJ Bridge are shown on Table 4 and are compared to current State of Colorado or federal MCLs.

No SVOCs or oil and grease concentrations were detected above their respective MDLs in the two F-16-DU Bridge groundwater samples.

The groundwater samples were also submitted for analysis of eight RCRA metals, for both total and dissolved values. The laboratory reported no dissolved metals were detected above their respective RL except for barium which was also detected in the associated method blank and is qualified with a "B". The dissolved barium sample results qualified with a "B" have been reviewed and further qualified as biased high. The dissolved barium concentrations did not exceed the MCL of 2,000 µg/L. Dissolved silver, arsenic, lead, and mercury were not detected in either groundwater sample above the MDL. Chromium and selenium concentrations were reported above the MDL, but below the laboratory RL in both of the groundwater samples, and are qualified with a "J" as an estimated value. Cadmium was also detected above the MDL, but below the RL, in the groundwater sample from NE-02 and qualified with a "J" as an estimated value.

The laboratory reported that total barium was detected at a concentration of 430 µg/L in SW-01 and 310 µg/L in NE-02, chromium was detected at concentrations of 28 µg/L in SW-01 and 38 µg/L in NE-02,

and total lead was detected in both groundwater samples at concentrations of 21 µg/L in SW-01 and 11 µg/L in NE-02. Total silver, mercury, and arsenic in NE-02 were not detected in the groundwater samples above the MDL. Total cadmium and selenium concentrations were reported above the MDL, but below the laboratory RL in the groundwater samples, and are qualified with a "J" as an estimated value. Total arsenic detected in SW-01 was also qualified with a "J" as an estimated value. All total metals detected are below the state regulatory limits for these metals in groundwater.

The laboratory reported concentration of oil and grease were both non-detect in the groundwater sample submitted from SW-01 and NE-02.

Total suspended solids were reported at concentrations of 1,400 mg/L in SW-01 and 1,000 mg/L in NE-02. At this time, there is no state or federal MCL for oil and grease or TSS. However, there are construction discharge permit restrictions on oil and grease and TSS. Colorado Regulation 62.5 sets the TSS standard for a 7- and 30-day average concentration at 45 and 30 mg/L, respectively and sets instantaneous maximum concentration for the Oil and Grease at 10 mg/L.

Gross alpha analytical results in wells SW-01 and NE-02 at Bridge location F-16-DU are reported at 89.9 and 30.4 pCi/L, respectively. Both gross alpha values exceed the MCL of 15 pCi/L. Laboratory reported gross beta analytical results for wells SW-01 and NE-02 are 96.8 and 29.6 pCi/L, respectively. The reported gross beta values for these wells exceed the MCL of 50 pCi/L. It should be noted the samples analyzed for gross alpha/beta were not filtered and contained a fair amount of sediment due to limited well development. A summary of groundwater analytical results from Bridge F-16-EJ is included as Table 4. Laboratory data sheets are included in Attachment 2.

Conclusions and Recommendations

This hazardous materials SI found no environmental concerns associated with soil present at Bridge F-16-EJ. The soil results at Bridge F-16-DU indicated the presence of the pesticides 4, 4-DDE and 4, 4-DDT at concentrations above the residential screening level and below the worker screening level. If during future construction activity at this site, soil is to be moved off-site for disposal, the soil disposition will need to be managed appropriately. If the soil is not removed from the construction site, no special handling restrictions would be applicable because the site is not zoned for residential use and results are below worker screening levels.

Groundwater associated with Bridge F-16-DU (6th Avenue and I-25) was encountered between 13 and 14 feet bgs and did not have any reported RCRA metals, VOCs, SVOCs or oil and grease detected above Colorado or federal water quality standards. TSS is reported at concentrations between 1000 and 1400 mg/L and are above the General Construction Discharge Permit limits for 7-day and 30-day averages. Similarly, gross alpha and beta values exceed their respective MCLs. Although gross alpha and beta values exceed the MCL, the values are likely due to naturally occurring elements such as uranium, thorium, or radium for alpha, and potassium for beta that occur within the geologic sediments in this region. If the elevated gross alpha and beta values are due to naturally occurring elements, the MCL exceedances are not a concern. Should dewatering activities be required as part of the bridge replacement and construction, mitigation measures to minimize suspended solids present in water prior to discharge will be necessary. Applicable permits from CDPHE for water discharge will also be

necessary to ensure proper water management. Proper water management may include monitoring to ensure discharges are within state regulatory limitations. Monitoring may include, but is not limited to: discharge rate, total suspended solids, total dissolved solids, gross alpha and beta with specific analyses for potassium and uranium, oil and grease, pH, metals, volatile organic compounds, etc.

Groundwater associated with Bridge F-16-EJ (6th Avenue and the BNSF Railroad) was encountered between 38 to 40 feet bgs. Groundwater at this location did not contain any VOCs or SVOCs at concentrations above Colorado or federal water quality standards. However, groundwater did contain the RCRA metals arsenic, cadmium, and lead at concentrations above their respective water quality standards in the "total" or non-filtered water sample analyses. These metals were reduced to below the water quality standard limits in the "dissolved" or filtered water sample analyses. As noted earlier, the re-analysis of the total metals sample from NW-02 indicated that cadmium at a concentration of 1.6 µg/L would not exceed regulatory limits. TSS are reported at concentrations as high as 2400 mg/L which are above the General Construction Discharge Permit limits for 7- and 30-day averages. As noted above, one gross beta and both gross alpha values exceed their respective MCLs. These gross alpha and beta concentrations are likely due to naturally occurring values and associated with the geologic sediments in this region. Construction dewatering activity associated with this bridge replacement, if necessary, will likely require mitigation. Mitigation may include obtaining applicable permits from CDPHE for water discharge and discharge monitoring as noted above.

As part of this SI, RMC reviewed environmental assessment reports at Denver Environmental Health associated with the 6th Avenue and Osage Street Union Pacific Railroad Burnham Yard area located adjacent and to the east of the F-16-EJ Bridge. Several investigations starting in 1999 and going through 2005 have been completed and have identified at least three fuel related shallow groundwater plumes associated with multiple diesel fuel releases from above ground and underground storage tanks. The western edges of these fuel related plumes are within a quarter mile of the F-16-EJ Bridge replacement project area. Although fuel related contaminants were not detected at the two temporary wells installed at F-16-EJ (except very minor concentration of oil and grease in SE-01), it is cautioned that during the construction of the replacement bridge, fuel related contaminants may be encountered in shallow groundwater and mitigation measures may be required.

Limitations of Assessment

The statements and recommendations included in this letter are based on a limited scope of services. RMC Consultants, Inc. (RMC) and their agents, employees, and attorneys make no representation that environmental hazards or conditions beyond the scope included in this SI are fully known or characterized. Statements and conclusions in this letter are an assessment of the environmental conditions noted during the execution of this site inspection and are not a guarantee of the property's overall environmental conditions. Conclusions reached are based on available information at the time of the SI.

RMC appreciates this opportunity to perform this SI for Hartwig and Associates. Please contact David Groy or me at (303) 980-4101 if you have any questions.

Ms. Marvinitta Hartwig
January 23, 2013
Page 9 of 9

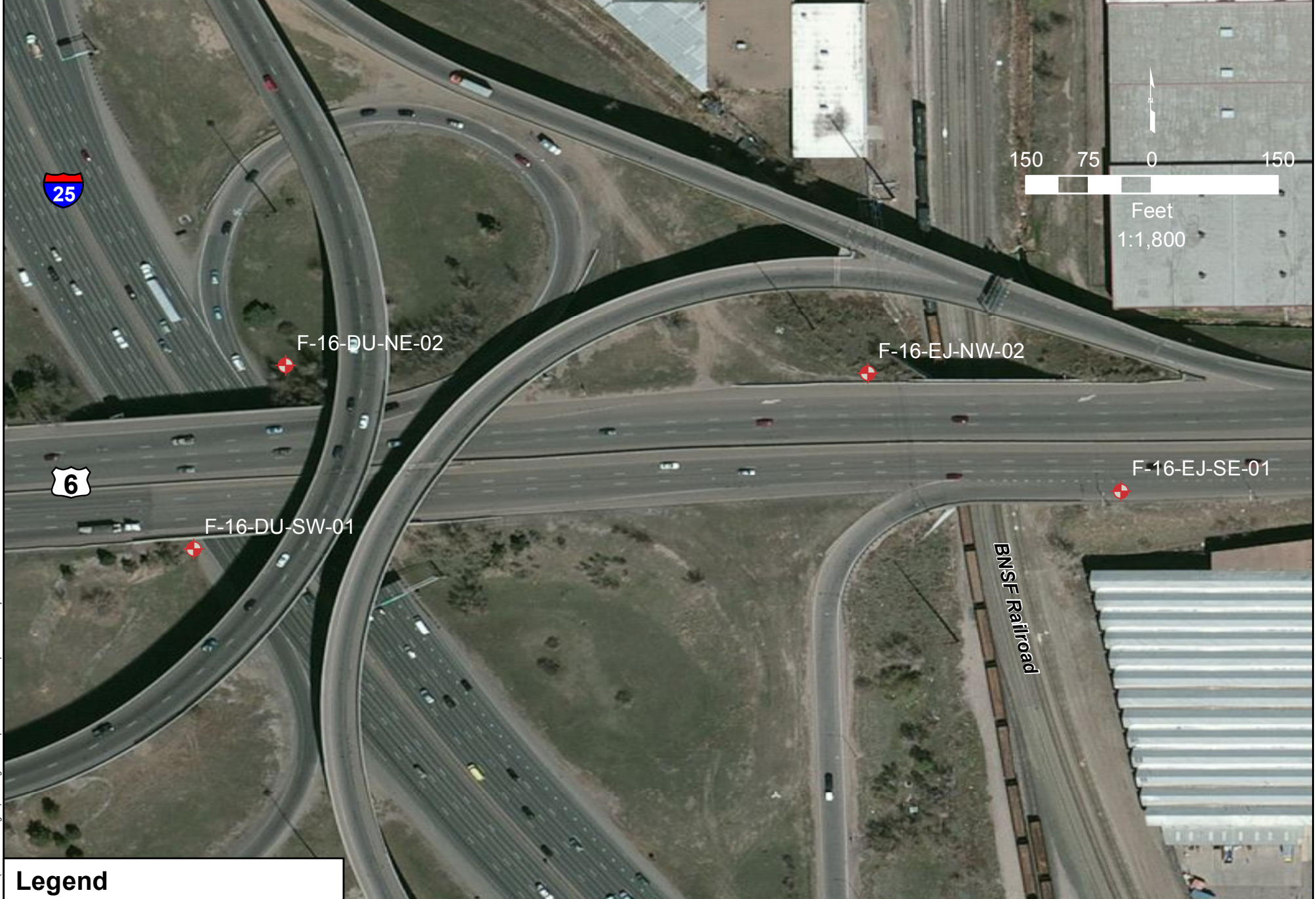
Sincerely,
RMC Consultants, Inc.


Claude D. Murray, PG, PMP
Senior Project Manager

Attachments

- Figure 1 – Borehole/Temporary Well Location Map
- Tables 1 – Summary of Monitoring Well Field Parameters
- Table 2 – Summary of Bridge F-16-EJ Soil Analytical Detections
- Table 3 – Summary of Bridge F-16-DU Soil Analytical Detections
- Table 4 – Summary of Groundwater Analytical Detections
- Attachment 1 – Drilling Logs and Groundwater Sampling Logs
- Attachment 2 – Laboratory Analytical Data Sheets

FIGURE



N:\ENVP\02\2012 Proj\E12-023-154\CDDT\Hartwig S\GIS\Figure_1 Prop Bore Well Loc Map 8.5x11.mxd [kahler] 1/11/2013 1:51:35AM

Legend

 Borehole/Temporary Well

<i>Date:</i> 01/11/2013	<i>Drawn By:</i> JLK	<i>Checked By:</i> CDM
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**Borehole/Temporary Well
Location Map
I-25 AND 6TH AVENUE OVERPASSES
DENVER, COLORADO**

FIGURE 1

Data Sources: CDOT, RMC Consultants, Inc., and Bing Maps

TABLES

Table 1. Summary of Monitoring Well Field Parameters

Parameter	Bridge F-16-EJ		Bridge F-16-DU	
	SE-01-GW	NW-02-GW	SW-01-GW	NE-02-GW
	12/20/2012	12/20/2012	12/26/2012	12/26/2012
Borehole/Temporary Well Location				
Northing	N 39.729525	N 39.725909	N 39.725351	N 39.72589
Westing	W 105.010400	W 105.011232	W 105.013432	W 105.013064
Borehole Total Depth (feet below ground surface)				
	48.9	50	25	25
Depth to Groundwater (ft bgs)				
	38	40.12	13.6	12.98
Depth to Bedrock Contact (ft bgs)				
	48	Not Reached	23.5	23
Temporary Well Screen Interval (ft bgs)				
	33 - 48	35 - 50	10 - 25	10 - 25
Field Water Quality Parameters (closed cell)				
Dissolved Oxygen (mg/L)	1.25	0.04	1.32	0.15
ORP (mV)	67.1	57.6	111.8	16.5
Temperature (° Celsius)	17.3	17.14	16.88	16.07
pH	6.79	6.83	6.73	6.73
Conductivity (mS/cm)	1.237	1.311	1.291	1.25
Turbidity (NTUs)	221	1215	934	311

Notes:

ft bgs = Feet below ground surface

mg/L = milligram per liter

mV = millivolt

mS/cm = milliSiemen per centimeter

NTU = Nephelometric Turbidity Units

Table 2. Summary of Bridge F-16-EJ Soil Analytical Detections

Analytical Parameter	Sample ID	Bridge F-16-EJ											
		NW-02-(0-2)		NW-02-(25-27)		NW-02-(37-39)		SE-01-(0-2)		SE-01-(24-26)		SE-01-(34-36)	
		12/20/2012		12/20/2012		12/20/2012		12/20/2012		12/20/2012		12/20/2012	
CSEV Table Soil Screening Levels (Resid. / Worker)	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	
Total RCRA 8 Metals by 6010B/7471A [mg/kg]													
Ag (Silver)	390 / 5,100	<	0.96	<	0.98	<	1.2	<	0.96	<	1.1	<	1.2
As (Arsenic)	0.39 / 1.6 / 19 ¹	4.0	1.9	4.1	2	6.1	2.5	2.2	1.9	3.1	2.1	5.3 J	12
Ba (Barium)	15,000 / 160,000	120	0.96	170	0.98	130	1.2	50	0.96	400	1.1	230	5.8
Cd (Cadmium)	70 / 770	0.62	0.48	0.27 J	0.49	0.12 J	0.6	0.1 J	0.48	0.28 J	0.53	0.18 J	0.58
Cr (Chromium)	120,000 / 1,500,000	13	1.4	13	1.5	17	1.8	11	1.4	13	1.6	17	1.7
Pb (Lead)	400 / 800	220	0.77	15	0.78	13	0.98	13	0.77	11	0.85	12	0.93
Se (Selenium)	390 / 5,100	<	1.2	<	1.3	1.1 J	1.6	<	1.2	0.95 J	1.4	<	1.5
Hg (Mercury)	13 / 160	0.12	0.021	0.038	0.017	0.013 J	0.025	0.017	0.016	0.017 J	0.019	0.011 J	0.027
VOCs by 8260B [µg/kg]													
Acetone	61,000,000 / 380,000,000	15 JB	21	<	23	78	26	9.1 JB	20	14 JB	24	36	24
2-Butanone (MEK)	28,000,000 / 91,000,000	2.2 J	21	<	23	17 J	26	<	20	<	24	4.9 J	24
Bromoform	25,000 / 40,000	<	5.2	<	5.6	<	6.4	0.30 JB	5.1	0.27 JB	5.9	<	6.1
Carbon disulfide	740,000 / 1,100,000	<	5.2	<	5.6	<	6.4	<	5.1	<	5.9	1.3 J	6.1
Methyl acetate	—	4.7 J	10	<	11	<	13	<	10	<	12	<	12
Cyclohexane	310,000,000 / 3,100,000,000	<	5.2	5.5 J	5.6	5.2 J	6.4	<	5.1	<	5.9	<	6.1
Methylcyclohexane	—	<	5.2	12	5.6	11	6.4	<	5.1	<	5.9	<	6.1
All other compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Pesticides & PCBs by 8081A/8082 [µg/kg]													
4, 4-DDT	1700 / 7000	3.2 P	1.8	<	1.9	<	2.1	<	8.8	<	2	<	11
Chlordane	1600 / 6500	0.70 JP	1.8	<	1.9	<	2.1	<	8.8	<	2	<	11
PCB-1260	220 / 740	24 J	35	<	35	<	42	<	34	<	38	<	42
All other compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Herbicides by 8151A [µg/kg]													
All Compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Asbestos by PLM													
All Compounds	—	<	1%	NA	—	NA	—	<	1%	NA	—	NA	—

Notes:

CSEV = Colorado Soil Evaluation Value (July 2011)

RCRA = Resource Conservation Recovery Act

VOCs = Volatile Organic Compounds

SVOCs = Semi Volatile Organic Compounds

PCBs = Polychlorinated biphenyls

PLM = Polarized light microscopy

mg/kg = milligram per kilogram

µg/kg = microgram per kilogram

< = Less than the method reporting limit

RL = Method Reporting Limit

NA = Not Analyzed

— = no value

J - Result is less than the RL but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

B - Compound was found in the associated blank and sample. Results reviewed and further qualified as non-detection.

P - The %RPD between the primary and confirmation column detector is >40%. The lower value has been reported.

¹ - Colorado Department of Public Health and Environment (CDPHE) background soil arsenic concentration in Colorado for Urban Mixed Use land.

Table 3. Summary of Bridge F-16-DU Soil Analytical Detections

Analytical Parameter	Bridge F-16-DU												
	Sample ID	SW-01-(0-2)		SW-01-(4-6)		SW-01-(11-13)		NE-02-(0-2)		NE-02-(4-6)		NE-02-(9-11)	
	CSEV Table Soil Screening Levels (Resid. / Worker)	12/26/2012		12/26/2012		12/26/2012		12/26/2012		12/26/2012		12/26/2012	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Total RCRA 8 Metals by 6010B/7471A [mg/kg]													
Ag (Silver)	390 / 5,100	<	0.94	<	1.1	<	0.89	0.4 J	1.1	<	1.1	<	1
As (Arsenic)	0.39 / 1.6 / 19 ¹	3.5	1.9	6	2.2	0.8 J	1.8	6	2.1	3.9	2.1	2.1	2
Ba (Barium)	15,000 / 160,000	160	0.94	110	1.1	19	0.89	330	1.1	100	1.1	34	1
Cd (Cadmium)	70 / 770	0.17 J	0.47	0.076 J	0.54	<	0.45	0.52 J	0.54	0.12 J	0.53	0.048 J	0.5
Cr (Chromium)	120,000 / 1,500,000	10	1.4	8.4	1.6	1.1 J	1.3	10	1.6	9	1.6	3.3	1.5
Pb (Lead)	400 / 800	35	0.75	37	0.87	1.5	0.71	170	0.86	28	0.85	8.1	0.8
Se (Selenium)	390 / 5,100	0.88 J	1.2	<	1.4	<	1.2	1.3 J	1.4	<	1.4	<	1.3
Hg (Mercury)	13 / 160	0.019	0.017	0.02	0.02	<	0.017	0.58	0.018	0.014 J	0.02	0.009 J	0.017
VOCs by 8260B [µg/kg]													
Acetone	61,000,000 / 380,000,000	<	26	<	27	<	19	<	20	7.4 J	22	13 J	19
Bromoform	25,000 / 40,000	<	6.5	<	6.7	<	4.7	0.33 JB	4.9	0.36 JB	5.5	0.29 JB	4.7
Methylene Chloride	12,000 / 16,000	<	6.5	<	6.7	<	4.7	2 J	4.9	<	5.5	1.6 J	4.7
Cyclohexane	310,000,000 / 3,100,000,000	0.56 JB	6.5	<	6.7	<	4.7	<	4.9	<	5.5	<	4.7
Methylcyclohexane	—	1.3 JB	6.5	<	6.7	<	4.7	<	4.9	<	5.5	<	4.7
Tetrachloroethene	520 / 950	<	6.5	<	6.7	<	4.7	<	4.9	<	5.5	0.9 J	4.7
All other compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Pesticides & PCBs by 8081A/8082 [µg/kg]													
4, 4-DDD	2000 / 7200	<	8.7	<	1.8	<	1.6	140 J	340	<	18	<	8.6
4, 4-DDE	1400 / 5100	1.5 JP	8.7	2	1.8	<	1.6	1900	340	58	18	18	8.6
4, 4-DDT	1700 / 7000	12 P	8.7	2.0 P	1.8	<	1.6	2700	340	98	18	40	8.6
Chlordane	1600 / 6500	2.8 JBP	8.7	1.5 JB	1.8	<	1.6	<	340	<	18	<	8.6
Dieldrin	30 / 110	5.7 J	8.7	0.43 J	1.8	<	1.6	<	340	<	18	<	8.6
Heptachlor epoxide	53 / 190	<	8.7	0.68 J	1.8	<	1.6	<	340	<	18	<	8.6
PCB-1254	220 / 740	61	34	<	36	<	31	<	33	<	34	<	33
PCB-1260	220 / 740	64	34	<	36	<	31	<	33	<	34	<	33
All other compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Herbicides by 8151A [µg/kg]													
All Compounds	—	<	—	<	—	<	—	<	—	<	—	<	—
Asbestos by PLM													
All Compounds	—	<	1%	NA	—	NA	—	<	1%	NA	—	NA	—

Notes:

CSEV = Colorado Soil Evaluation Value (July 2011)

RCRA = Resource Conservation Recovery Act

VOCs = Volatile Organic Compounds

SVOCs = Semi Volatile Organic Compounds

PCB = Polychlorinated biphenols

PLM = Polarized light microscopy

mg/kg = milligram per kilogram

µg/kg = microgram per kilogram

< = Less than the method reporting limit

RL = Method Reporting Limit

NA = Not Analyzed

— = no value

J - Result is less than the RL but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

B - Compound was found in the associated blank and sample. Results reviewed and further qualified as non-detection.

P - The %RPD between the primary and confirmation column detector is >40%. The lower value has been reported.

¹ - Colorado Department of Public Health and Environment (CDPHE) background soil arsenic concentration in Colorado for Urban Mixed Use land.

Bold indicates analyte detected above the method detection limit (MDL).

Highlighted value indicates results above the residential soil screening value.

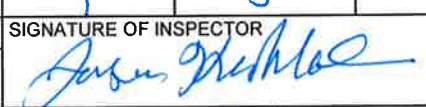
Table 4. Summary of Groundwater Analytical Detections

Analytical Parameter	Sample ID	Bridge F-16-EJ				Bridge F-16-DU			
		SE-01-GW		NW-02-GW		SW-01-GW		NE-02-GW	
		12/20/2012		12/20/2012		12/26/2012		12/26/2012	
	State or Federal Groudwater MCLs ¹	Results	RL	Results	RL	Results	RL	Results	RL
HEM Oil & Grease by 1664A (C10-C28) [mg/L]									
	10 ⁴	1.8	5.6	<	18	<	8.7	<	9.1
Total Suspended Solids by 2540D [mg/L]									
TSS	30 / 45 ³	380	20	2400	100	1400	40	1000	40
Dissolved² RCRA 8 Metals by 6010B/7470A [ug/L]									
Ag (Silver)	50	<	10	<	10	<	10	<	10
As (Arsenic)	10	<	15	<	15	<	15	<	15
Ba (Barium)	2000	170	10	170	10	170 B	10	150 B	10
Cd (Cadmium)	5	0.48 J	5	0.61 J	5	<	5	0.49 J	5
Cr (Chromium, Total)	100	<	10	<	10	1.3 J	10	0.85 J	10
Pb (Lead)	50	<	9	<	9	<	9	<	9
Se (Selenium)	20	11 JB	15	12 JB	15	11 J	15	9.6 J	15
Hg (Mercury)	1.1	<	0.2	<	0.2	<	0.2	<	0.2
Total RCRA 8 Metals by 6010B/7470A [ug/L]									
Ag (Silver)	50	<	10	< / <	10	<	10	<	10
As (Arsenic)	10	<	15	27 / 27	15	7.2 J	15	<	15
Ba (Barium)	2000	250 B	10	650 B / 620	10	430	10	310	10
Cd (Cadmium)	5	0.99 J	5	8.4 B / 1.6 J	5	0.68 J	5	0.58 J	5
Cr (Chromium, Total)	100	7.9 J	10	77 B / 67	10	28	10	38	10
Pb (Lead)	50	12	9	54 / 52	9	21	9	11	9
Se (Selenium)	20	11 J	15	11 J / 11 J	15	12 J	15	9.7 J	15
Hg (Mercury)	1.1	0.57 JB	0.2	0.11 JB	0.2	<	0.2	<	0.2
VOCs by 8260B [ug/L]									
Acetone		<	10	<		<	10	6.4 J	10
Chloroform	3.5	0.53 J	1	<	1	0.30 J	1	<	1
Methyl tert-butyl ether		<	5	<		<	5	0.29 J	5
All other compounds	—	<		<		<		<	
SVOCs by 8270C [ug/L]									
Bis(2-ethylhexyl) phthalate	2.5	<	9.5	2.1 J	9.7	<	9.6	<	9.5
All other compounds	—	<		<		<		<	
Gross Alpha/Beta by Method 900.0									
Alpha (pCi/L)	15	22.2	3	159	3	89.8	3	30.4	3
Beta (pCi/L)	50 ⁵	25	4	88.9	4	96.8	4	29.6	4

Notes:

- 1 - Water standards are based on current state or federal Maximum Concentration Levels (MCLs).
 - 2 - Field samples were filtered to remove suspended solids using a 0.45 micron filter prior to being collected in the sample jar.
 - 3 - Colorado Reg. 62.5 sets TSS standard for 7-day average at 45 mg/L and 30-day average at 30 mg/L.
 - 4 - Colorado Reg. 62.5 sets instantaneous maximum concentration for oil & grease at 10 mg/L for discharge permits.
 - 5 - The MCL for Gross Beta is 4 mrem/year. Since there is no simple conversion between mrem/yr and pCi/L, EPA considers 50 pCi/L to be the level of concern for Gross Beta particle activity.
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 B - Compound was found in the associated blank and sample.
 Highlighted value indicates results above the State and or Federal Water Standard.
 Total Metals was re-analyzed for NW-02 to confirm initial results. The second analysis is shown following the initial analysis.

ATTACHMENT 1

DRILLING LOG							HOLE NO.	NE-02	
COMPANY NAME RMC CONSULTANTS, INC., -Wheat Ridge, CO				DRILLING SUBCONTRACTOR Site Services			SHEET 1 OF 2 SHEETS		
PROJECT I-25 and 6 th Avenue				LOCATION F-16-DU North East Corner					
NAME OF DRILLER Joshua Eckhoff				MANUFACTURER'S DESIGNATION OF DRILL CME 75					
SIZES AND TYPES OF DRILLING EQUIPMENT		4" ID HSA		HOLE LOCATION					
		2" Split Spoon		N 59.725890 W 105.013064					
		140-lb Hammer		SURFACE ELEVATION					
				5213					
				DATE STARTED		DATE COMPLETED			
				12/26/12		12/26/12			
OVERBURDEN THICKNESS				DEPTH GROUNDWATER ENCOUNTERED					
23 ft				13.5' bgs					
DEPTH DRILLED INTO ROCK				DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED					
2 ft				12.98' bgs 30 minutes					
TOTAL DEPTH OF HOLE				OTHER WATER LEVEL MEASUREMENTS					
25 ft									
GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		CORED INTERVAL/CORE BOX NO(S).			
N/A		N/A		N/A					
SAMPLES FOR CHEMICAL ANALYSIS		VOCs		METALS		OTHER	OTHER	OTHER	TOTAL CORE RECOVERY %
		3		3		Metals 3	Asbestos 1	PCB/HERB/PEST 3	
DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		SIGNATURE OF INSPECTOR			
		Bentonite chips (5)		Temp					
ELEV.	DEPTH	DESCRIPTION OF MATERIALS			FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	GRAPHIC	REMARKS
	2.0	sm - olive gray sy 4/1, Gravely Silty Sand, fine to coarse sand with silt and fine Angular gravel, Dry, massive, moderately hard, no staining, no odors, Roots.			PPM 3.7	5 6 5 6 22"	NE-02-0		1114
	4.0	sm - Gravely silty sand as above.			3.8	6 7 9 8 22"	NE-02-4		1126
	6.0	SP - Brown 10YR 5/3, fine sand, Dry, loose, no staining, no odors							
	8.0								
	10.0	sm - Dark Brown 10YR 3/3, silty sand, fine to medium sand with silt, moist, no stain or odor.			4.5	2 4 14"	NE-02.9		1132

DRILLING LOG

HOLE NO. **NE-02**


PROJECT **I-25 and 6th Avenue**

INSPECTOR **J. Kahler**

SHEET **2**
OF **2** SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	Field Screen Results ppm	Blow Counts Recovery	Analytical DRILL TIME. Sample No.	DRILL ROD	REMARKS
	10	SM - Dark Brown 10yR 3/3 Silty Sand, fine to medium Sand with silt, soft, moist, no staining, no odors.	3				
	12		4				
	14	SP - Brown 10yR 5/3, Gravelly Sand, medium to coarse subrounded sand with fine subrounded gravel, wet, loose, no staining, no odor	3.6	8 10 16 17	23"		13.5' water 1140
	16						
	18						
	20	SP - same as above except with coarse subrounded gravel.	3.2	11 20 20 47	23"		1157
	22						
	24	Claystone - Dark Gray M3, Dry, Blocky, no odor, no staining	3.3	33 50/3"	12"		Bed rock contact per driller. 1217
	26						
	28						

PROJECT:

DRILLING LOG							HOLE NO.	
COMPANY NAME RMC CONSULTANTS, INC., -Wheat Ridge, CO				DRILLING SUBCONTRACTOR Site Services		SHEET 1 OF 4 SHEETS	NW-02	
PROJECT I-25 and 6 th Avenue				LOCATION F-16-EJ Northwest corner				
NAME OF DRILLER Jeremy Wan				MANUFACTURER'S DESIGNATION OF DRILL CME 75				
SIZES AND TYPES OF DRILLING EQUIPMENT		4" ID HSA		HOLE LOCATION		N 39.725909 W 105.011232		
		2" Split-Spoon		SURFACE ELEVATION		5234		
		140-lb Hammer		DATE STARTED		12/20/12		
				DATE COMPLETED		12/20/12		
OVERBURDEN THICKNESS 50 Ft +				DEPTH GROUNDWATER ENCOUNTERED 40 feet below ground surface				
DEPTH DRILLED INTO ROCK NA				DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 40.12' by 30 minutes				
TOTAL DEPTH OF HOLE 50 ft				OTHER WATER LEVEL MEASUREMENTS				
GEOTECHNICAL SAMPLES NIA		DISTURBED NIA	UNDISTURBED N/A	CORED INTERVAL/CORE BOX NO(S).				
SAMPLES FOR CHEMICAL ANALYSIS		VOCs	METALS	OTHER	OTHER	OTHER	TOTAL CORE RECOVERY %	
		3	3	metals 3	Asbestos 1	PCB/HCB/PAH 3		
DISPOSITION OF HOLE Abandoned		BACKFILLED	MONITORING WELL	OTHER	SIGNATURE OF INSPECTOR 			
		Bentonite chips	Temp					
ELEV.	DEPTH	DESCRIPTION OF MATERIALS		FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	GRAPHIC	REMARKS
	2.0	sm - Dark brown 10R 3/3 Gravelly Silty Sand, fine Sand with coarse sand and fine Rounded gravel, Soft, Dry, no odor, no staining		PPM 2.0	24"	NW-02 -0		0840
	6.0	sm - olive Gray 5Y 4/1 Silty Sand, fine sand with coarse sand, Medium Dense, moist, no odor, no staining		1.2	6 10 12 14	23"		0848
	8.0							
	10.0							

DRILLING LOG

 HOLE NO. **NW-02**

 PROJECT **I-25 and 6th Avenue**

 INSPECTOR **J. Kahler**

 SHEET **2**
OF **4** SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE ID.	GRAPHIC	REMARKS
	10.0	SC - Olive gray 5y 4/1 Gravelly silty clayey sand, fine sand with clay and trace coarse angular gravel and silt loose moist, no odor, no staining, massive	PPM	5			0859
			1.0	5	22"		
				5			
	12.0			10			
	14.0	SP - Brown 10YR 5/3 Gravelly sand, fine sand with sub rounded fine to medium gravel medium dense, moist, no odor, no staining	1.6	6			0910
				7	22"		
				11			
	16.0			15			
	18.0	SC - olive gray 5y 4/1 fine sand with clay massive, moist, no odor, no staining	2.3	3			0922
				7	23"		
				9			
	20.0			11			
	22.0	SC - olive gray 5y 4/1 fine sand with clay, massive, moist, no odor, no staining	2.4	5			0933
				5	24"	NW-02-25	
				11			
	26.0			13			
	28.0						

PROJECT:

DRILLING LOG

HOLE NO. **NW-02**
 SHEET **3**
 OF **4** SHEETS

PROJECT: **I-25 and 6th Ave**

INSPECTOR: **J. Kahler**

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE ID.	GRAPHIC	REMARKS
28			PPM				
30		SC - olive gray S _y 4/1 fine sand with clay massive, moist, no odor, no staining	3.7	10 11 12 15	24"		0941 Soft-packer
32							
34							
36		SC - Dark gray N ₃ , fine sand with clay and trace coarse rounded gravel to 1/2 inch, moist, no apparent odor, no apparent staining	3.4	5 7 9 9 10 13 11 17	12"		0957 1 1/2" gravel in shoe
38			3.6		23"	NW-02 -37	1004
40							
42		SP - Brown 10YR 5/3 medium to coarse sub angular sand, wet	5.3	4 5 9 9	23"		1021
44			5.2				
46				2 4	24" 24"		1047

PROJECT:

DRILLING LOG

HOLE NO. **NW-92**

PROJECT: **I-25 and 6th Ave**

INSPECTOR: **J. Kahler**

SHEET OF **4** SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE ID.	GRAPHIC	REMARKS
	46	SP - Brown 10y R 5/3, Medium to coarse Subangular sand, wet	PPM	13 24"/24" 25			
	48						
	50	↓	1.5	25 24" 39 24" 35/3"			1105 Heavy sand
	52						
	54						
	56						
	58						
	60						
	62						

PROJECT:

DRILLING LOG						HOLE NO. F-16-EJ-SE-01	
COMPANY NAME RMC Consultants, Wheat Ridge, CO			DRILLING SUBCONTRACTOR Site Services, Golden, CO			SHEET 1 OF SHEETS	
PROJECT 6 th Avenue Bridge Replacement Haz. Mat. Investigation				LOCATION 6 th Ave. and I-25/6 th Ave/BNSF Railroad			
NAME OF DRILLER Josh Eckhoff				MANUFACTURER'S DESIGNATION OF DRILL			
SIZES AND TYPES OF DRILLING EQUIPMENT		4.25" I.O. HSA		HOLE LOCATION ON-RAMP, I-25 NORTH to EAST-BND US6			
		140-lb. hammer		SURFACE ELEVATION			
		2" Split Spears		DATE STARTED 12/20/2012		DATE COMPLETED 12/20/2012	
OVERBURDEN THICKNESS 48 Ft			DEPTH GROUNDWATER ENCOUNTERED 38 Ft bgs				
DEPTH DRILLED INTO ROCK 0.9 Ft			DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED				
TOTAL DEPTH OF HOLE 48.9 Ft			OTHER WATER LEVEL MEASUREMENTS				
GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	CORED INTERVAL/CORE BOX NO(S).			
SAMPLES FOR CHEMICAL ANALYSIS		VOCs	METALS	OTHER	OTHER	OTHER	TOTAL CORE RECOVERY %
1-Asbestos		3	3	3-PCBs	3-Pesticides	3-Herbicides	
DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER	SIGNATURE OF INSPECTOR		
		BENTONITE CHIPS					

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
		Asphalt	RAE PID			Asger through asphalt.
	2	SP - Light brown very Fine Sand, w/ 5-10% F-m-c subround gravel, dry loose (Fill).	1.0ppm	SE-01 (0-2)		Surface sample collected 0.4'-2.0' from sides of boreholes.
	4	ML - Light brown Silt, trace clay, 5% F. gravel, moderately cohesive, damp to moist.	2.2ppm		4 7 9 9	
	8					
	10	CL - Grayish brown silty Clay, cohesive, mod. plasticity			4 6	

DRILLING LOG

HOLE NO.
F-16-EJ-SE-01

PROJECT
6th Avenue Bridge Replacement Haz. Mat. Inv.

INSPECTOR
Joseph Mastromarchi

SHEET 2
OF 4 SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
	10	CL - Grayish-brown Silty Clay, moderate plasticity, cohesive, damp.			8 11	
	12					
	14	CL to CH, Grayish brown Silty Clay, moderate to high plasticity, dense, damp.	2.3 ppm		3 4 6 7	w/ Ultra-Fine calcite crystals (<0.5mm)
	16	ML - Light brown to grayish brown Silt, w/ trace clay, soft/crumbles easily.	1.6 ppm		7 12 10 9	
	18					
	20	ML - Grayish brown clayey Silt, w/ 5% fine gravel, slightly cohesive, crumbles w/ moderate finger pressure, damp.	1.8 ppm		8 7 5 11	2045 hrs.
	22					
	24	ML - Grayish brown clayey Silt, w/ 5% Fine gravel moderately cohesive, damp.	3.2 ppm	SE-01- (24-26)	4 7 11 10	2108 hrs.
	26					
	28					

DRILLING LOG

HOLE NO.
F-16-EJ-SE-01

PROJECT
6th Avenue Bridge Replacement Haz. Mat. Inv.

INSPECTOR
Joseph Mastromarchi

SHEET
OF 4 SHEETS
3

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
	28					
		ML - Dark brown Silt, trace clay, appears organic, SOFT, w/ ultra-fine sulFide particles.	1.2 ppm		3 10 12 12	
	30				10	Color is
		OH - Organic Clay, w/ trace silt, dense, cohesive, highly plastic.	1.3 ppm		11 12 12	very dark brown
	32					
		OH - Organic Silt, trace clay, very dark brownish gray; soft, damp, w/ ultra-fine sulFide particles.	1.8 ppm	SE-01 - (34-36)	0 2 2 8	
	34					
	36					
						Ground water encountered @ 38' Ft
	38					
		SP - Light brown medium Sand, 10% coarse sand, wet.			1 1 2 4	
	40					
	42					
	44					
	46					

DRILLING LOG

HOLE NO.
F-16-EJ-SE-01

PROJECT
6th Avenue Bridge Replacement Haz. Mat. Inv.

INSPECTOR
Joseph Mastromarchi

SHEET 4
OF 4 SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
	46	Assumed medium Sand, as above.				
	48	Bedrock - Very dark gray highly weathered mudstone/shale, crumbles easily w/ finger pressure; dissaggregated material is silt, trace clay.			17 50/0.4	Spoon refusal @ 48.9 ft E.O.B.
	50					

DRILLING LOG							HOLE NO. SW-01	
COMPANY NAME RMC CONSULTANTS, INC., -Wheat Ridge, CO				DRILLING SUBCONTRACTOR SITE Services		SHEET 1 OF 2 SHEETS		
PROJECT I-25 and 6th Avenue				LOCATION F-16-DU Southwest Corner				
NAME OF DRILLER Joshua Eckhoff				MANUFACTURER'S DESIGNATION OF DRILL CME 75				
SIZES AND TYPES OF DRILLING EQUIPMENT		4" ID HSA		HOLE LOCATION N39.725351 W105.013432				
		2" Split Spoon		SURFACE ELEVATION 5213				
		140-lb Hammer		DATE STARTED 12/26/2012		DATE COMPLETED 12/26/2012		
OVERBURDEN THICKNESS 23.5 feet				DEPTH GROUNDWATER ENCOUNTERED 13.5 feet below ground surface				
DEPTH DRILLED INTO ROCK 1.5 feet				DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 13.60 feet below ground surface 30 minutes				
TOTAL DEPTH OF HOLE 25 feet				OTHER WATER LEVEL MEASUREMENTS				
GEOTECHNICAL SAMPLES N/A		DISTURBED N/A	UNDISTURBED N/A	CORED INTERVAL/CORE BOX NO(S).				
SAMPLES FOR CHEMICAL ANALYSIS		VOCs	METALS	OTHER	OTHER	OTHER	TOTAL CORE RECOVERY %	
		3	3	metals 3	Asbestos 1	PCB/Herbicides/ Pesticides 3		
DISPOSITION OF HOLE Abandoned		BACKFILLED	MONITORING WELL	OTHER	SIGNATURE OF INSPECTOR			
		Bentonite Chips (4)	Temp					
ELEV.	DEPTH	DESCRIPTION OF MATERIALS		FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	GRAPHIC	REMARKS
	2.0	Sm - olive gray 5y 4/1 gravelly silty sand, fine to coarse subangular sand with silt and fine angular gravel, massive, dry, hard, no odors, no staining		PPM 4.2	7 12 11 14 20"	Sw-01-0		0803
	4.0	Sm - Dark Brown 10YR 3/3 silty sand, fine to coarse subangular sand with silt, loose, moist, no staining, no odors		5.0	4 3 3 4 20"	Sw-01-4		0812
	6.0							
	8.0							
	10.0	Sm - Gray NS, gravelly silty sand, fine-coarse sand w/ silt and subangular fine gravel moist, massive, no odor/stain		4.4	3 2 2"			soft 0819

DRILLING LOG

HOLE NO.
SW-01

PROJECT I-25 and 6th Avenue

INSPECTOR J. Kahler

SHEET 2
OF 2 SHEETS

ELEV. ft MSL	DEPTH ft	DESCRIPTION OF MATERIALS	Field Screening Results	Blow Counts Recovery	Analytical DRILL TIME: Sample No.	DRILL ROD	REMARKS
	10		ppm	2 2"			0819
				2			
			3.8	2			0824
	12			2 23"		SW-01-11	
				2			
				2			
				2			
	14	SP- Brown 10 YR 5/3, Gravely poorly-sorted sand, Medium to coarse sub rounded sand with fines rounded gravel, Loose, wet, no staining, no odors	4.8	4 22"			water at 13.5' below ground surface 0829
				3			
				4			
	16			4			
	18						
			4.4	4 24"			0837
				5			
	20			11 26			
	22						
	24	Claystone - Dark Gray N3 Dry, Blocky, no odor, no staining	4.8	11 50/3"			0850
	26						
	30						

PROJECT:

GROUNDWATER SAMPLING LOG

Project Name: I-25 and 6th Avenue Project No.: E12.023.154
 Site Name: F-16-EJ North West Field Crew: JK
 Sampling Date: 12/20/2012 Weather Conditions: 45°F, w wind 10mph, Few Clouds
 Monitoring Instruments: YSI 6920 mini R/AE Readings: 0.5 ppm TOC: 1.0 ppm
 Analytical Instruments: pH: YSI 6920 Specific Conductivity: YSI 6920
 Temp: YSI 6920 Turbidity: YSI 6920
 D.O.: YSI 6920 ORP: YSI 6920
 Well ID No.: NW-02 Purging Equipment: SS Geosub submersible
 Type of Well: 2" PVC temporary Monitoring CASING VOLUME CALCULATION FOR 2" WELL:
 Casing Stickup: not measured (TD(ft) - DTW(ft)) x 0.16 gal/ft = 1 casing volume 2" (gallons)
 Static Water Level: 40'02 Bgs (TD(ft) - DTW(ft)) x 0.65 gal/ft = 1 casing volume 4" (gallons)
 Well Depth/Diameter: 50' bgs / 2" (50 - 40) 0.16 = 1.6 gallons

Time	Casing Volumes	Gallons Removed	Dissolved Oxygen (mg/l)	ORP (mV)	Temp (°C)	pH	Conductivity $\mu S/cm^2$	Turbidity (NTUs)	Fe+2 Water Level
1134	Begin purging at		1.75 L/minute						40.02
1138	1.2	1.85	0.50	111.4	16.44	6.97	1.331	980	—
1146	3.5	5.55	0.57	83.4	16.81	7.4	1.325	1215	—
1149	4.3	6.93	0.27	70.4	17.07	6.83	1.321	1053	—
1151	4.9	7.8	0.03	62.4	17.03	6.83	1.316	1215.7	—
1154	5.8	9.25	0.04	57.6	17.14	6.83	1.311	1215	49.12
1155	Collect Sample		NW-02-GW						

Depth to Water after purging: 40.12 Yield of Well: L - M - (H)

Sampling Equipment: SS Geosub Submersible pump

Filtration? YES / (NO) Filtration Method: N/A

Sample Chemistry: pH 6.83 Temp (°C) 17.14 Specific Conductivity 1.311 Turbidity 1215 ORP 57.6 DO 0.04

Analysis to be performed and Number of Containers:

VOCs 3 SVOCs 2 BTEX — SO4 — Alkalinity — Methane — Nitrate/Nitrite —

Nitrate/Nitrite — PCBs/Pesticides — RCRA Metals 3

Comments: TSS (x1); Oil and Grease (x2); Gross Alpha/Beta (x1)

Sampler Signature(s): [Signature]

GROUNDWATER SAMPLING LOG

Project Name: I-25 and 6th Avenue Project No.: E12.023.154
 Site Name: F-16-DU Northeast Field Crew: JK, 7m
 Sampling Date: 12/26/2012 Weather Conditions: 25°F, 7 mph From N, Partly Cloudy
 Monitoring Instruments: Mini RAE 3000 Readings: 0.8 TOC: 1.1
 Analytical Instruments: pH: YSI 6920 Specific Conductivity: YSI 6920
 Temp: YSI 6920 Turbidity: YSI 6920
 D.O.: YSI 6920 ORP: YSI 6920
 Well ID No.: NE-02 Purging Equipment: SS Geosub Submersible
 Type of Well: Temporary Monitoring CASING VOLUME CALCULATION FOR 2" WELL:
 Casing Stickup: not measured (TD(ft) - DTW(ft)) x 0.16 gal/ft = 1 casing volume 2" (gallons)
 Static Water Level: 12.95 bgs (TD(ft) - DTW(ft)) x 0.65 gal/ft = 1 casing volume 4" (gallons)
 Well Depth/Diameter: 25.0' bgs 2" PVC $(25 - 12.95) \times 0.16 = 1.9$

Time	Casing Volumes	Gallons Removed	Dissolved Oxygen (mg/l)	ORP (mV)	Temp (°C)	pH	Conductivity $\mu S/cm$	Turbidity (NTUs)	Fe+2 $\mu L/Bgs$
1242	Begin purging	0.4	2.25	4/mim					12.95
1247	1.6	3	0.47	28.1	16.35	7.15	1.259	1208	—
1252	3.1	5.9	0.17	21.0	16.21	6.90	1.251	1206	—
1257	4.7	8.9	0.19	18.2	16.05	6.80	1.251	573	12.98
1302	6.3	11.9	0.15	16.5	16.07	6.73	1.250	311	12.98
1305	Collect Sample								

Depth to Water after purging: 12.98 Yield of Well: L - M - (H)

Sampling Equipment: SS Geosub submersible
 Filtration? (YES) / NO Filtration Method: 0.45 micron
 Sample Chemistry: pH 6.73 Temp (°C) 16.07 Specific Conductivity 1.250 Turbidity 311 ORP 16.5 DO 0.15
 Analysis to be performed and Number of Containers:
 VOCs 3 SVOCs 2 BTEX — SO4 — Alkalinity — Methane — Nitrate/Nitrite —
 Nitrate/Nitrite — PCBs/Pesticides — RCRA Metals 3
 Comments: TSS (x1); Oil and Grease (x2); Gross Alpha/Beta (x1)

Sampler Signature(s): 
 G: /forms/gwsample.doc

GROUNDWATER SAMPLING LOG

Project Name: I-25 and 6th Avenue Project No.: E12.023.154
 Site Name: F-16-DU Southwest Field Crew: JK
 Sampling Date: 12/26/2012 Weather Conditions: 14°F, 5 wind 5 mph, Mostly Cloudy
 Monitoring Instruments: Mini Rae 3000 Readings: 0.5 ppm TOC: 1.0 ppm
 Analytical Instruments: pH: YSI 6920 Specific Conductivity: YSI 6920
 Temp: YSI 6920 Turbidity: YSI 6920
 D.O.: YSI 6920 ORP: YSI 6920
 Well ID No.: SW01 Purging Equipment: SS GeoSub Submersible
 Type of Well: 2" PVC Temp Monitoring CASING VOLUME CALCULATION FOR 2" WELL:
 Casing Stickup: not measured (TD(ft) - DTW(ft)) x 0.16 gal/ft = 1 casing volume 2" (gallons)
 Static Water Level: 13.60' bgs (TD(ft) - DTW(ft)) x 0.65 gal/ft = 1 casing volume 4" (gallons)
 Well Depth/Diameter: 25' bgs / 2" $(25 - 13.6) \times 0.16 = 1.8 \text{ gallons}$

Time	Casing Volumes	Gallons Removed	Dissolved Oxygen (mg/l)	ORP (mV)	Temp (°C)	pH	Conductivity $\mu\text{S/cm}$	Turbidity (NTUs)	Fe+2 $\mu\text{g/L Bgs}$
0920	Start purging at		2.4 L/min						
0925	1.8	3.2	1.07	117.5	16.67	6.79	1,311	1211	
0930	3.5	6.3	1.28	115.4	16.86	6.75	1,297	1213	13.60'
0935	5.3	9.5	1.31	112.6	16.86	6.73	1,295	1207	
0940	7.0	12.7	1.32	111.8	16.88	6.73	1,291	934	13.59'
0945	Collected	Sample	1.32						

Depth to Water after purging: 13.59 Yield of Well: L - M - **(H)**

Sampling Equipment: SS Geosub Submersible pump
 Filtration? **(YES)** / NO Filtration Method: 0.45 micron
 Sample Chemistry: pH 6.73 Temp (°C) 16.88 Specific Conductivity 1,291 Turbidity 934 ORP 114.8 DO 1.32
 Analysis to be performed and Number of Containers:
 VOCs 3 SVOCs 2 BTEX - SO4 - Alkalinity - Methane - Nitrate/Nitrite -
 Nitrate/Nitrite - PCBs/Pesticides - RCRA Metals 3
 Comments: TSS (x1); oil and Grease (x2); Gross Alpha/Beta (x1)

Sampler Signature(s): 
 G: /forms/gwsample.doc

GROUNDWATER SAMPLING LOG

Project Name: 6TH AVE BRIDGE REPLACEMENT
 Site Name: I-25 @ 6TH AVE
 Sampling Date: 12-20-12
 Monitoring Instruments: Mini-Rae 3000 PID
 Analytical Instruments: pH: YSI
 Temp: YSI
 D.O.: YSI

Project No.: _____
 Field Crew: JM
 Weather Conditions: 30°F, clear
 Readings: BZ: _____ TOC: _____
 Specific Conductivity: YSI
 Turbidity: YSI
 ORP: YSI
 Purging Equipment: Geo-Sub

Well ID No.: F-16-E1-SE-01 (Temp.)
 Type of Well: Temporary monitoring well
 Casing Stickup: _____
 Static Water Level: 36.7' bgs
 Well Depth/Diameter: 2" / 48"

CASING VOLUME CALCULATION
 (TD(ft) - DTW(ft)) x 0.17 gal/ft = 1 casing volume (gals)
 10' x .17 = 1.7 gal (PVC)
 10' x .65 = 6.5 gal (auger)

Time	Casing Volumes	Gallons Removed	Diss. Oxygen (mg/l)	ORP (mV)	Temp (°C)	pH	Cond. μ S/cm	Turbidity (NTUs)
2222	Begin purging							
2226		2.0	0.59	103	16.6	7.29	1.262	1030
2233	3/0.8	5.0	0.72	76.2	17.4	6.96	1.244	1218
2239		8.0	0.99	64.0	17.4	6.87	1.244	1218
2245	5.9/1.5	10.0	1.2	62.9	17.5	6.83	1.241	630
2250		12.0	1.18	63.9	17.5	6.81	1.243	369
2255	8.2/2.1	14.0	1.21	64.5	17.5	6.80	1.241	303
2300	Collect Sample							
2304		17.0	1.25	67.1	17.3	6.79	1.237	221

Depth to water after purging: _____ Yield of Well: L - M - H

Sampling Equipment: Collected from discharge tubing
 Filtration? YES/NO YES Filtration Method: 45 micron disposable high-vol. Filter
 Sample Chemistry: pH 6.8 Temp. 17.3 Cond. 1.237 Turbidity 221 D.O. 1.25 ORP 67.1

Analysis to be performed and Number of Containers:
 VOC 3 SVOC 1 GRO - DRO - Metals 1 PCB/Pest - Oil/Grease 1
 pH/TSS 1 Gross alpha/beta 1

Comments: _____

Sample Signature(s): [Signature]

ATTACHMENT 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37285-1
Client Project/Site: U.S.6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/22/2013 8:51:39 AM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

Analytical Data Package Prepared For

TestAmerica Denver

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 17 Pages

Report No.: 54260

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
46237		NW-02-GW(280-37285-2)	J2L280427-1	MXQTD1AC	9MXQTD10	3002045
		NW-02-GW(280-37285-2)	J2L280427-1	MXQTD1AA	9MXQTD10	3002047

Certificate of Analysis

January 15, 2013

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Attention: Donna Rydberg

Date Received by Lab	:	December 26, 2012
Sample Number/Matrix	:	One (1) Water
SDG Number	:	46237
Project	:	RMC Consultants / US 6 at I-25
Project Number	:	280-37285-1

CASE NARRATIVE

I. Introduction

On December 26, 2012, one water sample was received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the sample was assigned the TestAmerica identification number as described on the cover page of the Analytical Data Package. The sample was assigned to Lot Number J2L280427.

II. Sample Receipt

The sample was received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Gross Beta by method RL-GPC-001

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gas Proportional Counting

Gross Alpha by method RL-GPC-001:

The achieved MDA for sample exceeds the CRDL due to the reduced aliquot size based on weight screens. The sample was counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

Gross Beta by method RL-GPC-001:

The achieved MDA for sample exceeds the CRDL due to the reduced aliquot size based on weight screens. The sample was counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Erika Jordan
Erika Jordan 2013.01.18
14:32:52 -08'00'

Erika Jordan
Customer Service Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c</i> - Combined Uncertainty.	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c</i> , the combined uncertainty. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \sqrt{2 * (BkgrndCnt / BkgrndCntMin) / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \sqrt{(BkgrndCnt / BkgrndCntMin) / SCntMin} + 2.71 / SCntMin) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D) / [\sqrt{(TPUs^2 + TPUD^2)}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUD is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 15-Jan-13

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 54260

SDG No: 46237

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2σ)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
3002045	RL-GPC-001								
	NW-02-GW(280-37285-2)								
	MXQTD1AC	ALPHA	159.0 +- 47.0		pCi/L	100%	31.4	3.0	
	NW-02-GW(280-37285-2) DUP								
	MXQTD1AD	ALPHA	138.0 +- 42.0		pCi/L	100%	24.4	3.0	0.7
3002047	RL-GPC-001								
	231892-122012(280-37267-1) DUP								
	MXQRX1AD	BETA	5.11 +- 3.1	U	pCi/L	100%	5.26	4.0	0.3
	NW-02-GW(280-37285-2)								
	MXQTD1AA	BETA	88.9 +- 17.0		pCi/L	100%	17.0	4.0	
No. of Results: 4									

TestAmerica

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(IPUs)+sq(IPUD))] as defined by ICPT BOA.

rptSTLRchSaSummary2 V5.2.23
A2002

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mdn/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

QC Results Summary
TestAmerica TARL
 Ordered by Method, Batch No, QC Type,.

Date: 15-Jan-13

Report No. : 54260

SDG No.: 46240

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Blas	MDL
RL-GPC-001									
3002045	BLANK QC,								
	MXQ7A1AA	ALPHA	0.670 +/- 0.44	U	pCi/L	100%			0.662
3002045	LCS,								
	MXQ7A1AC	ALPHA	37.5 +/- 8.6		pCi/L	100%	92%	-0.1	0.754
3002046	MATRIX SPIKE, SE-01-GW(280-37307-4)								
	MXQR91AD	ALPHA	311.0 +/- 82.0		pCi/L	100%	101%	0.0	11.3
RL-GPC-001									
3002047	MATRIX SPIKE, 227284-122012(280-37267-2)								
	MXQR31AD	BETA	283.0 +/- 38.0		pCi/L	100%	98%	0.0	4.98
3002047	BLANK QC,								
	MXQ7D1AA	BETA	1.09 +/- 1.0	U	pCi/L	100%			1.79
3002047	LCS,								
	MXQ7D1AC	BETA	40.7 +/- 5.7		pCi/L	100%	100%	0.0	1.84
No. of Results: 6									

TestAmerica
 rptSTLRchQcSum
 mary V5.2.23
 A2002

Blas - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mde/Mda/Mdl, Total Uncert, CRDI, RDL or not identified by gamma scan software.

FORM I

Date: 15-Jan-13

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280427-1
 Client Sample ID: NW-02-GW(280-37285-2)
 SDG: 46237
 Report No.: 54260
 COC No.: 280-165358.1
 Matrix: WATER
 Collection Date: 12/20/2012 11:55:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rstf/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3602045	RL-GPC-001		31.0	47.0	31.4	pCi/L	100%	(5.1)	1/7/13 01:33 p		0.0122	GPC22B
	ALPHA	159.0					3.0	(6.7)			L	
Batch: 3002047	RL-GPC-001		13.0	17.0	17.0	pCi/L	100%	(5.2)	1/7/13 01:14 p		0.0256	GPC28C
	BETA	88.9					4.0	(10.3)			L	

No. of Results: 2 Comments:



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280423-1
 Client Sample ID: 231892-122012(280-37267-1) DUP
 SDG: 46235
 Report No.: 54260
 COC No.: 280-165322.1
 Collection Date: 12/20/2012 10:30:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002047	RL-GPC-001								Orig Sa DB ID: 9MXQFX10			
BETA	5.11	U	3.1	3.1	5.26	pCi/L	100%	0.97	1/7/13 01:14 p		0.0751	GPC26B
	5.85		RER2 0.3			4.0	(3.3)				L	

No. of Results: 1 Comments:

RER2 - Replicate Error Ratio = $(S-D)/\sqrt{sq(TPUs)^2 + sq(TPUD)}$ as defined by ICFT BOA.
 MDC|MDA, Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc|MDa|MDl, Total Uncert, CRDL, RDL or not identified by gamma scan software.



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280427-1
 Client Sample ID: NW-02-GW(280-37285-2) DUP
 SDG: 46237
 Report No.: 54260
 COC No.: 280-165358.1
 Collection Date: 12/20/2012 11:55:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002045	RL-GPC-001								Orig Sa DB ID: 9MXQTD10			
ALPHA	138.0		27.0	42.0	24.4	pCi/L	100%	(5.7)	1/7/13 01:33 p		0.0126	GPC22C
	159.0		RER2 0.7			3.0		(6.6)			L	

No. of Results: 1 Comments:

TestAmerica
 rptSTLRechDupV5.
 2.23 A2002
 RER2 - Replicate Error Ratio = $(S-D)/\sqrt{sq((TPUS)^2 + sq(TPUd))}$ as defined by ICFT BOA.
 MDC(MDA, Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.



FORM II

Date: 15-Jan-13

BLANK RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54260

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Ret/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Work Order: MXQ7A1AA Report DB ID: MXQ7A1AB												
Batch: 3002045	RL-GPC-001	U	0.42	0.44	0.652	pCi/L	100%	0.87	1/7/13 01:33 p		0.1988	GPC23B
ALPHA	0.570	U			0.287	3.0		(2.6)			L	
Work Order: MXQ7D1AA Report DB ID: MXQ7D1AB												
Batch: 3002047	RL-GPC-001	U	1.0	1.0	1.79	pCi/L	100%	0.61	1/7/13 04:55 p		0.1998	GPC26B
BETA	1.09	U			0.861	4.0		(2.1)			L	

No. of Results: 2 Comments:



FORM II

Date: 15-Jan-13

LCS RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54260

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 3002045 RL-GPC-001 Work Order: MXQ7A1AC Report DB ID: MXQ7A1CS													
ALPHA	37.5		2.1	8.6	0.754	pCi/L	100%	40.6	0.42	92%	17/13 01:33 p	0.2002	GPC23C
Rec Limits: 70 130 -0.1													
Batch: 3002047 RL-GPC-001 Work Order: MXQ7D1AC Report DB ID: MXQ7D1CS													
BETA	40.7		2.3	5.7	1.84	pCi/L	100%	40.8	1.6	100%	17/13 04:55 p	0.2007	GPC26C
Rec Limits: 70 130 0.0													

No. of Results: 2 Comments:

TestAmerica Bias -(Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica
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FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46235
 Lot-Sample No.: J2L280423-2, 227284-122012(280-37267-2) Report No.: 54260 Matrix: WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC(MDA)	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002047	Work Order: MXQR31AD					Report DB ID: MXQR31DW	Orig Sa DB ID: 9MXQR310					
BETA	283.0		9.4	38.0	4.98	pCi/L	100%	98.33%	288.0 11.0	17/13 01:14 p	0.078 L	RL-GPC-001 GPC26D

Number of Results: 1

Comments:

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUD))] as defined by ICPT BOA.
 Bias - (Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica
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 V5.2.23 A2002



FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46236 Matrix: WATER
 Lot-Sample No.: J2L280426-1, SE-01-GW(280-37307-4) Report No.: 54260

Parameter	Spike Result, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC(MDA	Rpt Unit, CRDL	Yield	Rec-covery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002045	Work Order: MXQR91AD	23.0	82.0	11.3	pCi/L	100%	101.47%	306.0	1/7/13 01:33 p	0.0265	RL-GPC-001
ALPHA	311.0	22.2						3.2		L	GPC22A

Number of Results: 1

Comments:

1/20 TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
 20 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 30 V5.2.23 A2002



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab POC: Ryberg, Donna R	Carrier Tracking No(s):
Client Contact: Shipping/Receiving		E-Mail: donna.ryberg@testamericainc.com	
Company: TestAmerica Laboratories, Inc.		COC No: 280-165388.1	
Address: 2800 George Washington Way, .		Page: Page 1 of 1	
City: Richland		Job #: 280-37285-1	
State Zip: WA, 99352		Preservation Codes:	
Phone: 509-375-3131 (Tel) 509-375-5590 (Fax)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - Nitrous Oxide F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email:		M - Hexane N - None O - AshNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Project Name: U.S.G at 1-25		Special Instructions/Note:	
Site:		MNOID	
Sample Identification - Client ID (Lab ID)		SUBCONTRACT Gross Alpha, Gross Beta (Method 900.0)	
Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W-water, S-solid, O-water/soil, ST-Tissue, A-air)
12/20/12	11:55 Mountain	G	Water
NW-02-GW (280-37285-2)		X	
JAL280427			
506-46287			
Due 1-22-13			
J2L280427			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Date:	
Relinquished by:		Company:	Method of Shipment:
Relinquished by:		Company:	Date/Time:
Relinquished by:		Company:	Date/Time:
Relinquished by:		Company:	Date/Time:
Custody Seals Intact:		Cooler Temperature (°C) and Other Remarks:	
Yes <input type="checkbox"/> No <input type="checkbox"/>			



Sample Check-in List

Date/Time Received: 12-26-12 / 1100 GM Screen Result: (Airlock) .03 Initials [B]
(Sample Receiving) .05 Initials [B]

Client: STLD SDG #: 46237 NA [] SAF #: _____ NA [B]

Lot Number: Jal280427

Chain of Custody # 280-165358.1

Shipping Container ID: _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B]] Continue with 1 through 4. Initial appropriate response.

No []] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [B]] No []] No Custody Seal []]
- 2. Custody Seals dated and signed? Yes [B]] No []] No Custody Seal []]
- 3. Cooler temperature: _____ °C NA [B]]
- 4. Vermiculite/packing materials is NA []] Wet []] Dry [B]]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [B]] No []]
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1 x LP

8. Sample holding times exceeded? NA []] Yes []] No [B]]

9. Samples have:
 tape [B] hazard labels
 custody seals [B] appropriate sample labels

10. Matrix:
 A (FLT, Wipe, Solid, Soil) [B] I (Water)
 S (Air, Niosh 7400) _____ T (Biological, Ni-63)

11. Samples:
[B] are in good condition _____ are leaking
 are broken _____ have air bubbles (Only for samples requiring no head space)
 Other _____

12. Sample pH appropriate for analysis requested Yes [B]] No []] NA []]
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

RPL ID # of preservative used: W/A

13. Were any anomalies identified in sample receipt? Yes []] No [B]]

14. Description of anomalies (include sample numbers): NA [B]

15. Sample Location, Sample Collector Listed on COC? * Yes No
*For documentation only. No corrective action needed.

16. Additional Information: W/A

Client/Courier denied temperature check. Client/Courier unpack cooler.

Sample Custodian: Juan Lopez Date: 12-27-12

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is
Project Manager: Erika Ford Date 1/2/13

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH							
<i>Juan Lopez 12-27-12</i>				<i>Juan Lopez 12-27-12</i>										

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37285-1

Login Number: 37285

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

TAL-4124-280 (0508)

Client: RMC Consultants, Inc
 Address: 12285 W 48th Ave, Unit A
 City: Wheat Ridge
 State: CO
 Zip Code: 80033

Project Manager: Claude Murray
 Telephone Number (Area Code)/Fax Number: 303 980 4101

Site Contact: Jason Kahler
 Lab Contact: Donna Rydberg
 Contract/Purchase Order/Quote No.: E12.023.154

Chain of Custody Number: 170749
 Date: 12/20/2012
 Page 1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH		
NW-02-0	12/20/12	0840			X	4							8260 B 60108/7470A 8270C 60108/7470A PH/TSS O & G 50855 A/B		
NW-02-GW		1155	X			5	2	3							
NW-02-25		0933			X	3									
NW-02-37		1004			X	3									
NW-02-1 Cup	12/20/12		X			2									

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other STD

1. Relinquished By: *Stan M...*
 Date: 12/20/12 Time: 1644
 Received By: *Donna Rydberg*
 Date: 12/20/12 Time: 1644

2. Relinquished By: _____
 Date: _____ Time: _____
 Received By: _____
 Date: _____ Time: _____

3. Relinquished By: _____
 Date: _____ Time: _____
 Received By: _____
 Date: _____ Time: _____

Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37285-2
Client Project/Site: U.S.6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/8/2013 8:46:38 AM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Job ID: 280-37285-2

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc.

Project: U.S.6 at I-25

Report Number: 280-37285-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Samples were received at the Denver laboratory on December 20, 2012. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler upon receipt was 3.1°C.

The sample requiring Gross A/B was subbed to the TestAmerica Richland laboratory at 2800 George Washington Way, Richland WA 99352 for analysis. This sample was logged and will be reported under a separate job (280-37285-1). Data will not be found in this report.

The report for the Asbestos sample will be found at the back of this report.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

The compound Cis 1,3-Dichloropropene (+28.1) was outside control limits in the continuing calibration verification (CCV) associated with batch 280-153976. This compound is not classified as a Calibration Check Compound (CCC) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for 3 DOD analytes to be outside limits of 20% but within 30%; therefore, the data have been reported.

Acetone and Bromoform were detected in method blank MB 280-153850/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged.

Several surrogate and spike recoveries were outside control limits in the MS and MSD samples associated with batch 280-153854. This MS/MSD batch was performed on a sample from another client and/or job. The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

Carbon Disulfide and 2-Hexanone were detected in method blank MB 280-153984/1-A at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged.

Several spike recoveries were outside control limits in the MS and MSD samples associated with batch 280-153976. The associated LCS

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Job ID: 280-37285-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) WATER

Sample NW-02-GW (280-37285-2) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

Methylene Chloride was detected in method blank MB 280-153993/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The MSD associated with batch 280-280-153993 demonstrated spike recoveries outside control limits for 2-Butanone and Toluene. The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) WATER

Sample NW-02-GW (280-37285-2) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C.

Matrix spike samples were not requested and they were not performed in batch 280-153874 due to insufficient sample volume. The acceptable LCS and LCSD provide evidence of batch precision and accuracy.

No difficulties were encountered during the SVOC analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES SOIL

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A.

The MS and MSD samples associated with batch 280-154261 were analyzed at a dilution causing spike recoveries to be outside control limits for some compounds. The associated LCS was in control and provides evidence that operating procedures were in control.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS) SOIL

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES SOILS

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A.

Sample NW-02-O was analyzed at a dilution to protect the integrity of the instrument due to the nature of the sample matrix (the extract was

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Job ID: 280-37285-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

dark yellow/brown in color). The reporting limits were raised accordingly.

The surrogate recovery method blank MB 280-153862/1-A was outside control limits biased high. There were no target analytes detected in the method blank. Therefore, data was not compromised. Also all associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

The laboratory control sample (LCS) for prep batch 280-154361 exceeded control limits for the following analyte: 2,4-D. This analyte is biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Data was flagged accordingly.

The continuing calibration verification (CCV) for 2,4,5-T associated with analytical batch 280-154361 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The MS and MSD spike recoveries for Dinoseb failed the recovery criteria low in batch 280-154361. Surrogate and spike recoveries were calculated on diluted samples.

No other difficulties were encountered during the herbicides analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS SOILS

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for total metals in accordance with EPA SW-846 Method 6010B.

The MS and MSD spike recoveries for Lead failed the recovery in batch 280-154235. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS WATER

Sample NW-02-GW (280-37285-2) was analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B.

Selenium was detected in method blank MB 280-153635/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other anomalies were observed.

TOTAL METALS WATER

Sample NW-02-GW (280-37285-2) was analyzed for total metals in accordance with EPA SW-846 Method 6010B.

Barium, Cadmium and Chromium were detected in method blank MB 280-153434/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY - WATER

Sample NW-02-GW (280-37285-2) was analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A.

No difficulties were encountered during the dissolved mercury analysis.

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Job ID: 280-37285-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

All quality control parameters were within the acceptance limits.

TOTAL MERCURY - WATER

Sample NW-02-GW (280-37285-2) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A.

Mercury was detected in method blank MB 280-153532/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The MS and MSD spike recoveries for Mercury failed the recovery criteria in batch 280-154037. The associated LCS was in control and provides evidence that operating procedures were in control.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY - SOILS

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A.

The MS and MSD spike recoveries for Mercury failed the recovery criteria in batch 280-153837. The associated LCS was in control and provides evidence that operating procedures were in control.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

OIL AND GREASE (HEM) - WATER

Sample NW-02-GW (280-37285-2) was analyzed for oil and grease (HEM) in accordance with EPA Method 1664A. The samples were prepared and analyzed on 12/29/2012.

No difficulties were encountered during the oil and grease analysis.

All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS - WATER

Sample NW-02-GW (280-37285-2) was analyzed for total suspended solids in accordance with SM20 2540D.

No difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

PH - WATER

Sample NW-02-GW (280-37285-2) was analyzed for pH in accordance with EPA SW-846 9040C.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples NW-02-O (280-37285-1), NW-02-25 (280-37285-3) and NW-02-37 (280-37285-4) were analyzed for percent solids in accordance with EPA SW846 3550C.

No difficulties were encountered during the % solids analyses.

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Job ID: 280-37285-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

All quality control parameters were within the acceptance limits.

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Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

TestAmerica Denver

Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Detection Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Client Sample ID: NW-02-O

Lab Sample ID: 280-37285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J B	21	5.6	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	2.2	J	21	1.9	ug/Kg	1	☼	8260B	Total/NA
Methyl acetate	4.7	J	10	2.9	ug/Kg	1	☼	8260B	Total/NA
4,4'-DDT	3.2	p	1.8	0.61	ug/Kg	1	☼	8081A	Total/NA
Chlordane (n.o.s.)	0.70	J p	1.8	0.22	ug/Kg	1	☼	8081A	Total/NA
PCB-1260	24	J	35	2.8	ug/Kg	1	☼	8082	Total/NA
Polychlorinated biphenyls, Total	24	J	35	2.8	ug/Kg	1	☼	8082	Total/NA
Arsenic	4000		1900	630	ug/Kg	1	☼	6010B	Total/NA
Barium	120000		960	73	ug/Kg	1	☼	6010B	Total/NA
Cadmium	620		480	39	ug/Kg	1	☼	6010B	Total/NA
Chromium	13000		1400	56	ug/Kg	1	☼	6010B	Total/NA
Lead	220000		770	260	ug/Kg	1	☼	6010B	Total/NA
Mercury	120		21	6.7	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: NW-02-GW

Lab Sample ID: 280-37285-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.1	J	9.7	0.54	ug/L	1		8270C	Total/NA
Arsenic	27		15	4.4	ug/L	1		6010B	Total/NA
Barium	650	B	10	0.58	ug/L	1		6010B	Total/NA
Cadmium	8.4	B	5.0	0.45	ug/L	1		6010B	Total/NA
Chromium	77	B	10	0.66	ug/L	1		6010B	Total/NA
Lead	54		9.0	2.6	ug/L	1		6010B	Total/NA
Selenium	11	J	15	4.9	ug/L	1		6010B	Total/NA
Barium	170		10	0.58	ug/L	1		6010B	Dissolved
Cadmium	0.61	J	5.0	0.45	ug/L	1		6010B	Dissolved
Selenium	12	J B	15	4.9	ug/L	1		6010B	Dissolved
Mercury	0.11	J B	0.20	0.027	ug/L	1		7470A	Total/NA
pH adj. to 25 deg C	7.07	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.0	HF	1.00	1.00	Degrees C	1		9040C	Total/NA
Total Suspended Solids	2400		100	28	mg/L	1		SM 2540D	Total/NA

Client Sample ID: NW-02-25

Lab Sample ID: 280-37285-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	5.5	J	5.6	0.45	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	12		5.6	0.47	ug/Kg	1	☼	8260B	Total/NA
Arsenic	4100		2000	650	ug/Kg	1	☼	6010B	Total/NA
Barium	170000		980	74	ug/Kg	1	☼	6010B	Total/NA
Cadmium	270	J	490	40	ug/Kg	1	☼	6010B	Total/NA
Chromium	13000		1500	57	ug/Kg	1	☼	6010B	Total/NA
Lead	15000		780	260	ug/Kg	1	☼	6010B	Total/NA
Mercury	38		17	5.6	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: NW-02-37

Lab Sample ID: 280-37285-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	78		26	6.9	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	17	J	26	2.4	ug/Kg	1	☼	8260B	Total/NA
Cyclohexane	5.2	J	6.4	0.51	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	11		6.4	0.54	ug/Kg	1	☼	8260B	Total/NA
Arsenic	6100		2500	810	ug/Kg	1	☼	6010B	Total/NA

TestAmerica Denver

Detection Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Client Sample ID: NW-02-37 (Continued)

Lab Sample ID: 280-37285-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130000		1200	94	ug/Kg	1	☼	6010B	Total/NA
Cadmium	120	J	620	50	ug/Kg	1	☼	6010B	Total/NA
Chromium	17000		1800	71	ug/Kg	1	☼	6010B	Total/NA
Lead	13000		980	330	ug/Kg	1	☼	6010B	Total/NA
Selenium	1100	J	1600	1100	ug/Kg	1	☼	6010B	Total/NA
Mercury	13	J	25	8.1	ug/Kg	1	☼	7471A	Total/NA

Method Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8081A	Organochlorine Pesticides (GC)	SW846	TAL DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
8151A	Herbicides (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
7471A	Mercury (CVAA)	SW846	TAL DEN
1664A	Oil & Grease (HEM)	EPA	TAL DEN
9040C	pH	SW846	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN
Local Method	General Sub Contract Method	NONE	EMLab-OC

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37285-1	NW-02-O	Solid	12/20/12 08:40	12/20/12 16:44
280-37285-2	NW-02-GW	Water	12/20/12 11:55	12/20/12 16:44
280-37285-3	NW-02-25	Solid	12/20/12 09:33	12/20/12 16:44
280-37285-4	NW-02-37	Solid	12/20/12 10:04	12/20/12 16:44

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Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	15	J B	21	5.6	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
2-Butanone (MEK)	2.2	J	21	1.9	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Benzene	ND		5.2	0.49	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chlorobenzene	ND		5.2	0.56	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Carbon disulfide	ND		5.2	0.44	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Carbon tetrachloride	ND		5.2	0.65	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Cyclohexane	ND		5.2	0.42	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2-Dibromo-3-Chloropropane	ND		10	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Bromomethane	ND		10	0.52	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Bromoform	ND		5.2	0.24	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chloroethane	ND		10	0.92	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chloroform	ND		10	0.30	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chlorobromomethane	ND		5.2	0.31	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Dichlorobromomethane	ND		5.2	0.23	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chlorodibromomethane	ND		5.2	0.59	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Isopropylbenzene	ND		5.2	0.61	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
2-Hexanone	ND		21	5.1	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Chloromethane	ND		10	0.80	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Dichlorodifluoromethane	ND		10	0.54	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
trans-1,2-Dichloroethene	ND		2.6	0.40	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
trans-1,3-Dichloropropene	ND		5.2	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Methylene Chloride	ND		5.2	1.7	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Methyl acetate	4.7	J	10	2.9	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Methyl tert-butyl ether	ND		21	0.35	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
4-Methyl-2-pentanone (MIBK)	ND		21	4.5	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Methylcyclohexane	ND		5.2	0.44	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Styrene	ND		5.2	0.65	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1,1,2-Tetrachloroethane	ND		5.2	0.63	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2,3-Trichlorobenzene	ND		5.2	0.78	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2,4-Trichlorobenzene	ND		5.2	0.76	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Toluene	ND		5.2	0.72	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1,1-Trichloroethane	ND		5.2	0.54	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1,2-Trichloroethane	ND		5.2	0.91	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Trichloroethene	ND		5.2	0.24	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1,2-Trichlorotrifluoroethane	ND		21	0.47	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Vinyl chloride	ND		5.2	1.4	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
m-Xylene & p-Xylene	ND		2.6	1.1	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
o-Xylene	ND		2.6	0.63	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Tetrachloroethene	ND		5.2	0.61	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2-Dichlorobenzene	ND		5.2	0.47	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,3-Dichlorobenzene	ND		5.2	0.50	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,4-Dichlorobenzene	ND		5.2	0.81	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
cis-1,2-Dichloroethene	ND		2.6	0.58	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
cis-1,3-Dichloropropene	ND		5.2	1.3	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1-Dichloroethane	ND		5.2	0.22	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,1-Dichloroethene	ND		5.2	0.61	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2-Dichloroethane	ND		5.2	0.73	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2-Dichloropropane	ND		5.2	0.57	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,4-Dioxane	ND		520	58	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
1,2-Dibromoethane	ND		5.2	0.54	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Trichlorofluoromethane	ND		10	1.1	ug/Kg	☼	12/26/12 16:00	12/27/12 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 140				12/26/12 16:00	12/27/12 02:53	1
Toluene-d8 (Surr)	94		80 - 126				12/26/12 16:00	12/27/12 02:53	1
4-Bromofluorobenzene (Surr)	94		76 - 127				12/26/12 16:00	12/27/12 02:53	1
Dibromofluoromethane (Surr)	102		75 - 121				12/26/12 16:00	12/27/12 02:53	1

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			12/28/12 12:48	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			12/28/12 12:48	1
Benzene	ND		1.0	0.16	ug/L			12/28/12 12:48	1
Chlorobenzene	ND		1.0	0.17	ug/L			12/28/12 12:48	1
Carbon disulfide	ND		2.0	0.45	ug/L			12/28/12 12:48	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			12/28/12 12:48	1
Cyclohexane	ND		2.0	0.28	ug/L			12/28/12 12:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			12/28/12 12:48	1
Bromomethane	ND		2.0	0.21	ug/L			12/28/12 12:48	1
Bromoform	ND		1.0	0.19	ug/L			12/28/12 12:48	1
Chloroethane	ND		2.0	0.41	ug/L			12/28/12 12:48	1
Chloroform	ND		1.0	0.16	ug/L			12/28/12 12:48	1
Chlorobromomethane	ND		1.0	0.10	ug/L			12/28/12 12:48	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			12/28/12 12:48	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			12/28/12 12:48	1
Isopropylbenzene	ND		1.0	0.19	ug/L			12/28/12 12:48	1
2-Hexanone	ND		5.0	1.7	ug/L			12/28/12 12:48	1
Chloromethane	ND		2.0	0.30	ug/L			12/28/12 12:48	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			12/28/12 12:48	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 12:48	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			12/28/12 12:48	1
Methylene Chloride	ND		2.0	0.32	ug/L			12/28/12 12:48	1
Methyl acetate	ND		5.0	1.6	ug/L			12/28/12 12:48	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			12/28/12 12:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/28/12 12:48	1
Methylcyclohexane	ND		1.0	0.36	ug/L			12/28/12 12:48	1
Styrene	ND		1.0	0.17	ug/L			12/28/12 12:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/28/12 12:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 12:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 12:48	1
Toluene	ND		1.0	0.17	ug/L			12/28/12 12:48	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			12/28/12 12:48	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/28/12 12:48	1
Trichloroethene	ND		1.0	0.16	ug/L			12/28/12 12:48	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			12/28/12 12:48	1
Vinyl chloride	ND		1.0	0.10	ug/L			12/28/12 12:48	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			12/28/12 12:48	1
o-Xylene	ND		1.0	0.19	ug/L			12/28/12 12:48	1
Tetrachloroethene	ND		1.0	0.20	ug/L			12/28/12 12:48	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/12 12:48	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			12/28/12 12:48	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/12 12:48	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 12:48	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			12/28/12 12:48	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/28/12 12:48	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/28/12 12:48	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			12/28/12 12:48	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			12/28/12 12:48	1
1,4-Dioxane	ND		200	57	ug/L			12/28/12 12:48	1
Ethylbenzene	ND		1.0	0.16	ug/L			12/28/12 12:48	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			12/28/12 12:48	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			12/28/12 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 127					12/28/12 12:48	1
Toluene-d8 (Surr)	91		80 - 125					12/28/12 12:48	1
4-Bromofluorobenzene (Surr)	87		78 - 120					12/28/12 12:48	1
Dibromofluoromethane (Surr)	96		77 - 120					12/28/12 12:48	1

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		23	6.1	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
2-Butanone (MEK)	ND		23	2.1	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Benzene	ND		5.6	0.53	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chlorobenzene	ND		5.6	0.61	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Carbon disulfide	ND		5.6	0.47	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Carbon tetrachloride	ND		5.6	0.71	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Cyclohexane	5.5	J	5.6	0.45	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2-Dibromo-3-Chloropropane	ND		11	0.68	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Bromomethane	ND		11	0.56	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Bromoform	ND		5.6	0.26	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chloroethane	ND		11	1.0	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chloroform	ND		11	0.33	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chlorobromomethane	ND		5.6	0.34	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Dichlorobromomethane	ND		5.6	0.25	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chlorodibromomethane	ND		5.6	0.64	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Isopropylbenzene	ND		5.6	0.66	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
2-Hexanone	ND		23	5.5	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Chloromethane	ND		11	0.87	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Dichlorodifluoromethane	ND		11	0.59	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
trans-1,2-Dichloroethene	ND		2.8	0.44	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
trans-1,3-Dichloropropene	ND		5.6	0.75	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Methylene Chloride	ND		5.6	1.8	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Methyl acetate	ND		11	3.1	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		23	0.38	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
4-Methyl-2-pentanone (MIBK)	ND		23	4.9	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Methylcyclohexane	12		5.6	0.47	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Styrene	ND		5.6	0.71	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.69	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2,3-Trichlorobenzene	ND		5.6	0.84	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2,4-Trichlorobenzene	ND		5.6	0.82	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Toluene	ND		5.6	0.78	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1,1-Trichloroethane	ND		5.6	0.59	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1,2-Trichloroethane	ND		5.6	0.99	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Trichloroethene	ND		5.6	0.26	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1,2-Trichlorotrifluoroethane	ND		23	0.51	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Vinyl chloride	ND		5.6	1.5	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
m-Xylene & p-Xylene	ND		2.8	1.2	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
o-Xylene	ND		2.8	0.69	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Tetrachloroethene	ND		5.6	0.66	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2-Dichlorobenzene	ND		5.6	0.51	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,3-Dichlorobenzene	ND		5.6	0.54	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,4-Dichlorobenzene	ND		5.6	0.88	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
cis-1,2-Dichloroethene	ND		2.8	0.63	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
cis-1,3-Dichloropropene	ND	^	5.6	1.5	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1-Dichloroethane	ND		5.6	0.24	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,1-Dichloroethene	ND		5.6	0.66	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2-Dichloroethane	ND		5.6	0.79	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2-Dichloropropane	ND		5.6	0.62	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,4-Dioxane	ND		560	63	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Ethylbenzene	ND		5.6	0.75	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
1,2-Dibromoethane	ND		5.6	0.59	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Trichlorofluoromethane	ND		11	1.2	ug/Kg	☼	12/27/12 16:00	12/28/12 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		58 - 140				12/27/12 16:00	12/28/12 05:29	1
Toluene-d8 (Surr)	107		80 - 126				12/27/12 16:00	12/28/12 05:29	1
4-Bromofluorobenzene (Surr)	104		76 - 127				12/27/12 16:00	12/28/12 05:29	1
Dibromofluoromethane (Surr)	90		75 - 121				12/27/12 16:00	12/28/12 05:29	1

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	78		26	6.9	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
2-Butanone (MEK)	17	J	26	2.4	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Benzene	ND		6.4	0.60	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Chlorobenzene	ND		6.4	0.69	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Carbon disulfide	ND		6.4	0.54	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Carbon tetrachloride	ND		6.4	0.81	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Cyclohexane	5.2	J	6.4	0.51	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2-Dibromo-3-Chloropropane	ND		13	0.77	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Bromomethane	ND		13	0.64	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Bromoform	ND		6.4	0.30	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		13	1.1	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Chloroform	ND		13	0.37	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Chlorobromomethane	ND		6.4	0.39	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Dichlorobromomethane	ND		6.4	0.28	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Chlorodibromomethane	ND		6.4	0.73	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Isopropylbenzene	ND		6.4	0.76	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
2-Hexanone	ND		26	6.3	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Chloromethane	ND		13	0.99	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Dichlorodifluoromethane	ND		13	0.67	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
trans-1,2-Dichloroethene	ND		3.2	0.50	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
trans-1,3-Dichloropropene	ND		6.4	0.86	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Methylene Chloride	ND		6.4	2.1	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Methyl acetate	ND		13	3.5	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Methyl tert-butyl ether	ND		26	0.44	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
4-Methyl-2-pentanone (MIBK)	ND		26	5.6	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Methylcyclohexane	11		6.4	0.54	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Styrene	ND		6.4	0.81	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1,1,2-Tetrachloroethane	ND		6.4	0.78	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2,3-Trichlorobenzene	ND		6.4	0.97	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2,4-Trichlorobenzene	ND		6.4	0.94	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Toluene	ND		6.4	0.89	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1,1-Trichloroethane	ND		6.4	0.67	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1,2-Trichloroethane	ND		6.4	1.1	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Trichloroethene	ND		6.4	0.30	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1,2-Trichlorotrifluoroethane	ND		26	0.58	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Vinyl chloride	ND		6.4	1.7	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
m-Xylene & p-Xylene	ND		3.2	1.3	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
o-Xylene	ND		3.2	0.78	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Tetrachloroethene	ND		6.4	0.76	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2-Dichlorobenzene	ND		6.4	0.58	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,3-Dichlorobenzene	ND		6.4	0.62	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,4-Dichlorobenzene	ND		6.4	1.0	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
cis-1,2-Dichloroethene	ND		3.2	0.72	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
cis-1,3-Dichloropropene	ND	^	6.4	1.7	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1-Dichloroethane	ND		6.4	0.27	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,1-Dichloroethene	ND		6.4	0.76	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2-Dichloroethane	ND		6.4	0.90	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2-Dichloropropane	ND		6.4	0.71	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,4-Dioxane	ND		640	72	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Ethylbenzene	ND		6.4	0.86	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
1,2-Dibromoethane	ND		6.4	0.67	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Trichlorofluoromethane	ND		13	1.3	ug/Kg	☼	12/27/12 16:00	12/28/12 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 140				12/27/12 16:00	12/28/12 06:26	1
Toluene-d8 (Surr)	106		80 - 126				12/27/12 16:00	12/28/12 06:26	1
4-Bromofluorobenzene (Surr)	103		76 - 127				12/27/12 16:00	12/28/12 06:26	1
Dibromofluoromethane (Surr)	91		75 - 121				12/27/12 16:00	12/28/12 06:26	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.7	1.7	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,2,4,5-Tetrachlorobenzene	ND		9.7	1.7	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,2,4-Trichlorobenzene	ND		3.9	0.27	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,2-Dichlorobenzene	ND		3.9	0.22	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,3-Dichlorobenzene	ND		9.7	0.29	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,4-Dichlorobenzene	ND		3.9	0.31	ug/L		12/22/12 15:00	12/27/12 15:43	1
1,4-Dioxane	ND		19	1.6	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4,6-Trichlorophenol	ND		9.7	0.28	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4-Dichlorophenol	ND		9.7	0.62	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,2'-oxybis[1-chloropropane]	ND		9.7	0.27	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,3,4,6-Tetrachlorophenol	ND		49	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4,5-Trichlorophenol	ND		9.7	0.44	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4-Dimethylphenol	ND		9.7	0.56	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4-Dinitrophenol	ND		29	9.7	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,4-Dinitrotoluene	ND		9.7	1.6	ug/L		12/22/12 15:00	12/27/12 15:43	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Chloronaphthalene	ND		3.9	0.25	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Chlorophenol	ND		9.7	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Methylnaphthalene	ND		3.9	0.28	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Methylphenol	ND		9.7	0.95	ug/L		12/22/12 15:00	12/27/12 15:43	1
3 & 4 Methylphenol	ND		9.7	0.24	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Nitroaniline	ND		9.7	1.7	ug/L		12/22/12 15:00	12/27/12 15:43	1
2-Nitrophenol	ND		9.7	0.38	ug/L		12/22/12 15:00	12/27/12 15:43	1
3,3'-Dichlorobenzidine	ND		49	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
3-Nitroaniline	ND		9.7	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
4,6-Dinitro-2-methylphenol	ND		49	3.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Bromophenyl phenyl ether	ND		9.7	0.42	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Chloro-3-methylphenol	ND		9.7	2.3	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Chloroaniline	ND		9.7	2.1	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Chlorophenyl phenyl ether	ND		9.7	1.6	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Nitroaniline	ND		9.7	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
4-Nitrophenol	ND		9.7	1.2	ug/L		12/22/12 15:00	12/27/12 15:43	1
Acenaphthene	ND		3.9	0.27	ug/L		12/22/12 15:00	12/27/12 15:43	1
Acenaphthylene	ND		3.9	0.48	ug/L		12/22/12 15:00	12/27/12 15:43	1
Acetophenone	ND		9.7	0.23	ug/L		12/22/12 15:00	12/27/12 15:43	1
Anthracene	ND		3.9	0.41	ug/L		12/22/12 15:00	12/27/12 15:43	1
Atrazine	ND		9.7	0.71	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzaldehyde	ND		9.7	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzo[a]pyrene	ND		3.9	0.30	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzo[b]fluoranthene	ND		3.9	0.52	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzo[g,h,i]perylene	ND		3.9	0.49	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzo[k]fluoranthene	ND		3.9	0.45	ug/L		12/22/12 15:00	12/27/12 15:43	1
Benzo[a]anthracene	ND		3.9	0.34	ug/L		12/22/12 15:00	12/27/12 15:43	1
Bis(2-chloroethoxy)methane	ND		9.7	0.94	ug/L		12/22/12 15:00	12/27/12 15:43	1
Bis(2-chloroethyl)ether	ND		9.7	0.40	ug/L		12/22/12 15:00	12/27/12 15:43	1
Bis(2-ethylhexyl) phthalate	2.1	J	9.7	0.54	ug/L		12/22/12 15:00	12/27/12 15:43	1
Butyl benzyl phthalate	ND		3.9	0.97	ug/L		12/22/12 15:00	12/27/12 15:43	1
Caprolactam	ND		9.7	4.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
Carbazole	ND		3.9	0.42	ug/L		12/22/12 15:00	12/27/12 15:43	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		3.9	0.52	ug/L		12/22/12 15:00	12/27/12 15:43	1
Dibenz(a,h)anthracene	ND		3.9	0.50	ug/L		12/22/12 15:00	12/27/12 15:43	1
Di-n-butyl phthalate	ND		3.9	1.1	ug/L		12/22/12 15:00	12/27/12 15:43	1
Di-n-octyl phthalate	ND		3.9	0.34	ug/L		12/22/12 15:00	12/27/12 15:43	1
Dibenzofuran	ND		3.9	0.28	ug/L		12/22/12 15:00	12/27/12 15:43	1
Diethyl phthalate	ND		3.9	0.37	ug/L		12/22/12 15:00	12/27/12 15:43	1
Dimethyl phthalate	ND		3.9	0.20	ug/L		12/22/12 15:00	12/27/12 15:43	1
Fluoranthene	ND		3.9	0.19	ug/L		12/22/12 15:00	12/27/12 15:43	1
Fluorene	ND		3.9	0.30	ug/L		12/22/12 15:00	12/27/12 15:43	1
Hexachlorobenzene	ND		9.7	0.64	ug/L		12/22/12 15:00	12/27/12 15:43	1
Hexachlorobutadiene	ND		9.7	3.2	ug/L		12/22/12 15:00	12/27/12 15:43	1
Hexachlorocyclopentadiene	ND		49	9.7	ug/L		12/22/12 15:00	12/27/12 15:43	1
Hexachloroethane	ND		9.7	2.0	ug/L		12/22/12 15:00	12/27/12 15:43	1
Indeno[1,2,3-cd]pyrene	ND		3.9	0.63	ug/L		12/22/12 15:00	12/27/12 15:43	1
Isophorone	ND		9.7	0.20	ug/L		12/22/12 15:00	12/27/12 15:43	1
N-Nitrosodi-n-propylamine	ND		9.7	0.34	ug/L		12/22/12 15:00	12/27/12 15:43	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.7	0.43	ug/L		12/22/12 15:00	12/27/12 15:43	1
Naphthalene	ND		3.9	0.28	ug/L		12/22/12 15:00	12/27/12 15:43	1
Nitrobenzene	ND		9.7	0.79	ug/L		12/22/12 15:00	12/27/12 15:43	1
Pentachlorophenol	ND		49	19	ug/L		12/22/12 15:00	12/27/12 15:43	1
Phenanthrene	ND		3.9	0.25	ug/L		12/22/12 15:00	12/27/12 15:43	1
Phenol	ND		9.7	1.9	ug/L		12/22/12 15:00	12/27/12 15:43	1
Pyrene	ND		9.7	0.36	ug/L		12/22/12 15:00	12/27/12 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		51 - 120				12/22/12 15:00	12/27/12 15:43	1
Phenol-d5	86		51 - 120				12/22/12 15:00	12/27/12 15:43	1
2,4,6-Tribromophenol	86		57 - 120				12/22/12 15:00	12/27/12 15:43	1
2-Fluorobiphenyl	78		38 - 120				12/22/12 15:00	12/27/12 15:43	1
Nitrobenzene-d5	85		48 - 120				12/22/12 15:00	12/27/12 15:43	1
Terphenyl-d14	83		50 - 120				12/22/12 15:00	12/27/12 15:43	1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.57	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
4,4'-DDE	ND		1.8	0.25	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
4,4'-DDT	3.2	p	1.8	0.61	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Aldrin	ND		1.8	0.26	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
alpha-BHC	ND		1.8	0.22	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
beta-BHC	ND		1.8	0.69	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Chlordane (n.o.s.)	0.70	J p	1.8	0.22	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
delta-BHC	ND		1.8	0.42	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Dieldrin	ND		1.8	0.22	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Endosulfan I	ND		1.8	0.18	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Endosulfan II	ND		1.8	0.30	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		1.8	0.29	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Endrin	ND		1.8	0.32	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Endrin aldehyde	ND		1.8	0.18	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
gamma-BHC (Lindane)	ND		1.8	0.48	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Heptachlor	ND		1.8	0.22	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Heptachlor epoxide	ND		1.8	0.44	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Methoxychlor	ND		3.4	0.47	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Toxaphene	ND		69	16	ug/Kg	☼	12/24/12 11:15	12/28/12 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		63 - 124				12/24/12 11:15	12/28/12 20:50	1
Tetrachloro-m-xylene	84		59 - 115				12/24/12 11:15	12/28/12 20:50	1

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.60	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
4,4'-DDE	ND		1.9	0.26	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
4,4'-DDT	ND		1.9	0.64	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Aldrin	ND		1.9	0.27	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
alpha-BHC	ND		1.9	0.23	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
beta-BHC	ND		1.9	0.72	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Chlordane (n.o.s.)	ND		1.9	0.23	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
delta-BHC	ND		1.9	0.44	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Dieldrin	ND		1.9	0.23	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Endosulfan I	ND		1.9	0.19	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Endosulfan II	ND		1.9	0.31	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Endosulfan sulfate	ND		1.9	0.30	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Endrin	ND		1.9	0.33	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Endrin aldehyde	ND		1.9	0.19	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
gamma-BHC (Lindane)	ND		1.9	0.51	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Heptachlor	ND		1.9	0.23	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Heptachlor epoxide	ND		1.9	0.47	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Methoxychlor	ND		3.6	0.49	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Toxaphene	ND		73	17	ug/Kg	☼	12/24/12 11:15	12/28/12 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		63 - 124				12/24/12 11:15	12/28/12 21:08	1
Tetrachloro-m-xylene	76		59 - 115				12/24/12 11:15	12/28/12 21:08	1

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.68	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
4,4'-DDE	ND		2.1	0.30	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
4,4'-DDT	ND		2.1	0.74	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Aldrin	ND		2.1	0.31	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
alpha-BHC	ND		2.1	0.27	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		2.1	0.83	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Chlordane (n.o.s.)	ND		2.1	0.27	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
delta-BHC	ND		2.1	0.50	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Dieldrin	ND		2.1	0.26	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Endosulfan I	ND		2.1	0.22	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Endosulfan II	ND		2.1	0.36	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Endosulfan sulfate	ND		2.1	0.35	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Endrin	ND		2.1	0.38	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Endrin aldehyde	ND		2.1	0.21	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
gamma-BHC (Lindane)	ND		2.1	0.58	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Heptachlor	ND		2.1	0.27	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Methoxychlor	ND		4.1	0.56	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Toxaphene	ND		84	20	ug/Kg	☼	12/24/12 11:15	12/28/12 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		63 - 124				12/24/12 11:15	12/28/12 21:25	1
Tetrachloro-m-xylene	83		59 - 115				12/24/12 11:15	12/28/12 21:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		35	5.3	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1221	ND		49	16	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1232	ND		35	5.4	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1242	ND		35	9.6	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1248	ND		35	5.9	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1254	ND		35	5.8	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1260	24	J	35	2.8	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1262	ND		35	12	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
PCB-1268	ND		35	4.1	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
Polychlorinated biphenyls, Total	24	J	35	2.8	ug/Kg	☼	12/21/12 16:15	12/31/12 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		59 - 130				12/21/12 16:15	12/31/12 19:35	1
Tetrachloro-m-xylene	79		53 - 128				12/21/12 16:15	12/31/12 19:35	1

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		35	5.4	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1221	ND		50	16	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1232	ND		35	5.4	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1242	ND		35	9.6	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1248	ND		35	5.9	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1254	ND		35	5.8	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		35	2.8	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1262	ND		35	12	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
PCB-1268	ND		35	4.2	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
Polychlorinated biphenyls, Total	ND		35	2.8	ug/Kg	☼	12/21/12 16:15	12/31/12 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		59 - 130				12/21/12 16:15	12/31/12 20:45	1
Tetrachloro-m-xylene	72		53 - 128				12/21/12 16:15	12/31/12 20:45	1

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		42	6.5	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1221	ND		60	20	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1232	ND		42	6.5	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1242	ND		42	12	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1248	ND		42	7.1	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1254	ND		42	7.0	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1260	ND		42	3.4	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1262	ND		42	15	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
PCB-1268	ND		42	5.0	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
Polychlorinated biphenyls, Total	ND		42	3.4	ug/Kg	☼	12/21/12 16:15	12/31/12 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		59 - 130				12/21/12 16:15	12/31/12 21:08	1
Tetrachloro-m-xylene	80		53 - 128				12/21/12 16:15	12/31/12 21:08	1

Method: 8151A - Herbicides (GC)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	400	71	ug/Kg	☼	12/27/12 08:40	01/02/13 21:01	5
Dinoseb	ND		61	7.1	ug/Kg	☼	12/27/12 08:40	01/02/13 21:01	5
2,4,5-T	ND		100	12	ug/Kg	☼	12/27/12 08:40	01/02/13 21:01	5
Silvex (2,4,5-TP)	ND		100	7.1	ug/Kg	☼	12/27/12 08:40	01/02/13 21:01	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	104	D	31 - 105				12/27/12 08:40	01/02/13 21:01	5

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	91	16	ug/Kg	☼	12/27/12 08:40	01/02/13 21:24	1
Dinoseb	ND		14	1.6	ug/Kg	☼	12/27/12 08:40	01/02/13 21:24	1
2,4,5-T	ND		23	2.6	ug/Kg	☼	12/27/12 08:40	01/02/13 21:24	1
Silvex (2,4,5-TP)	ND		23	1.6	ug/Kg	☼	12/27/12 08:40	01/02/13 21:24	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	89		31 - 105				12/27/12 08:40	01/02/13 21:24	1

Client Sample ID: NW-02-37 **Lab Sample ID: 280-37285-4**
Date Collected: 12/20/12 10:04 **Matrix: Solid**
Date Received: 12/20/12 16:44 **Percent Solids: 77.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	100	18	ug/Kg	☼	12/27/12 08:40	01/02/13 21:46	1
Dinoseb	ND		15	1.8	ug/Kg	☼	12/27/12 08:40	01/02/13 21:46	1
2,4,5-T	ND		25	2.9	ug/Kg	☼	12/27/12 08:40	01/02/13 21:46	1
Silvex (2,4,5-TP)	ND		25	1.8	ug/Kg	☼	12/27/12 08:40	01/02/13 21:46	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	88		31 - 105				12/27/12 08:40	01/02/13 21:46	1

Method: 6010B - Metals (ICP)

Client Sample ID: NW-02-O **Lab Sample ID: 280-37285-1**
Date Collected: 12/20/12 08:40 **Matrix: Solid**
Date Received: 12/20/12 16:44 **Percent Solids: 95.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4000		1900	630	ug/Kg	☼	12/28/12 07:30	12/31/12 15:25	1
Barium	120000		960	73	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1
Cadmium	620		480	39	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1
Chromium	13000		1400	56	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1
Lead	220000		770	260	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1
Selenium	ND		1200	830	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1
Silver	ND		960	150	ug/Kg	☼	12/28/12 07:30	12/28/12 18:57	1

Client Sample ID: NW-02-GW **Lab Sample ID: 280-37285-2**
Date Collected: 12/20/12 11:55 **Matrix: Water**
Date Received: 12/20/12 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27		15	4.4	ug/L		12/24/12 07:30	12/24/12 22:43	1
Barium	650	B	10	0.58	ug/L		12/24/12 07:30	12/24/12 22:43	1
Cadmium	8.4	B	5.0	0.45	ug/L		12/24/12 07:30	12/24/12 22:43	1
Chromium	77	B	10	0.66	ug/L		12/24/12 07:30	12/24/12 22:43	1
Lead	54		9.0	2.6	ug/L		12/24/12 07:30	12/24/12 22:43	1
Selenium	11	J	15	4.9	ug/L		12/24/12 07:30	12/24/12 22:43	1
Silver	ND		10	0.93	ug/L		12/24/12 07:30	12/24/12 22:43	1

Client Sample ID: NW-02-25 **Lab Sample ID: 280-37285-3**
Date Collected: 12/20/12 09:33 **Matrix: Solid**
Date Received: 12/20/12 16:44 **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4100		2000	650	ug/Kg	☼	12/28/12 07:30	12/31/12 14:57	1
Barium	170000		980	74	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1
Cadmium	270	J	490	40	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1
Chromium	13000		1500	57	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1
Lead	15000		780	260	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1
Selenium	ND		1300	840	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1
Silver	ND		980	160	ug/Kg	☼	12/28/12 07:30	12/28/12 19:17	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 6010B - Metals (ICP)

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6100		2500	810	ug/Kg	☼	12/28/12 07:30	12/31/12 15:00	1
Barium	130000		1200	94	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1
Cadmium	120	J	620	50	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1
Chromium	17000		1800	71	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1
Lead	13000		980	330	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1
Selenium	1100	J	1600	1100	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1
Silver	ND		1200	200	ug/Kg	☼	12/28/12 07:30	12/28/12 19:20	1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:34	1
Barium	170		10	0.58	ug/L		12/28/12 12:00	12/31/12 20:34	1
Cadmium	0.61	J	5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:34	1
Chromium	ND		10	0.66	ug/L		12/28/12 12:00	12/31/12 20:34	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:34	1
Selenium	12	J B	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:34	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:34	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	J B	0.20	0.027	ug/L		12/27/12 12:00	12/27/12 18:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:20	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		21	6.7	ug/Kg	☼	12/26/12 11:35	12/26/12 15:17	1

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		17	5.6	ug/Kg	☼	12/26/12 11:35	12/26/12 15:24	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 7471A - Mercury (CVAA)

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	25	8.1	ug/Kg	☼	12/26/12 11:35	12/26/12 15:27	1

General Chemistry

Client Sample ID: NW-02-O
Date Collected: 12/20/12 08:40
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	95		0.10	0.10	%			12/26/12 10:50	1

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		18	4.8	mg/L		12/29/12 09:20	12/29/12 13:14	1
pH adj. to 25 deg C	7.07	HF	0.100	0.100	SU			12/29/12 12:16	1
Temperature	20.0	HF	1.00	1.00	Degrees C			12/29/12 12:16	1
Total Suspended Solids	2400		100	28	mg/L			12/26/12 15:40	1

Client Sample ID: NW-02-25
Date Collected: 12/20/12 09:33
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	86		0.10	0.10	%			12/26/12 10:50	1

Client Sample ID: NW-02-37
Date Collected: 12/20/12 10:04
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	77		0.10	0.10	%			12/26/12 10:50	1

Surrogate Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (58-140)	TOL (80-126)	BFB (76-127)	DBFM (75-121)
280-37262-F-5-C MS	Matrix Spike	101	88	86	103
280-37262-F-5-D MSD	Matrix Spike Duplicate	83	68 X	57 X	87
280-37285-1	NW-02-O	99	94	94	102
280-37285-3	NW-02-25	92	107	104	90
280-37285-3 MS	NW-02-25	97	106	104	92
280-37285-3 MSD	NW-02-25	97	104	103	90
280-37285-4	NW-02-37	95	106	103	91
LCS 280-153850/2-A	Lab Control Sample	109	97	98	111
LCS 280-153984/2-A	Lab Control Sample	99	106	106	91
MB 280-153850/1-A	Method Blank	109	97	96	113
MB 280-153984/1-A	Method Blank	93	110	108	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (70-127)	TOL (80-125)	BFB (78-120)	DBFM (77-120)
280-37285-2	NW-02-GW	92	91	87	96
280-37297-N-1 MS	Matrix Spike	103	93	91	104
280-37297-N-1 MSD	Matrix Spike Duplicate	101	92	92	105
LCS 280-153993/23	Lab Control Sample	87	85	84	92
MB 280-153993/6	Method Blank	90	83	81	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (51-120)	PHL (51-120)	TBP (57-120)	FBP (38-120)	NBZ (48-120)	TPH (50-120)
280-37285-2	NW-02-GW	80	86	86	78	85	83
LCS 280-153406/2-A	Lab Control Sample	89	93	91	85	93	97
LCSD 280-153406/3-A	Lab Control Sample Dup	91	93	92	88	96	100
MB 280-153406/1-A	Method Blank	89	92	78	85	92	95

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5

TestAmerica Denver

Surrogate Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (63-124)	TCX1 (59-115)
280-37285-1	NW-02-O	96	84
280-37285-3	NW-02-25	78	76
280-37285-4	NW-02-37	75	83
280-37307-A-1-B MS	Matrix Spike	89 D	91 D
280-37307-A-1-C MSD	Matrix Spike Duplicate	88 D	96 D
LCS 280-153611/2-A	Lab Control Sample	94	85
MB 280-153611/1-A	Method Blank	94	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (59-130)	TCX1 (53-128)
280-37285-1	NW-02-O	66	79
280-37285-1 MS	NW-02-O	65	87
280-37285-1 MSD	NW-02-O	68	89
280-37285-3	NW-02-25	67	72
280-37285-4	NW-02-37	64	80
LCS 280-153412/3-A	Lab Control Sample	85	87
MB 280-153412/1-A	Method Blank	84	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCPA1 (31-105)
280-37285-1	NW-02-O	104 D
280-37285-3	NW-02-25	89
280-37285-4	NW-02-37	88
280-37307-A-1-I MS	Matrix Spike	63 D
280-37307-A-1-J MSD	Matrix Spike Duplicate	90 D
MB 280-153862/1-A	Method Blank	121 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Denver

Surrogate Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (31-105)
LCS 280-153862/2-A	Lab Control Sample	105

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

1

2

3

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15

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

GC/MS VOA

Prep Batch: 153850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37262-F-5-C MS	Matrix Spike	Total/NA	Solid	5030B	
280-37262-F-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
280-37285-1	NW-02-O	Total/NA	Solid	5030B	
LCS 280-153850/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-153850/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 153854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37262-F-5-C MS	Matrix Spike	Total/NA	Solid	8260B	153850
280-37262-F-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	153850
280-37285-1	NW-02-O	Total/NA	Solid	8260B	153850
LCS 280-153850/2-A	Lab Control Sample	Total/NA	Solid	8260B	153850
MB 280-153850/1-A	Method Blank	Total/NA	Solid	8260B	153850

Analysis Batch: 153976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-3	NW-02-25	Total/NA	Solid	8260B	153984
280-37285-3 MS	NW-02-25	Total/NA	Solid	8260B	153984
280-37285-3 MSD	NW-02-25	Total/NA	Solid	8260B	153984
280-37285-4	NW-02-37	Total/NA	Solid	8260B	153984
LCS 280-153984/2-A	Lab Control Sample	Total/NA	Solid	8260B	153984
MB 280-153984/1-A	Method Blank	Total/NA	Solid	8260B	153984

Prep Batch: 153984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-3	NW-02-25	Total/NA	Solid	5030B	
280-37285-3 MS	NW-02-25	Total/NA	Solid	5030B	
280-37285-3 MSD	NW-02-25	Total/NA	Solid	5030B	
280-37285-4	NW-02-37	Total/NA	Solid	5030B	
LCS 280-153984/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-153984/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 153993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	8260B	
280-37297-N-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-37297-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 280-153993/23	Lab Control Sample	Total/NA	Water	8260B	
MB 280-153993/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 153406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	3520C	
LCS 280-153406/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-153406/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-153406/1-A	Method Blank	Total/NA	Water	3520C	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

GC/MS Semi VOA (Continued)

Analysis Batch: 153874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	8270C	153406
LCS 280-153406/2-A	Lab Control Sample	Total/NA	Water	8270C	153406
LCSD 280-153406/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	153406
MB 280-153406/1-A	Method Blank	Total/NA	Water	8270C	153406

GC Semi VOA

Prep Batch: 153412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	3546	
280-37285-1 MS	NW-02-O	Total/NA	Solid	3546	
280-37285-1 MSD	NW-02-O	Total/NA	Solid	3546	
280-37285-3	NW-02-25	Total/NA	Solid	3546	
280-37285-4	NW-02-37	Total/NA	Solid	3546	
LCS 280-153412/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-153412/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 153611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	3546	
280-37285-3	NW-02-25	Total/NA	Solid	3546	
280-37285-4	NW-02-37	Total/NA	Solid	3546	
280-37307-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
280-37307-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 280-153611/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-153611/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 153862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	8151A	
280-37285-3	NW-02-25	Total/NA	Solid	8151A	
280-37285-4	NW-02-37	Total/NA	Solid	8151A	
280-37307-A-1-I MS	Matrix Spike	Total/NA	Solid	8151A	
280-37307-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	
LCS 280-153862/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 280-153862/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 154063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	8081A	153611
280-37285-3	NW-02-25	Total/NA	Solid	8081A	153611
280-37285-4	NW-02-37	Total/NA	Solid	8081A	153611

Analysis Batch: 154261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-A-1-B MS	Matrix Spike	Total/NA	Solid	8081A	153611
280-37307-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	153611
LCS 280-153611/2-A	Lab Control Sample	Total/NA	Solid	8081A	153611
MB 280-153611/1-A	Method Blank	Total/NA	Solid	8081A	153611

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

GC Semi VOA (Continued)

Analysis Batch: 154352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	8082	153412
280-37285-1 MS	NW-02-O	Total/NA	Solid	8082	153412
280-37285-1 MSD	NW-02-O	Total/NA	Solid	8082	153412
280-37285-3	NW-02-25	Total/NA	Solid	8082	153412
280-37285-4	NW-02-37	Total/NA	Solid	8082	153412
LCS 280-153412/3-A	Lab Control Sample	Total/NA	Solid	8082	153412
MB 280-153412/1-A	Method Blank	Total/NA	Solid	8082	153412

Analysis Batch: 154361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	8151A	153862
280-37285-3	NW-02-25	Total/NA	Solid	8151A	153862
280-37285-4	NW-02-37	Total/NA	Solid	8151A	153862
280-37307-A-1-I MS	Matrix Spike	Total/NA	Solid	8151A	153862
280-37307-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	153862
LCS 280-153862/2-A	Lab Control Sample	Total/NA	Solid	8151A	153862
MB 280-153862/1-A	Method Blank	Total/NA	Solid	8151A	153862

Metals

Prep Batch: 153434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37267-K-1-B MS	Matrix Spike	Total/NA	Water	3010A	
280-37267-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
280-37285-2	NW-02-GW	Total/NA	Water	3010A	
LCS 280-153434/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 280-153434/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 153532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	7470A	
280-37316-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	
280-37316-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
LCS 280-153532/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-153532/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 153633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	3050B	
280-37285-1 MS	NW-02-O	Total/NA	Solid	3050B	
280-37285-1 MSD	NW-02-O	Total/NA	Solid	3050B	
280-37285-3	NW-02-25	Total/NA	Solid	3050B	
280-37285-4	NW-02-37	Total/NA	Solid	3050B	
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-153633/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 153635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Dissolved	Water	3005A	
280-37307-D-4-C MS	Matrix Spike	Dissolved	Water	3005A	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Metals (Continued)

Prep Batch: 153635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-D-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
LCS 280-153635/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-153635/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 153674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	7471A	
280-37285-1 MS	NW-02-O	Total/NA	Solid	7471A	
280-37285-1 MSD	NW-02-O	Total/NA	Solid	7471A	
280-37285-3	NW-02-25	Total/NA	Solid	7471A	
280-37285-4	NW-02-37	Total/NA	Solid	7471A	
LCS 280-153674/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-153674/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 153698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37267-K-1-B MS	Matrix Spike	Total/NA	Water	6010B	153434
280-37267-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	153434
280-37285-2	NW-02-GW	Total/NA	Water	6010B	153434
LCS 280-153434/2-A	Lab Control Sample	Total/NA	Water	6010B	153434
MB 280-153434/1-A	Method Blank	Total/NA	Water	6010B	153434

Analysis Batch: 153837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	7471A	153674
280-37285-1 MS	NW-02-O	Total/NA	Solid	7471A	153674
280-37285-1 MSD	NW-02-O	Total/NA	Solid	7471A	153674
280-37285-3	NW-02-25	Total/NA	Solid	7471A	153674
280-37285-4	NW-02-37	Total/NA	Solid	7471A	153674
LCS 280-153674/2-A	Lab Control Sample	Total/NA	Solid	7471A	153674
MB 280-153674/1-A	Method Blank	Total/NA	Solid	7471A	153674

Prep Batch: 154019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Dissolved	Water	7470A	
280-37285-2 MS	NW-02-GW	Dissolved	Water	7470A	
280-37285-2 MSD	NW-02-GW	Dissolved	Water	7470A	
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 154037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	7470A	153532
280-37316-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	153532
280-37316-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	153532
LCS 280-153532/2-A	Lab Control Sample	Total/NA	Water	7470A	153532
MB 280-153532/1-A	Method Blank	Total/NA	Water	7470A	153532

Analysis Batch: 154235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	6010B	153633

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Metals (Continued)

Analysis Batch: 154235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1 MS	NW-02-O	Total/NA	Solid	6010B	153633
280-37285-1 MSD	NW-02-O	Total/NA	Solid	6010B	153633
280-37285-3	NW-02-25	Total/NA	Solid	6010B	153633
280-37285-4	NW-02-37	Total/NA	Solid	6010B	153633
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	6010B	153633
MB 280-153633/1-A	Method Blank	Total/NA	Solid	6010B	153633

Analysis Batch: 154241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Dissolved	Water	7470A	154019
280-37285-2 MS	NW-02-GW	Dissolved	Water	7470A	154019
280-37285-2 MSD	NW-02-GW	Dissolved	Water	7470A	154019
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	154019
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	154019

Analysis Batch: 154331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	6010B	153633
280-37285-1 MS	NW-02-O	Total/NA	Solid	6010B	153633
280-37285-1 MSD	NW-02-O	Total/NA	Solid	6010B	153633
280-37285-3	NW-02-25	Total/NA	Solid	6010B	153633
280-37285-4	NW-02-37	Total/NA	Solid	6010B	153633
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	6010B	153633
MB 280-153633/1-A	Method Blank	Total/NA	Solid	6010B	153633

Analysis Batch: 154339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Dissolved	Water	6010B	153635
280-37307-D-4-C MS	Matrix Spike	Dissolved	Water	6010B	153635
280-37307-D-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	153635
LCS 280-153635/2-A	Lab Control Sample	Total Recoverable	Water	6010B	153635
MB 280-153635/1-A	Method Blank	Total Recoverable	Water	6010B	153635

General Chemistry

Analysis Batch: 153547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2 DU	NW-02-GW	Total/NA	Water	9040C	
LCS 280-153547/42	Lab Control Sample	Total/NA	Water	9040C	
LCSD 280-153547/43	Lab Control Sample Dup	Total/NA	Water	9040C	

Analysis Batch: 153758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-1	NW-02-O	Total/NA	Solid	Moisture	
280-37285-3	NW-02-25	Total/NA	Solid	Moisture	
280-37285-4	NW-02-37	Total/NA	Solid	Moisture	
280-37358-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

General Chemistry (Continued)

Analysis Batch: 153834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	SM 2540D	
280-37290-D-6 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 280-153834/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-153834/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 280-153834/3	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 154167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	1664A	
LCS 280-154167/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 280-154167/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 280-154167/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 154179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	9040C	
280-37417-B-2 DU	Duplicate	Total/NA	Water	9040C	
LCS 280-154179/4	Lab Control Sample	Total/NA	Water	9040C	
LCSD 280-154179/5	Lab Control Sample Dup	Total/NA	Water	9040C	

Analysis Batch: 154181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	1664A	154167
LCS 280-154167/2-A	Lab Control Sample	Total/NA	Water	1664A	154167
LCSD 280-154167/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	154167
MB 280-154167/1-A	Method Blank	Total/NA	Water	1664A	154167

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-153850/1-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.57	J	20	5.4	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Benzene	ND		5.0	0.47	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Cyclohexane	ND		5.0	0.40	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Bromomethane	ND		10	0.50	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Bromoform	0.322	J	5.0	0.23	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloroethane	ND		10	0.89	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloroform	ND		10	0.29	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
2-Hexanone	ND		20	4.9	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloromethane	ND		10	0.77	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methyl acetate	ND		10	2.8	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Styrene	ND		5.0	0.63	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Toluene	ND		5.0	0.69	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/26/12 16:00	12/26/12 19:17	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153850/1-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/26/12 16:00	12/26/12 19:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		58 - 140	12/26/12 16:00	12/26/12 19:17	1
Toluene-d8 (Surr)	97		80 - 126	12/26/12 16:00	12/26/12 19:17	1
4-Bromofluorobenzene (Surr)	96		76 - 127	12/26/12 16:00	12/26/12 19:17	1
Dibromofluoromethane (Surr)	113		75 - 121	12/26/12 16:00	12/26/12 19:17	1

Lab Sample ID: LCS 280-153850/2-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/Kg		109	65 - 150
2-Butanone (MEK)	200	227		ug/Kg		113	45 - 177
Benzene	50.0	39.9		ug/Kg		80	75 - 135
Chlorobenzene	50.0	40.5		ug/Kg		81	78 - 135
Carbon disulfide	50.0	29.5		ug/Kg		59	45 - 150
Carbon tetrachloride	50.0	40.3		ug/Kg		81	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	43.4		ug/Kg		87	66 - 150
Bromomethane	50.0	43.2		ug/Kg		86	52 - 135
Bromoform	50.0	45.2		ug/Kg		90	77 - 135
Chloroethane	50.0	40.0		ug/Kg		80	51 - 145
Chloroform	50.0	39.4		ug/Kg		79	73 - 123
Chlorobromomethane	50.0	44.0		ug/Kg		88	74 - 135
Dichlorobromomethane	50.0	43.2		ug/Kg		86	73 - 135
Chlorodibromomethane	50.0	44.5		ug/Kg		89	77 - 135
Isopropylbenzene	50.0	39.3		ug/Kg		79	74 - 137
2-Hexanone	200	215		ug/Kg		108	67 - 150
Chloromethane	50.0	41.2		ug/Kg		82	41 - 138
Dichlorodifluoromethane	50.0	42.5		ug/Kg		85	32 - 152
trans-1,2-Dichloroethene	50.0	40.3		ug/Kg		81	77 - 135
trans-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	71 - 135
Methylene Chloride	50.0	42.8		ug/Kg		86	76 - 136
Methyl tert-butyl ether	50.0	47.6		ug/Kg		95	71 - 141
4-Methyl-2-pentanone (MIBK)	200	217		ug/Kg		108	69 - 150
Styrene	50.0	42.9		ug/Kg		86	76 - 135
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	65 - 135
1,2,3-Trichlorobenzene	50.0	42.4		ug/Kg		85	62 - 135
1,2,4-Trichlorobenzene	50.0	41.8		ug/Kg		84	65 - 135
Toluene	50.0	40.0		ug/Kg		80	77 - 122
1,1,1-Trichloroethane	50.0	41.6		ug/Kg		83	70 - 135
1,1,2-Trichloroethane	50.0	42.5		ug/Kg		85	78 - 135
Trichloroethene	50.0	38.6		ug/Kg		77	77 - 135
Vinyl chloride	50.0	41.9		ug/Kg		84	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153850/2-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	79.7		ug/Kg		80	77 - 135
o-Xylene	50.0	41.0		ug/Kg		82	75 - 135
Tetrachloroethene	50.0	39.5		ug/Kg		79	76 - 135
1,2-Dichlorobenzene	50.0	41.7		ug/Kg		83	73 - 135
1,3-Dichlorobenzene	50.0	40.5		ug/Kg		81	69 - 135
1,4-Dichlorobenzene	50.0	40.3		ug/Kg		81	73 - 135
cis-1,2-Dichloroethene	50.0	40.4		ug/Kg		81	76 - 135
cis-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	71 - 135
1,1-Dichloroethane	50.0	41.0		ug/Kg		82	70 - 135
1,1-Dichloroethene	50.0	42.2		ug/Kg		84	79 - 135
1,2-Dichloroethane	50.0	44.0		ug/Kg		88	69 - 135
1,2-Dichloropropane	50.0	40.8		ug/Kg		82	72 - 121
Ethylbenzene	50.0	40.3		ug/Kg		81	73 - 125
1,2-Dibromoethane	50.0	42.7		ug/Kg		85	76 - 135
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	111		75 - 121

Lab Sample ID: 280-37262-F-5-C MS

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	52	B	279	349		ug/Kg	☼	106	65 - 150
2-Butanone (MEK)	13	J	279	337		ug/Kg	☼	116	45 - 177
Benzene	ND		69.9	51.8	F	ug/Kg	☼	74	75 - 135
Chlorobenzene	ND		69.9	45.5	F	ug/Kg	☼	65	78 - 135
Carbon disulfide	ND		69.9	37.4		ug/Kg	☼	54	45 - 150
Carbon tetrachloride	ND		69.9	38.1	F	ug/Kg	☼	54	69 - 138
1,2-Dibromo-3-Chloropropane	ND		69.9	55.7		ug/Kg	☼	80	66 - 150
Bromomethane	ND		69.9	53.3		ug/Kg	☼	76	52 - 135
Bromoform	ND		69.9	47.2	F	ug/Kg	☼	68	77 - 135
Chloroethane	ND		69.9	52.6		ug/Kg	☼	75	51 - 145
Chloroform	ND		69.9	55.5		ug/Kg	☼	79	73 - 123
Chlorobromomethane	ND		69.9	58.5		ug/Kg	☼	84	74 - 135
Dichlorobromomethane	ND		69.9	50.8		ug/Kg	☼	73	73 - 135
Chlorodibromomethane	ND		69.9	49.5	F	ug/Kg	☼	71	77 - 135
Isopropylbenzene	ND		69.9	48.2	F	ug/Kg	☼	69	74 - 137
2-Hexanone	ND		279	304		ug/Kg	☼	109	67 - 150
Chloromethane	ND		69.9	54.4		ug/Kg	☼	78	41 - 138
Dichlorodifluoromethane	ND		69.9	58.9		ug/Kg	☼	84	32 - 152
trans-1,2-Dichloroethene	ND		69.9	52.7	F	ug/Kg	☼	75	77 - 135
trans-1,3-Dichloropropene	ND		69.9	51.3		ug/Kg	☼	73	71 - 135
Methylene Chloride	ND		69.9	56.3		ug/Kg	☼	81	76 - 136

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37262-F-5-C MS

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	ND		69.9	67.2		ug/Kg	*	96	71 - 141
4-Methyl-2-pentanone (MIBK)	ND		279	303		ug/Kg	*	108	69 - 150
Styrene	ND		69.9	45.0	F	ug/Kg	*	64	76 - 135
1,1,1,2-Tetrachloroethane	ND		69.9	59.2		ug/Kg	*	85	65 - 135
1,2,3-Trichlorobenzene	ND		69.9	24.2	F	ug/Kg	*	35	62 - 135
1,2,4-Trichlorobenzene	ND		69.9	27.0	F	ug/Kg	*	39	65 - 135
Toluene	ND		69.9	49.7	F	ug/Kg	*	71	77 - 122
1,1,1-Trichloroethane	ND		69.9	56.4		ug/Kg	*	81	70 - 135
1,1,2-Trichloroethane	ND		69.9	56.7		ug/Kg	*	81	78 - 135
Trichloroethene	ND		69.9	48.9	F	ug/Kg	*	70	77 - 135
Vinyl chloride	ND		69.9	52.9		ug/Kg	*	76	43 - 145
m-Xylene & p-Xylene	ND		140	89.7	F	ug/Kg	*	64	77 - 135
o-Xylene	ND		69.9	44.9	F	ug/Kg	*	64	75 - 135
Tetrachloroethene	ND		69.9	45.6	F	ug/Kg	*	65	76 - 135
1,2-Dichlorobenzene	ND		69.9	41.7	F	ug/Kg	*	60	73 - 135
1,3-Dichlorobenzene	ND		69.9	41.6	F	ug/Kg	*	60	69 - 135
1,4-Dichlorobenzene	ND		69.9	41.8	F	ug/Kg	*	60	73 - 135
cis-1,2-Dichloroethene	ND		69.9	52.0	F	ug/Kg	*	74	76 - 135
cis-1,3-Dichloropropene	ND		69.9	50.2		ug/Kg	*	72	71 - 135
1,1-Dichloroethane	ND		69.9	56.1		ug/Kg	*	80	70 - 135
1,1-Dichloroethene	ND		69.9	61.6		ug/Kg	*	88	79 - 135
1,2-Dichloroethane	ND		69.9	55.7		ug/Kg	*	80	69 - 135
1,2-Dichloropropane	ND		69.9	52.9		ug/Kg	*	76	72 - 121
Ethylbenzene	ND		69.9	46.6	F	ug/Kg	*	67	73 - 125
1,2-Dibromoethane	ND		69.9	52.7	F	ug/Kg	*	75	76 - 135
Trichlorofluoromethane	ND		69.9	60.8		ug/Kg	*	87	48 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		58 - 140
Toluene-d8 (Surr)	88		80 - 126
4-Bromofluorobenzene (Surr)	86		76 - 127
Dibromofluoromethane (Surr)	103		75 - 121

Lab Sample ID: 280-37262-F-5-D MSD

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	52	B	280	291		ug/Kg	*	86	65 - 150	18	28
2-Butanone (MEK)	13	J	280	284		ug/Kg	*	97	45 - 177	17	32
Benzene	ND		69.9	44.6	F	ug/Kg	*	64	75 - 135	15	20
Chlorobenzene	ND		69.9	35.6	F	ug/Kg	*	51	78 - 135	25	20
Carbon disulfide	ND		69.9	29.5	F	ug/Kg	*	42	45 - 150	24	24
Carbon tetrachloride	ND		69.9	36.4	F	ug/Kg	*	52	69 - 138	5	20
1,2-Dibromo-3-Chloropropane	ND		69.9	38.9	F	ug/Kg	*	56	66 - 150	36	28
Bromomethane	ND		69.9	45.3		ug/Kg	*	65	52 - 135	16	22
Bromoform	ND		69.9	38.5	F	ug/Kg	*	55	77 - 135	21	20
Chloroethane	ND		69.9	44.2		ug/Kg	*	63	51 - 145	17	22

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37262-F-5-D MSD

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		69.9	46.6	F	ug/Kg	*	67	73 - 123	17	20
Chlorobromomethane	ND		69.9	49.5	F	ug/Kg	*	71	74 - 135	17	21
Dichlorobromomethane	ND		69.9	44.6	F	ug/Kg	*	64	73 - 135	13	20
Chlorodibromomethane	ND		69.9	41.9	F	ug/Kg	*	60	77 - 135	17	20
Isopropylbenzene	ND		69.9	29.7	F	ug/Kg	*	43	74 - 137	47	20
2-Hexanone	ND		280	245		ug/Kg	*	87	67 - 150	22	29
Chloromethane	ND		69.9	46.3		ug/Kg	*	66	41 - 138	16	25
Dichlorodifluoromethane	ND		69.9	47.3		ug/Kg	*	68	32 - 152	22	28
trans-1,2-Dichloroethene	ND		69.9	44.6	F	ug/Kg	*	64	77 - 135	17	20
trans-1,3-Dichloropropene	ND		69.9	42.3	F	ug/Kg	*	60	71 - 135	19	20
Methylene Chloride	ND		69.9	48.0	F	ug/Kg	*	69	76 - 136	16	21
Methyl tert-butyl ether	ND		69.9	55.5		ug/Kg	*	79	71 - 141	19	20
4-Methyl-2-pentanone (MIBK)	ND		280	254		ug/Kg	*	91	69 - 150	18	25
Styrene	ND		69.9	34.3	F	ug/Kg	*	49	76 - 135	27	20
1,1,2,2-Tetrachloroethane	ND		69.9	39.6	F	ug/Kg	*	57	65 - 135	40	21
1,2,3-Trichlorobenzene	ND		69.9	14.6	F	ug/Kg	*	21	62 - 135	49	31
1,2,4-Trichlorobenzene	ND		69.9	16.0	F	ug/Kg	*	23	65 - 135	51	26
Toluene	ND		69.9	41.5	F	ug/Kg	*	59	77 - 122	18	20
1,1,1-Trichloroethane	ND		69.9	47.0	F	ug/Kg	*	67	70 - 135	18	20
1,1,2-Trichloroethane	ND		69.9	47.8	F	ug/Kg	*	68	78 - 135	17	20
Trichloroethene	ND		69.9	40.4	F	ug/Kg	*	58	77 - 135	19	20
Vinyl chloride	ND		69.9	44.2		ug/Kg	*	63	43 - 145	18	24
m-Xylene & p-Xylene	ND		140	67.7	F	ug/Kg	*	48	77 - 135	28	20
o-Xylene	ND		69.9	34.1	F	ug/Kg	*	49	75 - 135	27	20
Tetrachloroethene	ND		69.9	35.6	F	ug/Kg	*	51	76 - 135	25	20
1,2-Dichlorobenzene	ND		69.9	26.3	F	ug/Kg	*	38	73 - 135	46	20
1,3-Dichlorobenzene	ND		69.9	26.2	F	ug/Kg	*	38	69 - 135	45	20
1,4-Dichlorobenzene	ND		69.9	26.3	F	ug/Kg	*	38	73 - 135	45	22
cis-1,2-Dichloroethene	ND		69.9	44.2	F	ug/Kg	*	63	76 - 135	16	20
cis-1,3-Dichloropropene	ND		69.9	40.4	F	ug/Kg	*	58	71 - 135	22	20
1,1-Dichloroethane	ND		69.9	47.3	F	ug/Kg	*	68	70 - 135	17	20
1,1-Dichloroethene	ND		69.9	51.7	F	ug/Kg	*	74	79 - 135	17	20
1,2-Dichloroethane	ND		69.9	47.1	F	ug/Kg	*	67	69 - 135	17	20
1,2-Dichloropropane	ND		69.9	44.9	F	ug/Kg	*	64	72 - 121	16	20
Ethylbenzene	ND		69.9	34.9	F	ug/Kg	*	50	73 - 125	29	20
1,2-Dibromoethane	ND		69.9	42.2	F	ug/Kg	*	60	76 - 135	22	20
Trichlorofluoromethane	ND		69.9	47.8		ug/Kg	*	68	48 - 150	24	33

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		58 - 140
Toluene-d8 (Surr)	68	X	80 - 126
4-Bromofluorobenzene (Surr)	57	X	76 - 127
Dibromofluoromethane (Surr)	87		75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153984/1-A

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Benzene	ND		5.0	0.47	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Carbon disulfide	0.431	J	5.0	0.42	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Cyclohexane	ND		5.0	0.40	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Bromomethane	ND		10	0.50	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Bromoform	ND		5.0	0.23	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chloroethane	ND		10	0.89	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chloroform	ND		10	0.29	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
2-Hexanone	5.02	J	20	4.9	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Chloromethane	ND		10	0.77	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Methyl acetate	ND		10	2.8	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Styrene	ND		5.0	0.63	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Toluene	ND		5.0	0.69	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/27/12 16:00	12/27/12 22:30	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153984/1-A

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/27/12 16:00	12/27/12 22:30	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/27/12 16:00	12/27/12 22:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		58 - 140	12/27/12 16:00	12/27/12 22:30	1
Toluene-d8 (Surr)	110		80 - 126	12/27/12 16:00	12/27/12 22:30	1
4-Bromofluorobenzene (Surr)	108		76 - 127	12/27/12 16:00	12/27/12 22:30	1
Dibromofluoromethane (Surr)	91		75 - 121	12/27/12 16:00	12/27/12 22:30	1

Lab Sample ID: LCS 280-153984/2-A

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	215		ug/Kg		107	65 - 150
2-Butanone (MEK)	200	286		ug/Kg		143	45 - 177
Benzene	50.0	48.8		ug/Kg		98	75 - 135
Chlorobenzene	50.0	50.1		ug/Kg		100	78 - 135
Carbon disulfide	50.0	43.2		ug/Kg		86	45 - 150
Carbon tetrachloride	50.0	49.0		ug/Kg		98	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	56.9		ug/Kg		114	66 - 150
Bromomethane	50.0	39.8		ug/Kg		80	52 - 135
Bromoform	50.0	52.2		ug/Kg		104	77 - 135
Chloroethane	50.0	37.5		ug/Kg		75	51 - 145
Chloroform	50.0	48.4		ug/Kg		97	73 - 123
Chlorobromomethane	50.0	47.0		ug/Kg		94	74 - 135
Dichlorobromomethane	50.0	55.4		ug/Kg		111	73 - 135
Chlorodibromomethane	50.0	60.8		ug/Kg		122	77 - 135
Isopropylbenzene	50.0	51.8		ug/Kg		104	74 - 137
2-Hexanone	200	231		ug/Kg		116	67 - 150
Chloromethane	50.0	42.6		ug/Kg		85	41 - 138
Dichlorodifluoromethane	50.0	36.1		ug/Kg		72	32 - 152
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	77 - 135
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	71 - 135
Methylene Chloride	50.0	49.5		ug/Kg		99	76 - 136
Methyl tert-butyl ether	50.0	42.6		ug/Kg		85	71 - 141
4-Methyl-2-pentanone (MIBK)	200	228		ug/Kg		114	69 - 150
Styrene	50.0	48.3		ug/Kg		97	76 - 135
1,1,1,2-Tetrachloroethane	50.0	59.8		ug/Kg		120	65 - 135
1,2,3-Trichlorobenzene	50.0	46.3		ug/Kg		93	62 - 135
1,2,4-Trichlorobenzene	50.0	45.7		ug/Kg		91	65 - 135
Toluene	50.0	48.6		ug/Kg		97	77 - 122
1,1,1-Trichloroethane	50.0	44.9		ug/Kg		90	70 - 135
1,1,2-Trichloroethane	50.0	50.3		ug/Kg		101	78 - 135
Trichloroethene	50.0	48.0		ug/Kg		96	77 - 135
Vinyl chloride	50.0	36.0		ug/Kg		72	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153984/2-A

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	95.7		ug/Kg		96	77 - 135
o-Xylene	50.0	48.0		ug/Kg		96	75 - 135
Tetrachloroethene	50.0	50.1		ug/Kg		100	76 - 135
1,2-Dichlorobenzene	50.0	49.6		ug/Kg		99	73 - 135
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	69 - 135
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	73 - 135
cis-1,2-Dichloroethene	50.0	45.9		ug/Kg		92	76 - 135
cis-1,3-Dichloropropene	50.0	63.2		ug/Kg		126	71 - 135
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 135
1,1-Dichloroethene	50.0	54.4		ug/Kg		109	79 - 135
1,2-Dichloroethane	50.0	52.4		ug/Kg		105	69 - 135
1,2-Dichloropropane	50.0	53.2		ug/Kg		106	72 - 121
Ethylbenzene	50.0	48.7		ug/Kg		97	73 - 125
1,2-Dibromoethane	50.0	55.5		ug/Kg		111	76 - 135
Trichlorofluoromethane	50.0	34.8		ug/Kg		70	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Lab Sample ID: 280-37285-3 MS

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: NW-02-25

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		226	203		ug/Kg	☼	90	65 - 150
2-Butanone (MEK)	ND		226	398		ug/Kg	☼	176	45 - 177
Benzene	ND		56.6	48.6		ug/Kg	☼	86	75 - 135
Chlorobenzene	ND		56.6	47.0		ug/Kg	☼	83	78 - 135
Carbon disulfide	ND		56.6	38.1		ug/Kg	☼	67	45 - 150
Carbon tetrachloride	ND		56.6	49.8		ug/Kg	☼	88	69 - 138
1,2-Dibromo-3-Chloropropane	ND		56.6	54.4		ug/Kg	☼	96	66 - 150
Bromomethane	ND		56.6	38.1		ug/Kg	☼	67	52 - 135
Bromoform	ND		56.6	50.1		ug/Kg	☼	88	77 - 135
Chloroethane	ND		56.6	34.1		ug/Kg	☼	60	51 - 145
Chloroform	ND		56.6	47.7		ug/Kg	☼	84	73 - 123
Chlorobromomethane	ND		56.6	50.6		ug/Kg	☼	89	74 - 135
Dichlorobromomethane	ND		56.6	53.6		ug/Kg	☼	95	73 - 135
Chlorodibromomethane	ND		56.6	58.7		ug/Kg	☼	104	77 - 135
Isopropylbenzene	ND		56.6	46.4		ug/Kg	☼	82	74 - 137
2-Hexanone	ND		226	191		ug/Kg	☼	84	67 - 150
Chloromethane	ND		56.6	40.9		ug/Kg	☼	72	41 - 138
Dichlorodifluoromethane	ND		56.6	33.8		ug/Kg	☼	60	32 - 152
trans-1,2-Dichloroethene	ND		56.6	45.0		ug/Kg	☼	80	77 - 135
trans-1,3-Dichloropropene	ND		56.6	51.1		ug/Kg	☼	90	71 - 135
Methylene Chloride	ND		56.6	49.7		ug/Kg	☼	88	76 - 136

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37285-3 MS

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: NW-02-25

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Methyl tert-butyl ether	ND		56.6	43.5		ug/Kg	*	77	71 - 141	
4-Methyl-2-pentanone (MIBK)	ND		226	214		ug/Kg	*	95	69 - 150	
Styrene	ND		56.6	42.1	F	ug/Kg	*	74	76 - 135	
1,1,1,2-Tetrachloroethane	ND		56.6	54.2		ug/Kg	*	96	65 - 135	
1,2,3-Trichlorobenzene	ND		56.6	28.6	F	ug/Kg	*	50	62 - 135	
1,2,4-Trichlorobenzene	ND		56.6	27.6	F	ug/Kg	*	49	65 - 135	
Toluene	ND		56.6	47.5		ug/Kg	*	84	77 - 122	
1,1,1-Trichloroethane	ND		56.6	45.4		ug/Kg	*	80	70 - 135	
1,1,2-Trichloroethane	ND		56.6	55.0		ug/Kg	*	97	78 - 135	
Trichloroethene	ND		56.6	49.0		ug/Kg	*	87	77 - 135	
Vinyl chloride	ND		56.6	34.6		ug/Kg	*	61	43 - 145	
m-Xylene & p-Xylene	ND		113	87.2		ug/Kg	*	77	77 - 135	
o-Xylene	ND		56.6	43.7		ug/Kg	*	77	75 - 135	
Tetrachloroethene	ND		56.6	50.1		ug/Kg	*	89	76 - 135	
1,2-Dichlorobenzene	ND		56.6	39.9	F	ug/Kg	*	70	73 - 135	
1,3-Dichlorobenzene	ND		56.6	38.5	F	ug/Kg	*	68	69 - 135	
1,4-Dichlorobenzene	ND		56.6	38.1	F	ug/Kg	*	67	73 - 135	
cis-1,2-Dichloroethene	ND		56.6	46.1		ug/Kg	*	81	76 - 135	
cis-1,3-Dichloropropene	ND	^	56.6	58.6		ug/Kg	*	104	71 - 135	
1,1-Dichloroethane	ND		56.6	47.1		ug/Kg	*	83	70 - 135	
1,1-Dichloroethene	ND		56.6	58.2		ug/Kg	*	103	79 - 135	
1,2-Dichloroethane	ND		56.6	51.1		ug/Kg	*	90	69 - 135	
1,2-Dichloropropane	ND		56.6	51.0		ug/Kg	*	90	72 - 121	
Ethylbenzene	ND		56.6	45.0		ug/Kg	*	80	73 - 125	
1,2-Dibromoethane	ND		56.6	54.6		ug/Kg	*	96	76 - 135	
Trichlorofluoromethane	ND		56.6	33.7		ug/Kg	*	60	48 - 150	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

Lab Sample ID: 280-37285-3 MSD

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: NW-02-25

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acetone	ND		228	205		ug/Kg	*	90	65 - 150	1	28	
2-Butanone (MEK)	ND		228	402		ug/Kg	*	177	45 - 177	1	32	
Benzene	ND		56.9	47.9		ug/Kg	*	84	75 - 135	1	20	
Chlorobenzene	ND		56.9	45.1		ug/Kg	*	79	78 - 135	4	20	
Carbon disulfide	ND		56.9	38.5		ug/Kg	*	68	45 - 150	1	24	
Carbon tetrachloride	ND		56.9	49.1		ug/Kg	*	86	69 - 138	1	20	
1,2-Dibromo-3-Chloropropane	ND		56.9	57.8		ug/Kg	*	102	66 - 150	6	28	
Bromomethane	ND		56.9	38.8		ug/Kg	*	68	52 - 135	2	22	
Bromoform	ND		56.9	51.1		ug/Kg	*	90	77 - 135	2	20	
Chloroethane	ND		56.9	34.0		ug/Kg	*	60	51 - 145	0	22	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37285-3 MSD

Matrix: Solid

Analysis Batch: 153976

Client Sample ID: NW-02-25

Prep Type: Total/NA

Prep Batch: 153984

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		56.9	47.3		ug/Kg	*	83	73 - 123	1	20
Chlorobromomethane	ND		56.9	50.2		ug/Kg	*	88	74 - 135	1	21
Dichlorobromomethane	ND		56.9	53.7		ug/Kg	*	94	73 - 135	0	20
Chlorodibromomethane	ND		56.9	58.2		ug/Kg	*	102	77 - 135	1	20
Isopropylbenzene	ND		56.9	43.9		ug/Kg	*	77	74 - 137	5	20
2-Hexanone	ND		228	200		ug/Kg	*	88	67 - 150	4	29
Chloromethane	ND		56.9	41.3		ug/Kg	*	73	41 - 138	1	25
Dichlorodifluoromethane	ND		56.9	34.5		ug/Kg	*	61	32 - 152	2	28
trans-1,2-Dichloroethene	ND		56.9	45.0		ug/Kg	*	79	77 - 135	0	20
trans-1,3-Dichloropropene	ND		56.9	50.8		ug/Kg	*	89	71 - 135	1	20
Methylene Chloride	ND		56.9	49.7		ug/Kg	*	87	76 - 136	0	21
Methyl tert-butyl ether	ND		56.9	43.8		ug/Kg	*	77	71 - 141	1	20
4-Methyl-2-pentanone (MIBK)	ND		228	226		ug/Kg	*	99	69 - 150	5	25
Styrene	ND		56.9	40.5	F	ug/Kg	*	71	76 - 135	4	20
1,1,2,2-Tetrachloroethane	ND		56.9	55.9		ug/Kg	*	98	65 - 135	3	21
1,2,3-Trichlorobenzene	ND		56.9	32.4	F	ug/Kg	*	57	62 - 135	13	31
1,2,4-Trichlorobenzene	ND		56.9	30.6	F	ug/Kg	*	54	65 - 135	11	26
Toluene	ND		56.9	46.1		ug/Kg	*	81	77 - 122	3	20
1,1,1-Trichloroethane	ND		56.9	44.9		ug/Kg	*	79	70 - 135	1	20
1,1,2-Trichloroethane	ND		56.9	54.8		ug/Kg	*	96	78 - 135	0	20
Trichloroethene	ND		56.9	47.7		ug/Kg	*	84	77 - 135	3	20
Vinyl chloride	ND		56.9	35.6		ug/Kg	*	63	43 - 145	3	24
m-Xylene & p-Xylene	ND		114	83.0	F	ug/Kg	*	73	77 - 135	5	20
o-Xylene	ND		56.9	41.7	F	ug/Kg	*	73	75 - 135	5	20
Tetrachloroethene	ND		56.9	48.6		ug/Kg	*	86	76 - 135	3	20
1,2-Dichlorobenzene	ND		56.9	39.9	F	ug/Kg	*	70	73 - 135	0	20
1,3-Dichlorobenzene	ND		56.9	38.2	F	ug/Kg	*	67	69 - 135	1	20
1,4-Dichlorobenzene	ND		56.9	37.5	F	ug/Kg	*	66	73 - 135	2	22
cis-1,2-Dichloroethene	ND		56.9	45.7		ug/Kg	*	80	76 - 135	1	20
cis-1,3-Dichloropropene	ND	^	56.9	57.9		ug/Kg	*	102	71 - 135	1	20
1,1-Dichloroethane	ND		56.9	46.5		ug/Kg	*	82	70 - 135	1	20
1,1-Dichloroethene	ND		56.9	57.3		ug/Kg	*	101	79 - 135	2	20
1,2-Dichloroethane	ND		56.9	51.1		ug/Kg	*	90	69 - 135	0	20
1,2-Dichloropropane	ND		56.9	50.2		ug/Kg	*	88	72 - 121	2	20
Ethylbenzene	ND		56.9	43.3		ug/Kg	*	76	73 - 125	4	20
1,2-Dibromoethane	ND		56.9	55.0		ug/Kg	*	97	76 - 135	1	20
Trichlorofluoromethane	ND		56.9	34.8		ug/Kg	*	61	48 - 150	3	33

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		58 - 140
Toluene-d8 (Surr)	104		80 - 126
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	90		75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153993/6

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			12/28/12 11:08	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			12/28/12 11:08	1
Benzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
Chlorobenzene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Carbon disulfide	ND		2.0	0.45	ug/L			12/28/12 11:08	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Cyclohexane	ND		2.0	0.28	ug/L			12/28/12 11:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			12/28/12 11:08	1
Bromomethane	ND		2.0	0.21	ug/L			12/28/12 11:08	1
Bromoform	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Chloroethane	ND		2.0	0.41	ug/L			12/28/12 11:08	1
Chloroform	ND		1.0	0.16	ug/L			12/28/12 11:08	1
Chlorobromomethane	ND		1.0	0.10	ug/L			12/28/12 11:08	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Isopropylbenzene	ND		1.0	0.19	ug/L			12/28/12 11:08	1
2-Hexanone	ND		5.0	1.7	ug/L			12/28/12 11:08	1
Chloromethane	ND		2.0	0.30	ug/L			12/28/12 11:08	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			12/28/12 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			12/28/12 11:08	1
Methylene Chloride	0.490	J	2.0	0.32	ug/L			12/28/12 11:08	1
Methyl acetate	ND		5.0	1.6	ug/L			12/28/12 11:08	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			12/28/12 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/28/12 11:08	1
Methylcyclohexane	ND		1.0	0.36	ug/L			12/28/12 11:08	1
Styrene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/28/12 11:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 11:08	1
Toluene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/28/12 11:08	1
Trichloroethene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			12/28/12 11:08	1
Vinyl chloride	ND		1.0	0.10	ug/L			12/28/12 11:08	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			12/28/12 11:08	1
o-Xylene	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Tetrachloroethene	ND		1.0	0.20	ug/L			12/28/12 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			12/28/12 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/28/12 11:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/28/12 11:08	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			12/28/12 11:08	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			12/28/12 11:08	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153993/6

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		200	57	ug/L			12/28/12 11:08	1
Ethylbenzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			12/28/12 11:08	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			12/28/12 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 127		12/28/12 11:08	1
Toluene-d8 (Surr)	83		80 - 125		12/28/12 11:08	1
4-Bromofluorobenzene (Surr)	81		78 - 120		12/28/12 11:08	1
Dibromofluoromethane (Surr)	93		77 - 120		12/28/12 11:08	1

Lab Sample ID: LCS 280-153993/23

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.3		ug/L		102	50 - 156
2-Butanone (MEK)	20.0	26.6		ug/L		133	44 - 150
Benzene	5.00	5.39		ug/L		108	74 - 135
Chlorobenzene	5.00	5.09		ug/L		102	76 - 135
Carbon disulfide	5.00	4.77		ug/L		95	34 - 150
Carbon tetrachloride	5.00	5.24		ug/L		105	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.55	J	ug/L		91	65 - 150
Bromomethane	5.00	4.21		ug/L		84	38 - 150
Bromoform	5.00	4.57		ug/L		91	62 - 135
Chloroethane	5.00	4.31		ug/L		86	46 - 147
Chloroform	5.00	5.12		ug/L		102	76 - 120
Chlorobromomethane	5.00	5.03		ug/L		101	70 - 135
Dichlorobromomethane	5.00	5.25		ug/L		105	73 - 135
Chlorodibromomethane	5.00	4.41		ug/L		88	68 - 135
Isopropylbenzene	5.00	5.09		ug/L		102	75 - 135
2-Hexanone	20.0	18.0		ug/L		90	47 - 150
Chloromethane	5.00	4.34		ug/L		87	34 - 145
Dichlorodifluoromethane	5.00	3.94		ug/L		79	28 - 152
trans-1,2-Dichloroethene	5.00	5.54		ug/L		111	75 - 135
trans-1,3-Dichloropropene	5.00	5.01		ug/L		100	68 - 135
Methylene Chloride	5.00	5.29		ug/L		106	54 - 141
Methyl tert-butyl ether	5.00	5.07		ug/L		101	46 - 135
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/L		96	53 - 150
Styrene	5.00	4.85		ug/L		97	68 - 135
1,1,2,2-Tetrachloroethane	5.00	5.55		ug/L		111	66 - 135
1,2,3-Trichlorobenzene	5.00	4.70		ug/L		94	60 - 135
1,2,4-Trichlorobenzene	5.00	4.53		ug/L		91	64 - 135
Toluene	5.00	5.73		ug/L		115	73 - 120
1,1,1-Trichloroethane	5.00	5.23		ug/L		105	70 - 135
1,1,2-Trichloroethane	5.00	5.08		ug/L		102	73 - 135
Trichloroethene	5.00	5.13		ug/L		103	73 - 135
Vinyl chloride	5.00	4.08		ug/L		82	40 - 144

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153993/23

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	74 - 135
o-Xylene	5.00	4.85		ug/L		97	73 - 135
Tetrachloroethene	5.00	4.99		ug/L		100	70 - 135
1,2-Dichlorobenzene	5.00	5.17		ug/L		103	75 - 135
1,3-Dichlorobenzene	5.00	5.13		ug/L		103	74 - 135
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	75 - 135
cis-1,2-Dichloroethene	5.00	5.31		ug/L		106	73 - 135
cis-1,3-Dichloropropene	5.00	4.35		ug/L		87	66 - 135
1,1-Dichloroethane	5.00	5.15		ug/L		103	75 - 135
1,1-Dichloroethene	5.00	6.12		ug/L		122	71 - 136
1,2-Dichloroethane	5.00	5.11		ug/L		102	70 - 135
1,2-Dichloropropane	5.00	5.13		ug/L		103	71 - 120
Ethylbenzene	5.00	5.14		ug/L		103	72 - 120
1,2-Dibromoethane	5.00	5.05		ug/L		101	71 - 135
Trichlorofluoromethane	5.00	4.08		ug/L		82	47 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 127
Toluene-d8 (Surr)	85		80 - 125
4-Bromofluorobenzene (Surr)	84		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120

Lab Sample ID: 280-37297-N-1 MS

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		20.0	21.3		ug/L		107	50 - 156
2-Butanone (MEK)	ND		20.0	29.0		ug/L		145	44 - 150
Benzene	ND		5.00	5.64		ug/L		113	74 - 135
Chlorobenzene	ND		5.00	5.35		ug/L		107	76 - 135
Carbon disulfide	ND		5.00	4.76		ug/L		95	34 - 150
Carbon tetrachloride	ND		5.00	5.52		ug/L		110	67 - 135
1,2-Dibromo-3-Chloropropane	ND		5.00	4.56	J	ug/L		91	65 - 150
Bromomethane	ND		5.00	4.22		ug/L		84	38 - 150
Bromoform	ND		5.00	4.90		ug/L		98	62 - 135
Chloroethane	ND		5.00	4.53		ug/L		91	46 - 147
Chloroform	ND		5.00	5.46		ug/L		109	76 - 120
Chlorobromomethane	ND		5.00	5.30		ug/L		106	70 - 135
Dichlorobromomethane	ND		5.00	5.62		ug/L		112	73 - 135
Chlorodibromomethane	ND		5.00	4.78		ug/L		96	68 - 135
Isopropylbenzene	ND		5.00	5.18		ug/L		104	75 - 135
2-Hexanone	ND		20.0	19.1		ug/L		95	47 - 150
Chloromethane	ND		5.00	4.25		ug/L		85	34 - 145
Dichlorodifluoromethane	ND		5.00	4.16		ug/L		83	28 - 152
trans-1,2-Dichloroethene	ND		5.00	5.79		ug/L		116	75 - 135
trans-1,3-Dichloropropene	ND		5.00	5.33		ug/L		107	68 - 135
Methylene Chloride	ND		5.00	5.35		ug/L		107	54 - 141

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37297-N-1 MS

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	ND		5.00	5.61		ug/L		112	46 - 135
4-Methyl-2-pentanone (MIBK)	ND		20.0	20.3		ug/L		102	53 - 150
Styrene	ND		5.00	4.94		ug/L		99	68 - 135
1,1,2,2-Tetrachloroethane	ND		5.00	6.09		ug/L		122	66 - 135
1,2,3-Trichlorobenzene	ND		5.00	5.30		ug/L		106	60 - 135
1,2,4-Trichlorobenzene	ND		5.00	4.76		ug/L		95	64 - 135
Toluene	ND		5.00	5.96		ug/L		119	73 - 120
1,1,1-Trichloroethane	ND		5.00	5.44		ug/L		109	70 - 135
1,1,2-Trichloroethane	ND		5.00	5.48		ug/L		110	73 - 135
Trichloroethene	ND		5.00	5.15		ug/L		103	73 - 135
Vinyl chloride	ND		5.00	4.15		ug/L		83	40 - 144
m-Xylene & p-Xylene	ND		10.0	10.7		ug/L		107	74 - 135
o-Xylene	ND		5.00	5.04		ug/L		101	73 - 135
Tetrachloroethene	ND		5.00	5.35		ug/L		107	70 - 135
1,2-Dichlorobenzene	ND		5.00	5.35		ug/L		107	75 - 135
1,3-Dichlorobenzene	ND		5.00	5.41		ug/L		108	74 - 135
1,4-Dichlorobenzene	ND		5.00	5.39		ug/L		108	75 - 135
cis-1,2-Dichloroethene	ND		5.00	5.62		ug/L		112	73 - 135
cis-1,3-Dichloropropene	ND		5.00	4.37		ug/L		87	66 - 135
1,1-Dichloroethane	ND		5.00	5.42		ug/L		108	75 - 135
1,1-Dichloroethene	ND		5.00	6.51		ug/L		130	71 - 136
1,2-Dichloroethane	ND		5.00	5.68		ug/L		114	70 - 135
1,2-Dichloropropane	ND		5.00	5.48		ug/L		110	71 - 120
Ethylbenzene	ND		5.00	5.25		ug/L		105	72 - 120
1,2-Dibromoethane	ND		5.00	5.61		ug/L		112	71 - 135
Trichlorofluoromethane	ND		5.00	4.22		ug/L		84	47 - 150

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	93		80 - 125
4-Bromofluorobenzene (Surr)	91		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Lab Sample ID: 280-37297-N-1 MSD

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	ND		20.0	22.1		ug/L		111	50 - 156	4	41
2-Butanone (MEK)	ND		20.0	30.7	F	ug/L		154	44 - 150	6	32
Benzene	ND		5.00	5.61		ug/L		112	74 - 135	1	20
Chlorobenzene	ND		5.00	5.34		ug/L		107	76 - 135	0	20
Carbon disulfide	ND		5.00	4.83		ug/L		97	34 - 150	2	20
Carbon tetrachloride	ND		5.00	5.35		ug/L		107	67 - 135	3	21
1,2-Dibromo-3-Chloropropane	ND		5.00	5.05		ug/L		101	65 - 150	10	22
Bromomethane	ND		5.00	4.22		ug/L		84	38 - 150	0	24
Bromoform	ND		5.00	4.99		ug/L		100	62 - 135	2	21
Chloroethane	ND		5.00	4.37		ug/L		87	46 - 147	4	25

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37297-N-1 MSD

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		5.00	5.46		ug/L		109	76 - 120	0	20
Chlorobromomethane	ND		5.00	5.44		ug/L		109	70 - 135	3	20
Dichlorobromomethane	ND		5.00	5.58		ug/L		112	73 - 135	1	20
Chlorodibromomethane	ND		5.00	4.90		ug/L		98	68 - 135	2	20
Isopropylbenzene	ND		5.00	5.28		ug/L		106	75 - 135	2	20
2-Hexanone	ND		20.0	20.7		ug/L		104	47 - 150	8	25
Chloromethane	ND		5.00	4.13		ug/L		83	34 - 145	3	24
Dichlorodifluoromethane	ND		5.00	4.31		ug/L		86	28 - 152	3	24
trans-1,2-Dichloroethene	ND		5.00	5.85		ug/L		117	75 - 135	1	24
trans-1,3-Dichloropropene	ND		5.00	5.50		ug/L		110	68 - 135	3	20
Methylene Chloride	ND		5.00	5.47		ug/L		109	54 - 141	2	20
Methyl tert-butyl ether	ND		5.00	5.89		ug/L		118	46 - 135	5	21
4-Methyl-2-pentanone (MIBK)	ND		20.0	21.3		ug/L		107	53 - 150	5	22
Styrene	ND		5.00	5.04		ug/L		101	68 - 135	2	20
1,1,2,2-Tetrachloroethane	ND		5.00	6.29		ug/L		126	66 - 135	3	20
1,2,3-Trichlorobenzene	ND		5.00	5.50		ug/L		110	60 - 135	4	29
1,2,4-Trichlorobenzene	ND		5.00	5.16		ug/L		103	64 - 135	8	25
Toluene	ND		5.00	6.03	F	ug/L		121	73 - 120	1	20
1,1,1-Trichloroethane	ND		5.00	5.46		ug/L		109	70 - 135	0	20
1,1,2-Trichloroethane	ND		5.00	5.82		ug/L		116	73 - 135	6	21
Trichloroethene	ND		5.00	5.18		ug/L		104	73 - 135	1	20
Vinyl chloride	ND		5.00	4.09		ug/L		82	40 - 144	2	24
m-Xylene & p-Xylene	ND		10.0	10.7		ug/L		107	74 - 135	0	20
o-Xylene	ND		5.00	5.13		ug/L		103	73 - 135	2	20
Tetrachloroethene	ND		5.00	5.30		ug/L		106	70 - 135	1	20
1,2-Dichlorobenzene	ND		5.00	5.50		ug/L		110	75 - 135	3	20
1,3-Dichlorobenzene	ND		5.00	5.38		ug/L		108	74 - 135	1	20
1,4-Dichlorobenzene	ND		5.00	5.36		ug/L		107	75 - 135	1	23
cis-1,2-Dichloroethene	ND		5.00	5.67		ug/L		113	73 - 135	1	20
cis-1,3-Dichloropropene	ND		5.00	4.56		ug/L		91	66 - 135	4	20
1,1-Dichloroethane	ND		5.00	5.41		ug/L		108	75 - 135	0	21
1,1-Dichloroethene	ND		5.00	6.48		ug/L		130	71 - 136	1	20
1,2-Dichloroethane	ND		5.00	5.76		ug/L		115	70 - 135	1	20
1,2-Dichloropropane	ND		5.00	5.48		ug/L		110	71 - 120	0	20
Ethylbenzene	ND		5.00	5.33		ug/L		107	72 - 120	2	26
1,2-Dibromoethane	ND		5.00	5.51		ug/L		110	71 - 135	2	20
Trichlorofluoromethane	ND		5.00	4.19		ug/L		84	47 - 150	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	92		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-153406/1-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.8	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,2,4-Trichlorobenzene	ND		4.0	0.28	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,2-Dichlorobenzene	ND		4.0	0.23	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,3-Dichlorobenzene	ND		10	0.30	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,4-Dichlorobenzene	ND		4.0	0.32	ug/L		12/22/12 15:00	12/27/12 10:39	1
1,4-Dioxane	ND		20	1.7	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4,6-Trichlorophenol	ND		10	0.29	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,3,4,6-Tetrachlorophenol	ND		50	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4,5-Trichlorophenol	ND		10	0.45	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4-Dinitrophenol	ND		30	10	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		12/22/12 15:00	12/27/12 10:39	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Chloronaphthalene	ND		4.0	0.26	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Chlorophenol	ND		10	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Methylnaphthalene	ND		4.0	0.29	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Methylphenol	ND		10	0.98	ug/L		12/22/12 15:00	12/27/12 10:39	1
3 & 4 Methylphenol	ND		10	0.25	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Nitroaniline	ND		10	1.7	ug/L		12/22/12 15:00	12/27/12 10:39	1
2-Nitrophenol	ND		10	0.39	ug/L		12/22/12 15:00	12/27/12 10:39	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
3-Nitroaniline	ND		10	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
4,6-Dinitro-2-methylphenol	ND		50	4.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Chloroaniline	ND		10	2.1	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Nitroaniline	ND		10	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
4-Nitrophenol	ND		10	1.2	ug/L		12/22/12 15:00	12/27/12 10:39	1
Acenaphthene	ND		4.0	0.28	ug/L		12/22/12 15:00	12/27/12 10:39	1
Acenaphthylene	ND		4.0	0.49	ug/L		12/22/12 15:00	12/27/12 10:39	1
Acetophenone	ND		10	0.24	ug/L		12/22/12 15:00	12/27/12 10:39	1
Anthracene	ND		4.0	0.42	ug/L		12/22/12 15:00	12/27/12 10:39	1
Atrazine	ND		10	0.73	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzaldehyde	ND		10	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzo[a]pyrene	ND		4.0	0.31	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzo[b]fluoranthene	ND		4.0	0.53	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzo[g,h,i]perylene	ND		4.0	0.50	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzo[k]fluoranthene	ND		4.0	0.46	ug/L		12/22/12 15:00	12/27/12 10:39	1
Benzo[a]anthracene	ND		4.0	0.35	ug/L		12/22/12 15:00	12/27/12 10:39	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		12/22/12 15:00	12/27/12 10:39	1
Bis(2-chloroethyl)ether	ND		10	0.41	ug/L		12/22/12 15:00	12/27/12 10:39	1
Bis(2-ethylhexyl) phthalate	ND		10	0.56	ug/L		12/22/12 15:00	12/27/12 10:39	1
Butyl benzyl phthalate	ND		4.0	1.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
Caprolactam	ND		10	5.0	ug/L		12/22/12 15:00	12/27/12 10:39	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153406/1-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153406

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbazole	ND		4.0	0.43	ug/L		12/22/12 15:00	12/27/12 10:39	1
Chrysene	ND		4.0	0.54	ug/L		12/22/12 15:00	12/27/12 10:39	1
Dibenz(a,h)anthracene	ND		4.0	0.51	ug/L		12/22/12 15:00	12/27/12 10:39	1
Di-n-butyl phthalate	ND		4.0	1.2	ug/L		12/22/12 15:00	12/27/12 10:39	1
Di-n-octyl phthalate	ND		4.0	0.35	ug/L		12/22/12 15:00	12/27/12 10:39	1
Dibenzofuran	ND		4.0	0.29	ug/L		12/22/12 15:00	12/27/12 10:39	1
Diethyl phthalate	ND		4.0	0.38	ug/L		12/22/12 15:00	12/27/12 10:39	1
Dimethyl phthalate	ND		4.0	0.21	ug/L		12/22/12 15:00	12/27/12 10:39	1
Fluoranthene	ND		4.0	0.20	ug/L		12/22/12 15:00	12/27/12 10:39	1
Fluorene	ND		4.0	0.31	ug/L		12/22/12 15:00	12/27/12 10:39	1
Hexachlorobenzene	ND		10	0.66	ug/L		12/22/12 15:00	12/27/12 10:39	1
Hexachlorobutadiene	ND		10	3.3	ug/L		12/22/12 15:00	12/27/12 10:39	1
Hexachlorocyclopentadiene	ND		50	10	ug/L		12/22/12 15:00	12/27/12 10:39	1
Hexachloroethane	ND		10	2.1	ug/L		12/22/12 15:00	12/27/12 10:39	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.65	ug/L		12/22/12 15:00	12/27/12 10:39	1
Isophorone	ND		10	0.21	ug/L		12/22/12 15:00	12/27/12 10:39	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		12/22/12 15:00	12/27/12 10:39	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10	0.44	ug/L		12/22/12 15:00	12/27/12 10:39	1
Naphthalene	ND		4.0	0.29	ug/L		12/22/12 15:00	12/27/12 10:39	1
Nitrobenzene	ND		10	0.81	ug/L		12/22/12 15:00	12/27/12 10:39	1
Pentachlorophenol	ND		50	20	ug/L		12/22/12 15:00	12/27/12 10:39	1
Phenanthrene	ND		4.0	0.26	ug/L		12/22/12 15:00	12/27/12 10:39	1
Phenol	ND		10	2.0	ug/L		12/22/12 15:00	12/27/12 10:39	1
Pyrene	ND		10	0.37	ug/L		12/22/12 15:00	12/27/12 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	89		51 - 120	12/22/12 15:00	12/27/12 10:39	1
Phenol-d5	92		51 - 120	12/22/12 15:00	12/27/12 10:39	1
2,4,6-Tribromophenol	78		57 - 120	12/22/12 15:00	12/27/12 10:39	1
2-Fluorobiphenyl	85		38 - 120	12/22/12 15:00	12/27/12 10:39	1
Nitrobenzene-d5	92		48 - 120	12/22/12 15:00	12/27/12 10:39	1
Terphenyl-d14	95		50 - 120	12/22/12 15:00	12/27/12 10:39	1

Lab Sample ID: LCS 280-153406/2-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dichlorobenzene	80.0	67.4		ug/L		84	28 - 120
1,3-Dichlorobenzene	80.0	66.5		ug/L		83	24 - 120
1,4-Dichlorobenzene	80.0	67.0		ug/L		84	25 - 120
2,4,6-Trichlorophenol	80.0	77.4		ug/L		97	62 - 120
2,4-Dichlorophenol	80.0	73.0		ug/L		91	62 - 120
2,2'-oxybis[1-chloropropane]	80.0	70.2		ug/L		88	49 - 120
2,4,5-Trichlorophenol	80.0	76.5		ug/L		96	64 - 120
2,4-Dimethylphenol	80.0	64.4		ug/L		80	44 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153406/2-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153406

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
2,4-Dinitrophenol	80.0	63.0		ug/L		79	55 - 120
2,4-Dinitrotoluene	80.0	83.3		ug/L		104	76 - 120
2,6-Dinitrotoluene	80.0	79.8		ug/L		100	73 - 120
2-Chloronaphthalene	80.0	71.3		ug/L		89	51 - 120
2-Chlorophenol	80.0	74.3		ug/L		93	58 - 120
2-Methylnaphthalene	80.0	68.0		ug/L		85	42 - 120
2-Methylphenol	80.0	73.2		ug/L		91	62 - 120
3 & 4 Methylphenol	160	149		ug/L		93	58 - 120
2-Nitroaniline	80.0	83.2		ug/L		104	70 - 120
2-Nitrophenol	80.0	78.8		ug/L		98	59 - 120
3,3'-Dichlorobenzidine	80.0	43.3	J	ug/L		54	10 - 120
3-Nitroaniline	80.0	74.2		ug/L		93	70 - 120
4,6-Dinitro-2-methylphenol	80.0	73.8		ug/L		92	63 - 125
4-Bromophenyl phenyl ether	80.0	74.1		ug/L		93	69 - 120
4-Chloro-3-methylphenol	80.0	76.4		ug/L		95	69 - 120
4-Chloroaniline	80.0	63.1		ug/L		79	60 - 120
4-Chlorophenyl phenyl ether	80.0	74.4		ug/L		93	67 - 120
4-Nitroaniline	80.0	77.0		ug/L		96	70 - 120
4-Nitrophenol	80.0	77.5		ug/L		97	59 - 129
Acenaphthene	80.0	71.9		ug/L		90	61 - 120
Acenaphthylene	80.0	75.1		ug/L		94	63 - 120
Anthracene	80.0	74.4		ug/L		93	71 - 120
Benzo[a]pyrene	80.0	66.2		ug/L		83	63 - 120
Benzo[b]fluoranthene	80.0	83.6		ug/L		104	65 - 120
Benzo[g,h,i]perylene	80.0	75.8		ug/L		95	69 - 120
Benzo[k]fluoranthene	80.0	70.1		ug/L		88	66 - 120
Benzo[a]anthracene	80.0	74.4		ug/L		93	71 - 120
Bis(2-chloroethoxy)methane	80.0	71.8		ug/L		90	64 - 120
Bis(2-chloroethyl)ether	80.0	91.8		ug/L		115	60 - 120
Bis(2-ethylhexyl) phthalate	80.0	83.0		ug/L		104	62 - 133
Butyl benzyl phthalate	80.0	84.7		ug/L		106	71 - 120
Carbazole	80.0	75.7		ug/L		95	72 - 120
Chrysene	80.0	76.8		ug/L		96	69 - 120
Dibenz(a,h)anthracene	80.0	75.9		ug/L		95	63 - 120
Di-n-butyl phthalate	80.0	81.7		ug/L		102	75 - 120
Di-n-octyl phthalate	80.0	83.3		ug/L		104	71 - 120
Diethyl phthalate	80.0	78.7		ug/L		98	73 - 120
Dimethyl phthalate	80.0	77.5		ug/L		97	73 - 120
Fluoranthene	80.0	75.1		ug/L		94	73 - 120
Fluorene	80.0	74.1		ug/L		93	68 - 120
Hexachlorobenzene	80.0	71.1		ug/L		89	69 - 120
Hexachlorobutadiene	80.0	63.8		ug/L		80	24 - 120
Hexachlorocyclopentadiene	80.0	21.9	J	ug/L		27	10 - 120
Hexachloroethane	80.0	67.3		ug/L		84	21 - 120
Indeno[1,2,3-cd]pyrene	80.0	69.1		ug/L		86	63 - 120
Isophorone	80.0	77.6		ug/L		97	65 - 120
N-Nitrosodi-n-propylamine	80.0	79.0		ug/L		99	58 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153406/2-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Nitrosodiphenylamine(as diphenylamine)	68.3	63.3		ug/L		93	66 - 120
Naphthalene	80.0	68.8		ug/L		86	39 - 120
Nitrobenzene	80.0	75.2		ug/L		94	59 - 120
Pentachlorophenol	80.0	64.4		ug/L		81	57 - 120
Phenanthrene	80.0	75.2		ug/L		94	71 - 120
Phenol	80.0	74.5		ug/L		93	61 - 120
Pyrene	80.0	76.9		ug/L		96	71 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	89		51 - 120
Phenol-d5	93		51 - 120
2,4,6-Tribromophenol	91		57 - 120
2-Fluorobiphenyl	85		38 - 120
Nitrobenzene-d5	93		48 - 120
Terphenyl-d14	97		50 - 120

Lab Sample ID: LCSD 280-153406/3-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 153406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,4-Trichlorobenzene	80.0	63.7		ug/L		80	28 - 120	3	42
1,2-Dichlorobenzene	80.0	65.0		ug/L		81	28 - 120	4	49
1,3-Dichlorobenzene	80.0	63.6		ug/L		80	24 - 120	4	52
1,4-Dichlorobenzene	80.0	62.8		ug/L		78	25 - 120	7	52
2,4,6-Trichlorophenol	80.0	77.7		ug/L		97	62 - 120	0	30
2,4-Dichlorophenol	80.0	75.8		ug/L		95	62 - 120	4	30
2,2'-oxybis[1-chloropropane]	80.0	70.0		ug/L		87	49 - 120	0	30
2,4,5-Trichlorophenol	80.0	76.9		ug/L		96	64 - 120	0	30
2,4-Dimethylphenol	80.0	64.7		ug/L		81	44 - 120	0	30
2,4-Dinitrophenol	80.0	67.0		ug/L		84	55 - 120	6	49
2,4-Dinitrotoluene	80.0	85.9		ug/L		107	76 - 120	3	32
2,6-Dinitrotoluene	80.0	80.0		ug/L		100	73 - 120	0	30
2-Chloronaphthalene	80.0	71.6		ug/L		89	51 - 120	0	30
2-Chlorophenol	80.0	74.7		ug/L		93	58 - 120	1	30
2-Methylnaphthalene	80.0	67.5		ug/L		84	42 - 120	1	32
2-Methylphenol	80.0	73.8		ug/L		92	62 - 120	1	30
3 & 4 Methylphenol	160	149		ug/L		93	58 - 120	0	30
2-Nitroaniline	80.0	86.5		ug/L		108	70 - 120	4	30
2-Nitrophenol	80.0	80.6		ug/L		101	59 - 120	2	30
3,3'-Dichlorobenzidine	80.0	50.5		ug/L		63	10 - 120	15	30
3-Nitroaniline	80.0	75.0		ug/L		94	70 - 120	1	35
4,6-Dinitro-2-methylphenol	80.0	80.7		ug/L		101	63 - 125	9	37
4-Bromophenyl phenyl ether	80.0	75.3		ug/L		94	69 - 120	2	31
4-Chloro-3-methylphenol	80.0	78.8		ug/L		98	69 - 120	3	30
4-Chloroaniline	80.0	67.2		ug/L		84	60 - 120	6	54
4-Chlorophenyl phenyl ether	80.0	75.1		ug/L		94	67 - 120	1	30

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-153406/3-A

Matrix: Water

Analysis Batch: 153874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 153406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
4-Nitroaniline	80.0	80.6		ug/L		101	70 - 120	4	34	
4-Nitrophenol	80.0	84.8		ug/L		106	59 - 129	9	35	
Acenaphthene	80.0	72.8		ug/L		91	61 - 120	1	30	
Acenaphthylene	80.0	75.9		ug/L		95	63 - 120	1	30	
Anthracene	80.0	76.7		ug/L		96	71 - 120	3	30	
Benzo[a]pyrene	80.0	69.7		ug/L		87	63 - 120	5	30	
Benzo[b]fluoranthene	80.0	79.0		ug/L		99	65 - 120	6	38	
Benzo[g,h,i]perylene	80.0	78.2		ug/L		98	69 - 120	3	30	
Benzo[k]fluoranthene	80.0	78.0		ug/L		97	66 - 120	11	37	
Benzo[a]anthracene	80.0	78.1		ug/L		98	71 - 120	5	30	
Bis(2-chloroethoxy)methane	80.0	74.0		ug/L		93	64 - 120	3	30	
Bis(2-chloroethyl)ether	80.0	94.8		ug/L		118	60 - 120	3	34	
Bis(2-ethylhexyl) phthalate	80.0	87.0		ug/L		109	62 - 133	5	30	
Butyl benzyl phthalate	80.0	88.2		ug/L		110	71 - 120	4	30	
Carbazole	80.0	77.7		ug/L		97	72 - 120	3	30	
Chrysene	80.0	78.1		ug/L		98	69 - 120	2	30	
Dibenz(a,h)anthracene	80.0	77.8		ug/L		97	63 - 120	3	30	
Di-n-butyl phthalate	80.0	84.3		ug/L		105	75 - 120	3	30	
Di-n-octyl phthalate	80.0	86.2		ug/L		108	71 - 120	3	30	
Diethyl phthalate	80.0	80.0		ug/L		100	73 - 120	2	30	
Dimethyl phthalate	80.0	78.7		ug/L		98	73 - 120	2	30	
Fluoranthene	80.0	77.0		ug/L		96	73 - 120	3	34	
Fluorene	80.0	74.9		ug/L		94	68 - 120	1	30	
Hexachlorobenzene	80.0	73.4		ug/L		92	69 - 120	3	30	
Hexachlorobutadiene	80.0	61.1		ug/L		76	24 - 120	4	47	
Hexachlorocyclopentadiene	80.0	24.3	J	ug/L		30	10 - 120	10	72	
Hexachloroethane	80.0	63.3		ug/L		79	21 - 120	6	57	
Indeno[1,2,3-cd]pyrene	80.0	71.9		ug/L		90	63 - 120	4	30	
Isophorone	80.0	79.5		ug/L		99	65 - 120	2	30	
N-Nitrosodi-n-propylamine	80.0	79.7		ug/L		100	58 - 120	1	30	
n-Nitrosodiphenylamine(as diphenylamine)	68.3	64.9		ug/L		95	66 - 120	2	37	
Naphthalene	80.0	68.4		ug/L		86	39 - 120	1	34	
Nitrobenzene	80.0	77.0		ug/L		96	59 - 120	2	30	
Pentachlorophenol	80.0	67.2		ug/L		84	57 - 120	4	33	
Phenanthrene	80.0	75.7		ug/L		95	71 - 120	1	30	
Phenol	80.0	74.9		ug/L		94	61 - 120	0	42	
Pyrene	80.0	80.2		ug/L		100	71 - 120	4	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	91		51 - 120
Phenol-d5	93		51 - 120
2,4,6-Tribromophenol	92		57 - 120
2-Fluorobiphenyl	88		38 - 120
Nitrobenzene-d5	96		48 - 120
Terphenyl-d14	100		50 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-153611/1-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.53	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
4,4'-DDE	ND		1.6	0.23	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
4,4'-DDT	ND		1.6	0.57	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Aldrin	ND		1.6	0.24	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
alpha-BHC	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
beta-BHC	ND		1.6	0.64	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Chlordane (n.o.s.)	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
delta-BHC	ND		1.6	0.39	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Dieldrin	ND		1.6	0.20	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan I	ND		1.6	0.17	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan II	ND		1.6	0.28	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan sulfate	ND		1.6	0.27	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endrin	ND		1.6	0.29	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endrin aldehyde	ND		1.6	0.16	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
gamma-BHC (Lindane)	ND		1.6	0.45	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Heptachlor	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Heptachlor epoxide	ND		1.6	0.41	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Methoxychlor	ND		3.2	0.43	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Toxaphene	ND		64	15	ug/Kg		12/24/12 11:15	12/31/12 16:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		63 - 124	12/24/12 11:15	12/31/12 16:32	1
Tetrachloro-m-xylene	86		59 - 115	12/24/12 11:15	12/31/12 16:32	1

Lab Sample ID: LCS 280-153611/2-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	16.1		ug/Kg		98	54 - 130
4,4'-DDE	16.4	15.7		ug/Kg		96	58 - 121
4,4'-DDT	16.4	16.5		ug/Kg		101	57 - 133
Aldrin	16.4	14.2		ug/Kg		86	63 - 115
alpha-BHC	16.4	14.1		ug/Kg		86	64 - 116
beta-BHC	16.4	14.5		ug/Kg		89	67 - 115
delta-BHC	16.4	15.2		ug/Kg		93	67 - 115
Dieldrin	16.4	16.2		ug/Kg		99	65 - 127
Endosulfan I	16.4	15.5		ug/Kg		94	65 - 118
Endosulfan II	16.4	16.0		ug/Kg		98	71 - 118
Endosulfan sulfate	16.4	15.8		ug/Kg		96	67 - 123
Endrin	16.4	18.2		ug/Kg		111	77 - 134
Endrin aldehyde	16.4	9.56		ug/Kg		58	47 - 115
gamma-BHC (Lindane)	16.4	14.5		ug/Kg		88	63 - 118
Heptachlor	16.4	14.1		ug/Kg		86	68 - 115
Methoxychlor	16.4	16.2		ug/Kg		99	67 - 130

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-153611/2-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153611

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	94		63 - 124
Tetrachloro-m-xylene	85		59 - 115

Lab Sample ID: 280-37307-A-1-B MS

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit	Limit
4,4'-DDD	ND		16.0	ND	D	ug/Kg	*	0	54 - 130	
4,4'-DDE	ND		16.0	15.2	D	ug/Kg	*	95	58 - 121	
4,4'-DDT	ND		16.0	15.5	D	ug/Kg	*	97	57 - 133	
Aldrin	ND		16.0	15.4	D	ug/Kg	*	96	63 - 115	
alpha-BHC	ND		16.0	16.0	D	ug/Kg	*	100	64 - 116	
beta-BHC	ND		16.0	16.5	D	ug/Kg	*	103	67 - 115	
delta-BHC	ND		16.0	16.3	D	ug/Kg	*	102	67 - 115	
Dieldrin	ND		16.0	15.1	D	ug/Kg	*	94	65 - 127	
Endosulfan I	ND		16.0	14.6	D	ug/Kg	*	91	65 - 118	
Endosulfan II	ND		16.0	14.4	D	ug/Kg	*	90	71 - 118	
Endosulfan sulfate	ND		16.0	14.4	D	ug/Kg	*	90	67 - 123	
Endrin	ND		16.0	17.4	D	ug/Kg	*	109	77 - 134	
Endrin aldehyde	ND		16.0	11.2	D	ug/Kg	*	70	47 - 115	
gamma-BHC (Lindane)	ND		16.0	15.8	D	ug/Kg	*	99	63 - 118	
Heptachlor	ND		16.0	18.5	D	ug/Kg	*	116	68 - 115	
Methoxychlor	ND		16.0	14.9	J D	ug/Kg	*	93	67 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	89	D	63 - 124
Tetrachloro-m-xylene	91	D	59 - 115

Lab Sample ID: 280-37307-A-1-C MSD

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits		RPD	
				Result	Qualifier				Limit	Limit	RPD	Limit
4,4'-DDD	ND		16.9	ND	D	ug/Kg	*	0	54 - 130	NC	20	
4,4'-DDE	ND		16.9	16.7	D	ug/Kg	*	98	58 - 121	10	15	
4,4'-DDT	ND		16.9	16.7	D	ug/Kg	*	99	57 - 133	7	29	
Aldrin	ND		16.9	16.9	D	ug/Kg	*	100	63 - 115	9	50	
alpha-BHC	ND		16.9	17.5	D	ug/Kg	*	103	64 - 116	9	17	
beta-BHC	ND		16.9	18.2	D	ug/Kg	*	107	67 - 115	9	17	
delta-BHC	ND		16.9	17.9	D	ug/Kg	*	106	67 - 115	10	19	
Dieldrin	ND		16.9	16.5	D	ug/Kg	*	97	65 - 127	9	25	
Endosulfan I	ND		16.9	16.0	D	ug/Kg	*	95	65 - 118	9	26	
Endosulfan II	ND		16.9	15.6	D	ug/Kg	*	92	71 - 118	8	20	
Endosulfan sulfate	ND		16.9	15.5	D	ug/Kg	*	91	67 - 123	7	22	
Endrin	ND		16.9	19.2	D	ug/Kg	*	114	77 - 134	10	30	
Endrin aldehyde	ND		16.9	11.7	D	ug/Kg	*	69	47 - 115	4	29	
gamma-BHC (Lindane)	ND		16.9	17.3	D	ug/Kg	*	102	63 - 118	9	24	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-37307-A-1-C MSD
Matrix: Solid
Analysis Batch: 154261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 153611

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor	ND		16.9	20.3	D	ug/Kg	☼	120	68 - 115	9	18
Methoxychlor	ND		16.9	16.1	J D	ug/Kg	☼	95	67 - 130	8	23
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	88	D	63 - 124								
Tetrachloro-m-xylene	96	D	59 - 115								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-153412/1-A
Matrix: Solid
Analysis Batch: 154352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153412

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		31	4.8	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1221	ND		45	15	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1232	ND		31	4.9	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1242	ND		31	8.7	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1248	ND		31	5.3	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1254	ND		31	5.3	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1260	ND		31	2.5	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1262	ND		31	11	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
PCB-1268	ND		31	3.8	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
Polychlorinated biphenyls, Total	ND		31	2.5	ug/Kg		12/21/12 16:15	12/31/12 18:49	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl	84		59 - 130	12/21/12 16:15	12/31/12 18:49	1			
Tetrachloro-m-xylene	86		53 - 128	12/21/12 16:15	12/31/12 18:49	1			

Lab Sample ID: LCS 280-153412/3-A
Matrix: Solid
Analysis Batch: 154352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153412

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
PCB-1016	61.0	57.9		ug/Kg		95	54 - 132
PCB-1260	61.0	60.3		ug/Kg		99	62 - 129
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl	85		59 - 130				
Tetrachloro-m-xylene	87		53 - 128				

Lab Sample ID: 280-37285-1 MS
Matrix: Solid
Analysis Batch: 154352

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153412

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
PCB-1016	ND		69.4	66.4		ug/Kg	☼	96	54 - 132

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 280-37285-1 MS

Matrix: Solid

Analysis Batch: 154352

Client Sample ID: NW-02-O

Prep Type: Total/NA

Prep Batch: 153412

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
PCB-1260	24	J	69.4	77.1		ug/Kg	✖	76		62 - 129
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl	65		59 - 130							
Tetrachloro-m-xylene	87		53 - 128							

Lab Sample ID: 280-37285-1 MSD

Matrix: Solid

Analysis Batch: 154352

Client Sample ID: NW-02-O

Prep Type: Total/NA

Prep Batch: 153412

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
PCB-1016	ND		69.1	67.3		ug/Kg	✖	97		54 - 132	1	36
PCB-1260	24	J	69.1	73.6		ug/Kg	✖	71		62 - 129	5	44
Surrogate	%Recovery	Qualifier	Limits									
DCB Decachlorobiphenyl	68		59 - 130									
Tetrachloro-m-xylene	89		53 - 128									

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-153862/1-A

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153862

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	ND		79	14	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
Dinoseb	ND		12	1.4	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
2,4,5-T	ND		20	2.3	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
Silvex (2,4,5-TP)	ND		20	1.4	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	121	X	31 - 105				12/27/12 08:40	01/02/13 14:16	1

Lab Sample ID: LCS 280-153862/2-A

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
2,4-D	88.0	122	*	ug/Kg		138		32 - 115
Dinoseb	88.0	13.6		ug/Kg		15		5 - 166
2,4,5-T	91.8	100		ug/Kg		109		24 - 115
Silvex (2,4,5-TP)	88.0	111		ug/Kg		126		53 - 134
Surrogate	%Recovery	Qualifier	Limits					
2,4-Dichlorophenylacetic acid	105							31 - 105

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 280-37307-A-1-I MS

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
2,4-D	ND	*	91.1	97.5	J D	ug/Kg	☼	107	32 - 115
Dinoseb	ND		91.1	ND	D	ug/Kg	☼	0	5 - 166
2,4,5-T	ND	*	95.0	93.7	J D	ug/Kg	☼	99	24 - 115
Silvex (2,4,5-TP)	ND		91.1	87.1	J D	ug/Kg	☼	96	53 - 134

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	63	D	31 - 105

Lab Sample ID: 280-37307-A-1-J MSD

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
2,4-D	ND	*	94.3	105	J D	ug/Kg	☼	112	32 - 115	8	40
Dinoseb	ND		94.3	ND	D	ug/Kg	☼	0	5 - 166	NC	50
2,4,5-T	ND	*	98.4	101	D	ug/Kg	☼	103	24 - 115	8	40
Silvex (2,4,5-TP)	ND		94.3	96.0	J D	ug/Kg	☼	102	53 - 134	10	40

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	90	D	31 - 105

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-153434/1-A

Matrix: Water

Analysis Batch: 153698

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153434

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		15	4.4	ug/L		12/24/12 07:30	12/24/12 22:21	1
Barium	2.59	J	10	0.58	ug/L		12/24/12 07:30	12/24/12 22:21	1
Cadmium	0.650	J	5.0	0.45	ug/L		12/24/12 07:30	12/24/12 22:21	1
Chromium	0.680	J	10	0.66	ug/L		12/24/12 07:30	12/24/12 22:21	1
Lead	ND		9.0	2.6	ug/L		12/24/12 07:30	12/24/12 22:21	1
Selenium	ND		15	4.9	ug/L		12/24/12 07:30	12/24/12 22:21	1
Silver	ND		10	0.93	ug/L		12/24/12 07:30	12/24/12 22:21	1

Lab Sample ID: LCS 280-153434/2-A

Matrix: Water

Analysis Batch: 153698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153434

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	1000	990		ug/L		99	88 - 110
Barium	2000	2000		ug/L		100	90 - 112
Cadmium	100	103		ug/L		103	88 - 111
Chromium	200	203		ug/L		102	90 - 113
Lead	500	489		ug/L		98	89 - 110
Selenium	2000	1920		ug/L		96	85 - 112

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-153434/2-A

Matrix: Water

Analysis Batch: 153698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	48.2		ug/L		96	86 - 115

Lab Sample ID: 280-37267-K-1-B MS

Matrix: Water

Analysis Batch: 153698

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1000	1030		ug/L		103	84 - 124
Barium	30	B	2000	2060		ug/L		101	85 - 120
Cadmium	0.75	J B	100	105		ug/L		105	82 - 119
Chromium	1.1	J B	200	205		ug/L		102	73 - 135
Lead	ND		500	483		ug/L		97	89 - 121
Selenium	ND		2000	1950		ug/L		97	71 - 140
Silver	ND		50.0	49.6		ug/L		99	75 - 141

Lab Sample ID: 280-37267-K-1-C MSD

Matrix: Water

Analysis Batch: 153698

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153434

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1000	1010		ug/L		101	84 - 124	2	20
Barium	30	B	2000	2010		ug/L		99	85 - 120	2	20
Cadmium	0.75	J B	100	107		ug/L		106	82 - 119	1	20
Chromium	1.1	J B	200	205		ug/L		102	73 - 135	0	20
Lead	ND		500	479		ug/L		96	89 - 121	1	20
Selenium	ND		2000	1920		ug/L		96	71 - 140	2	20
Silver	ND		50.0	49.3		ug/L		99	75 - 141	1	20

Lab Sample ID: MB 280-153633/1-A

Matrix: Solid

Analysis Batch: 154235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		1000	76	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Cadmium	ND		500	41	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Chromium	ND		1500	58	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Lead	ND		800	270	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Selenium	ND		1300	860	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Silver	ND		1000	160	ug/Kg		12/28/12 07:30	12/28/12 18:52	1

Lab Sample ID: MB 280-153633/1-A

Matrix: Solid

Analysis Batch: 154331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2000	660	ug/Kg		12/28/12 07:30	12/31/12 15:20	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-153633/2-A
Matrix: Solid
Analysis Batch: 154235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200000	204000		ug/Kg		102	87 - 112
Cadmium	10000	11000		ug/Kg		110	87 - 110
Chromium	20000	21700		ug/Kg		108	84 - 114
Lead	50000	52100		ug/Kg		104	86 - 110
Selenium	200000	209000		ug/Kg		104	83 - 110
Silver	5000	5250		ug/Kg		105	87 - 114

Lab Sample ID: LCS 280-153633/2-A
Matrix: Solid
Analysis Batch: 154331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100000	98300		ug/Kg		98	85 - 110

Lab Sample ID: 280-37285-1 MS
Matrix: Solid
Analysis Batch: 154235

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	120000		196000	291000		ug/Kg	☼	88	52 - 159
Cadmium	620		9790	10500		ug/Kg	☼	101	40 - 130
Chromium	13000		19600	36000		ug/Kg	☼	119	70 - 200
Lead	220000		48900	169000	4	ug/Kg	☼	-94	70 - 200
Selenium	ND		196000	185000		ug/Kg	☼	95	76 - 104
Silver	ND		4890	4940		ug/Kg	☼	101	75 - 141

Lab Sample ID: 280-37285-1 MS
Matrix: Solid
Analysis Batch: 154331

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4000		97900	89900		ug/Kg	☼	88	76 - 111

Lab Sample ID: 280-37285-1 MSD
Matrix: Solid
Analysis Batch: 154235

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Barium	120000		182000	284000		ug/Kg	☼	92	52 - 159	2	20
Cadmium	620		9110	9810		ug/Kg	☼	101	40 - 130	7	20
Chromium	13000		18200	36400		ug/Kg	☼	130	70 - 200	1	20
Lead	220000		45500	186000	4	ug/Kg	☼	-65	70 - 200	9	20
Selenium	ND		182000	172000		ug/Kg	☼	95	76 - 104	7	20
Silver	ND		4550	4660		ug/Kg	☼	102	75 - 141	6	20

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-37285-1 MSD

Matrix: Solid

Analysis Batch: 154331

Client Sample ID: NW-02-O

Prep Type: Total/NA

Prep Batch: 153633

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Arsenic	4000		91100	83500		ug/Kg	☼	87	76 - 111	7		20

Lab Sample ID: MB 280-153635/1-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 153635

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:30	1
Barium	ND		10	0.58	ug/L		12/28/12 12:00	12/31/12 20:30	1
Cadmium	ND		5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:30	1
Chromium	ND		10	0.66	ug/L		12/28/12 12:00	12/31/12 20:30	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:30	1
Selenium	5.20	J	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:30	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:30	1

Lab Sample ID: LCS 280-153635/2-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 153635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Arsenic	1000	1050		ug/L		105	88 - 110	
Barium	2000	2080		ug/L		104	90 - 112	
Cadmium	100	109		ug/L		109	88 - 111	
Chromium	200	206		ug/L		103	90 - 113	
Lead	500	522		ug/L		104	89 - 110	
Selenium	2000	2100		ug/L		105	85 - 112	
Silver	50.0	53.6		ug/L		107	86 - 115	

Lab Sample ID: 280-37307-D-4-C MS

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 153635

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Arsenic	ND		1000	1070		ug/L		107	84 - 124	
Barium	170		2000	2250		ug/L		104	85 - 120	
Cadmium	0.48	J	100	109		ug/L		108	82 - 119	
Chromium	ND		200	206		ug/L		103	73 - 135	
Lead	ND		500	505		ug/L		101	89 - 121	
Selenium	11	J B	2000	2070		ug/L		103	71 - 140	
Silver	ND		50.0	54.2		ug/L		108	75 - 141	

Lab Sample ID: 280-37307-D-4-D MSD

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 153635

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Arsenic	ND		1000	1040		ug/L		104	84 - 124	2		20
Barium	170		2000	2230		ug/L		103	85 - 120	1		20
Cadmium	0.48	J	100	107		ug/L		107	82 - 119	1		20

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-37307-D-4-D MSD

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 153635

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chromium	ND		200	203		ug/L		101	73 - 135	2	20
Lead	ND		500	499		ug/L		100	89 - 121	1	20
Selenium	11	J B	2000	2050		ug/L		102	71 - 140	1	20
Silver	ND		50.0	53.0		ug/L		106	75 - 141	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-153532/1-A

Matrix: Water

Analysis Batch: 154037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153532

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0290	J	0.20	0.027	ug/L		12/27/12 12:00	12/27/12 17:55	1

Lab Sample ID: LCS 280-153532/2-A

Matrix: Water

Analysis Batch: 154037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153532

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	5.00	4.81		ug/L		96	84 - 120

Lab Sample ID: 280-37316-A-1-E MS

Matrix: Water

Analysis Batch: 154037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153532

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	0.039	J B	5.00	3.74	F	ug/L		74	75 - 125

Lab Sample ID: 280-37316-A-1-F MSD

Matrix: Water

Analysis Batch: 154037

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153532

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.039	J B	5.00	3.70	F	ug/L		73	75 - 125	1	20

Lab Sample ID: MB 280-154019/1-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154019

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:15	1

Lab Sample ID: LCS 280-154019/2-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154019

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	5.00	4.98		ug/L		100	84 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-37285-2 MS
Matrix: Water
Analysis Batch: 154241

Client Sample ID: NW-02-GW
Prep Type: Dissolved
Prep Batch: 154019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	5.05		ug/L		101	75 - 125

Lab Sample ID: 280-37285-2 MSD
Matrix: Water
Analysis Batch: 154241

Client Sample ID: NW-02-GW
Prep Type: Dissolved
Prep Batch: 154019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	5.08		ug/L		102	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-153674/1-A
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		12/26/12 11:35	12/26/12 15:13	1

Lab Sample ID: LCS 280-153674/2-A
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	420		ug/Kg		101	87 - 111

Lab Sample ID: 280-37285-1 MS
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	120		436	399	F	ug/Kg	☼	65	87 - 111

Lab Sample ID: 280-37285-1 MSD
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: NW-02-O
Prep Type: Total/NA
Prep Batch: 153674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	120		494	490	F	ug/Kg	☼	76	87 - 111	20	20

Method: 1664A - Oil & Grease (HEM)

Lab Sample ID: MB 280-154167/1-A
Matrix: Water
Analysis Batch: 154181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L		12/29/12 09:20	12/29/12 13:14	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 1664A - Oil & Grease (HEM) (Continued)

Lab Sample ID: LCS 280-154167/2-A

Matrix: Water

Analysis Batch: 154181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	37.5		mg/L		94	81 - 107

Lab Sample ID: LCSD 280-154167/3-A

Matrix: Water

Analysis Batch: 154181

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 154167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	35.3		mg/L		88	81 - 107	6	22

Method: 9040C - pH

Lab Sample ID: LCS 280-153547/42

Matrix: Water

Analysis Batch: 153547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH adj. to 25 deg C	7.00	7.010		SU		100	99 - 101

Lab Sample ID: LCSD 280-153547/43

Matrix: Water

Analysis Batch: 153547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
pH adj. to 25 deg C	7.00	7.010		SU		100	99 - 101	0	5

Lab Sample ID: 280-37285-2 DU

Matrix: Water

Analysis Batch: 153547

Client Sample ID: NW-02-GW

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.00		7.000		SU		0	5

Lab Sample ID: LCS 280-154179/4

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH adj. to 25 deg C	7.00	7.050		SU		101	99 - 101

Lab Sample ID: LCSD 280-154179/5

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
pH adj. to 25 deg C	7.00	7.050		SU		101	99 - 101	0	5

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Method: 9040C - pH (Continued)

Lab Sample ID: 280-37417-B-2 DU

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
pH adj. to 25 deg C	7.30		7.350		SU		0.7	5
Temperature	20.0		20.00		Degrees C		0	10

Method: Moisture - Percent Moisture

Lab Sample ID: 280-37358-A-1 DU

Matrix: Solid

Analysis Batch: 153758

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Moisture	9.9		9.7		%		2	20
Percent Solids	90		90		%		0.2	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-153834/3

Matrix: Water

Analysis Batch: 153834

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	ND		4.0	1.1	mg/L			12/26/12 15:40	1

Lab Sample ID: LCS 280-153834/1

Matrix: Water

Analysis Batch: 153834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSD 280-153834/2

Matrix: Water

Analysis Batch: 153834

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Total Suspended Solids	100	100		mg/L		100	86 - 114	5	20

Lab Sample ID: 280-37290-D-6 DU

Matrix: Water

Analysis Batch: 153834

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Suspended Solids	24		23.2		mg/L		3	10

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Client Sample ID: NW-02-O

Date Collected: 12/20/12 08:40

Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-1

Matrix: Solid

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.045 g	5 mL	153850	12/26/12 16:00	LMH	TAL DEN
Total/NA	Analysis	8260B		1			153854	12/27/12 02:53	LMH	TAL DEN
Total/NA	Prep	3546			30.3 g	10000 uL	153611	12/24/12 11:15	SPF	TAL DEN
Total/NA	Analysis	8081A		1			154063	12/28/12 20:50	AMP	TAL DEN
Total/NA	Prep	3546			30.0 g	10000 uL	153412	12/21/12 16:15	SHO	TAL DEN
Total/NA	Analysis	8082		1			154352	12/31/12 19:35	TDJ	TAL DEN
Total/NA	Prep	8151A			51.8 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		5			154361	01/02/13 21:01	KJH	TAL DEN
Total/NA	Prep	7471A			0.52 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:17	JM	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 18:57	HEB	TAL DEN
Total/NA	Analysis	6010B		1			154331	12/31/12 15:25	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Client Sample ID: NW-02-GW

Date Collected: 12/20/12 11:55

Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	153993	12/28/12 12:48	TW	TAL DEN
Total/NA	Prep	3520C			1029.2 mL	1000 uL	153406	12/22/12 15:00	ACF	TAL DEN
Total/NA	Analysis	8270C		1			153874	12/27/12 15:43	MGH	TAL DEN
Total/NA	Prep	3010A			50 mL	50 mL	153434	12/24/12 07:30	JA	TAL DEN
Total/NA	Analysis	6010B		1			153698	12/24/12 22:43	LT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	153532	12/27/12 12:00	JM	TAL DEN
Total/NA	Analysis	7470A		1			154037	12/27/12 18:20	JM	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	154019	12/28/12 11:15	JM	TAL DEN
Dissolved	Analysis	7470A		1			154241	12/28/12 15:20	JM	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	153635	12/28/12 12:00	RC	TAL DEN
Dissolved	Analysis	6010B		1			154339	12/31/12 20:34	HEB	TAL DEN
Total/NA	Analysis	SM 2540D		1	10 mL	250 mL	153834	12/26/12 15:40	MW	TAL DEN
Total/NA	Analysis	9040C		1			154179	12/29/12 12:16	DA	TAL DEN
Total/NA	Prep	1664A			280 mL	1000 mL	154167	12/29/12 09:20	AFB	TAL DEN
Total/NA	Analysis	1664A		1			154181	12/29/12 13:14	AFB	TAL DEN

Client Sample ID: NW-02-25

Date Collected: 12/20/12 09:33

Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.173 g	5 mL	153984	12/27/12 16:00	LMH	TAL DEN
Total/NA	Analysis	8260B		1			153976	12/28/12 05:29	LMH	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-2

Client Sample ID: NW-02-25

Date Collected: 12/20/12 09:33

Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-3

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			32.0 g	10000 uL	153611	12/24/12 11:15	SPF	TAL DEN
Total/NA	Analysis	8081A		1			154063	12/28/12 21:08	AMP	TAL DEN
Total/NA	Prep	3546			33.1 g	10000 uL	153412	12/21/12 16:15	SHO	TAL DEN
Total/NA	Analysis	8082		1			154352	12/31/12 20:45	TDJ	TAL DEN
Total/NA	Prep	8151A			51.2 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		1			154361	01/02/13 21:24	KJH	TAL DEN
Total/NA	Prep	7471A			0.69 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:24	JM	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:17	HEB	TAL DEN
Total/NA	Analysis	6010B		1			154331	12/31/12 14:57	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Client Sample ID: NW-02-37

Date Collected: 12/20/12 10:04

Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-4

Matrix: Solid

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.023 g	5 mL	153984	12/27/12 16:00	LMH	TAL DEN
Total/NA	Analysis	8260B		1			153976	12/28/12 06:26	LMH	TAL DEN
Total/NA	Prep	3546			31.0 g	10000 uL	153611	12/24/12 11:15	SPF	TAL DEN
Total/NA	Analysis	8081A		1			154063	12/28/12 21:25	AMP	TAL DEN
Total/NA	Prep	3546			30.6 g	10000 uL	153412	12/21/12 16:15	SHO	TAL DEN
Total/NA	Analysis	8082		1			154352	12/31/12 21:08	TDJ	TAL DEN
Total/NA	Prep	8151A			51.5 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		1			154361	01/02/13 21:46	KJH	TAL DEN
Total/NA	Prep	7471A			0.53 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:27	JM	TAL DEN
Total/NA	Prep	3050B			1.05 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:20	HEB	TAL DEN
Total/NA	Analysis	6010B		1			154331	12/31/12 15:00	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



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Report for:

Donna Rydberg
TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

Regarding: Project: 280-37285-1
 EML ID: 1008551

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 12-28-2012

Technical Manager
Miguel Ines

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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EMLab P&K

3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626
(866) 465-6653 Fax (858) 569-5806 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-37285-1

Date of Sampling: 12-20-2012
Date of Receipt: 12-26-2012
Date of Report: 12-28-2012

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 1
Total Samples Analysed: 1
Total Samples with Layer Asbestos Content > 1%: 0

Location: NW-02-O (280-37285-1)

Lab ID-Version‡: 4508740-1

Sample Layers	Asbestos Content
Gray Soil	ND
Sample Composite Homogeneity:	Moderate

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 796-0100 Fax (303) 431-7171

Chain of Custody Record

Client Information (Sub Contract Lab)

Sampler:

Lab File: Rydberg, Donnie R

Carrier Tracking No.:

COC No: 280-165969.1

Client Contact: Shipping/Receiving

Phone:

Email: donnie.rydberg@stamarkinc.com

Page: Page 1 of 1

Company: EMI 316 P&K

Due Date Requested: 1/22/2013

Analysis Requested

Index: 280-37295-1

Address: 3595 Cadillac Ave, Suite A, Costa Mesa, CA, 92626

TAT Requested (days):

Barcode: 001008551

Preservation Codes:

State/Zip: CA, 92626

PO #:

Barcode: 001008551

A-HCl, B-NaOH, C-Zn Acetate, D-Nitric Acid, E-NH4SCN, F-IsoQ1, G-Amilor, H-Ascorbic Acid, I-Ice, J-DI Water, K-EDTA, L-SDA, M-Hexane, N-Hex, O-AsNA2, P-Na2CO3, Q-Na2SO3, R-Na2S2O5, S-H2SO4, T-TSP Deterphosphate, U-Acetone, V-IACAA, W-Ph-4-5, Z-dilute (residif)

Project Name: US-6 211-25

Project #: 28009391

Barcode: 001008551

Site: SSDWTR

WFO #:

Barcode: 001008551

Sample Identification - Client ID (Lab ID): NW-02-Q (280-37295-1)

Sample Date: 12/20/12

Barcode: 001008551

Sample Time: 08:40

Matrix (Wet/Dry, Brown, Orange, Yellow, Pink, Purple, Blue, Green, Black, White, Other)

Barcode: 001008551

Sample Type (G-Grain, S-Sediment, L-Liquid, O-Oil, P-Powder, Solid)

Matrix: Solid

Barcode: 001008551

Special Instructions/Note: SUBCONTRACT - Asbestos (PLM)

Matrix: Solid

Barcode: 001008551

Special Instructions/Note: SUBCONTRACT - Asbestos (PLM)

Matrix: Solid

Barcode: 001008551

Special Instructions/Note: SUBCONTRACT - Asbestos (PLM)

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Special Instructions/Note: SUBCONTRACT - Asbestos (PLM)

Matrix: Solid

Barcode: 001008551

Special Instructions/Note: SUBCONTRACT - Asbestos (PLM)

Matrix: Solid

Barcode: 001008551

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For
 Special Instructions/QC Requirements:

Possible Hazard Identification

Deliverable Requested: I, II, III, IV, Other (specify)

Barcode: 001008551

Empty Kit Relinquished by:

Date:

Barcode: 001008551

Relinquished by:

Date/Time: 12/21/12 10:00

Barcode: 001008551

Relinquished by:

Date/Time:

Barcode: 001008551

Custody Seal Intact: A Yes A No

Custody Seal No.:

Barcode: 001008551

Method of Storage:

Date/Time: 12/21/12 11:50

Barcode: 001008551

Received By:

Date/Time: 12-21-12 08:00

Barcode: 001008551

Received By:

Date/Time:

Barcode: 001008551

Received By:

Date/Time:

Barcode: 001008551

Received By:

Date/Time:

Barcode: 001008551

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37285-2

Login Number: 37285

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

TAL-4124-280 (0508)

Client: **RMC Consultants, Inc**
 Address: **12285 W 48th Ave, Unit A**
 City: **Wheat Ridge** State: **CO** Zip Code: **80033**
 Project Name and Location (State): **US 6 at I-25**
 Contract/Purchase Order/Quote No.: **E12.023.154**

Project Manager: **Claude Murray**
 Telephone Number (Area Code)/Fax Number: **303 980 4101**
 Site Contact: **Jason Kahler** Lab Contact: **Danna Rydberg**
 Carrier/Maxbill Number: **Hand Delivered**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH	
NW-02-0	12/20/12	0840		X	X	4							8260 B 6010B/7470A 8270C 6010B/7470A PH/TSS O & G 5055 A/B
NW-02-GW		1155		X		5	2	3					
NW-02-25		0933		X		3							
NW-02-37		1004		X		3							
NW-02-Trip	12/20/12		X			2							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months _____ Months _____ Months
 Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **STD**

1. Relinquished By: **Stan M...** Date: **12/20/12** Time: **1644**
 2. Relinquished By: **[Signature]** Date: **12/20/12** Time: **1644**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37285-3
Client Project/Site: U.S.6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/23/2013 1:57:37 PM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Job ID: 280-37285-3

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc.

Project: U.S.6 at I-25

Report Number: 280-37285-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Samples were received at the Denver laboratory on December 20, 2012. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler upon receipt was 3.1°C. The report is for the reanalysis performed for metals. No other tests are included.

TOTAL METALS WATER

Sample NW-02-GW (280-37285-2) was re-analyzed for total metals in accordance with EPA SW-846 Method 6010B as requested by the client. The original 6010B results for this sample and re-analysis results are listed below. All results were comparable with the exception of the Cadmium which was quite a bit lower on the second analysis. It was noted that there was quite a bit of sediment in the sample container.

<u>Element</u>	<u>Original results</u>	<u>Re-analysis results</u>
Arsenic	27	27
Barium	650	620
Cadmium	8.4	1.6
Chromium	77	67
Lead	54	52
Selenium	11	11
Silver	ND	ND

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Client Sample ID: NW-02-GW

Lab Sample ID: 280-37285-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	27		15	4.4	ug/L	1		6010B	Total/NA
Barium	620		10	0.58	ug/L	1		6010B	Total/NA
Cadmium	1.6	J	5.0	0.45	ug/L	1		6010B	Total/NA
Chromium	67		10	0.66	ug/L	1		6010B	Total/NA
Lead	52		9.0	2.6	ug/L	1		6010B	Total/NA
Selenium	11	J	15	4.9	ug/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



Sample Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37285-2	NW-02-GW	Water	12/20/12 11:55	12/20/12 16:44

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Method: 6010B - Metals (ICP)

Client Sample ID: NW-02-GW
Date Collected: 12/20/12 11:55
Date Received: 12/20/12 16:44

Lab Sample ID: 280-37285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27		15	4.4	ug/L		01/22/13 13:00	01/23/13 07:41	1
Barium	620		10	0.58	ug/L		01/22/13 13:00	01/23/13 07:41	1
Cadmium	1.6	J	5.0	0.45	ug/L		01/22/13 13:00	01/23/13 07:41	1
Chromium	67		10	0.66	ug/L		01/22/13 13:00	01/23/13 07:41	1
Lead	52		9.0	2.6	ug/L		01/22/13 13:00	01/23/13 07:41	1
Selenium	11	J	15	4.9	ug/L		01/22/13 13:00	01/23/13 07:41	1
Silver	ND		10	0.93	ug/L		01/22/13 13:00	01/23/13 07:41	1

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Metals

Prep Batch: 156395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	3010A	
280-37930-C-11-B MS	Matrix Spike	Total/NA	Water	3010A	
280-37930-C-11-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 280-156395/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 280-156395/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 156801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-2	NW-02-GW	Total/NA	Water	6010B	156395
280-37930-C-11-B MS	Matrix Spike	Total/NA	Water	6010B	156395
280-37930-C-11-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	156395
LCS 280-156395/2-A	Lab Control Sample	Total/NA	Water	6010B	156395
MB 280-156395/1-A	Method Blank	Total/NA	Water	6010B	156395

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-156395/1-A
Matrix: Water
Analysis Batch: 156801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		01/22/13 13:00	01/23/13 07:08	1
Barium	ND		10	0.58	ug/L		01/22/13 13:00	01/23/13 07:08	1
Cadmium	ND		5.0	0.45	ug/L		01/22/13 13:00	01/23/13 07:08	1
Chromium	ND		10	0.66	ug/L		01/22/13 13:00	01/23/13 07:08	1
Lead	ND		9.0	2.6	ug/L		01/22/13 13:00	01/23/13 07:08	1
Selenium	ND		15	4.9	ug/L		01/22/13 13:00	01/23/13 07:08	1
Silver	ND		10	0.93	ug/L		01/22/13 13:00	01/23/13 07:08	1

Lab Sample ID: LCS 280-156395/2-A
Matrix: Water
Analysis Batch: 156801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1050		ug/L		105	88 - 110
Barium	2000	1990		ug/L		100	90 - 112
Cadmium	100	100		ug/L		100	88 - 111
Chromium	200	202		ug/L		101	90 - 113
Lead	500	495		ug/L		99	89 - 110
Selenium	2000	2000		ug/L		100	85 - 112
Silver	50.0	46.8		ug/L		94	86 - 115

Lab Sample ID: 280-37930-C-11-B MS
Matrix: Water
Analysis Batch: 156801

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 156395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1000	1080		ug/L		108	84 - 124
Barium	25		2000	2100		ug/L		104	85 - 120
Cadmium	ND		100	103		ug/L		103	82 - 119
Chromium	1.6	J	200	207		ug/L		103	73 - 135
Lead	ND		500	498		ug/L		100	89 - 121
Selenium	ND		2000	2050		ug/L		103	71 - 140
Silver	ND		50.0	48.4		ug/L		97	75 - 141

Lab Sample ID: 280-37930-C-11-C MSD
Matrix: Water
Analysis Batch: 156801

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 156395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1000	1090		ug/L		109	84 - 124	1	20
Barium	25		2000	2130		ug/L		105	85 - 120	2	20
Cadmium	ND		100	104		ug/L		104	82 - 119	1	20
Chromium	1.6	J	200	210		ug/L		104	73 - 135	1	20
Lead	ND		500	502		ug/L		100	89 - 121	1	20
Selenium	ND		2000	2070		ug/L		103	71 - 140	1	20
Silver	ND		50.0	49.6		ug/L		99	75 - 141	2	20

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37285-3

Client Sample ID: NW-02-GW

Lab Sample ID: 280-37285-2

Date Collected: 12/20/12 11:55

Matrix: Water

Date Received: 12/20/12 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	156395	01/22/13 13:00	JA	TAL DEN
Total/NA	Analysis	6010B		1			156801	01/23/13 07:41	JKH	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37285-3

Login Number: 37285

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampler ID JK
 Temperature on Receipt 31
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124-280 (0508)

Client: **RMC Consultants, Inc**
 Address: **12285 W 48th Ave, Unit A**
 City: **Wheat Ridge** State: **CO** Zip Code: **80033**
 Project Name and Location (State): **US 6 at I-25**
 Contract/Purchase Order/Quote No.: **E12.023.154**

Project Manager: **Claude Murray** Date: **12/20/2012**
 Telephone Number (Area Code)/Fax Number: **303 980 4101**
 Site Contact: **Jason Kahler** Lab Contact: **Danna Rydberg**
 Carrier/Maxbill Number: **Hand Delivered**

Chain of Custody Number: **170749**
 Page **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH
NW-02-0	12/20/12	0840		X	X	4						8260 B 6010B/7470A 8270C 6010B/7470A PH/TSS 045 5055 A/B
NW-02-GW		1155	X			5	2	3				
NW-02-25		0933		X		3						
NW-02-37		1004		X		3						
NW-02-Trip	12/20/12		X			2						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **STD**

1. Relinquished By: **Stan Mue** Date: **12/20/12** Time: **1644**
 Received By: **[Signature]** Date: **12/20/12** Time: **1644**

2. Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37307-1
Client Project/Site: US 6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/22/2013 8:48:36 AM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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3

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5

Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-1

Job ID: 280-37307-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc.

Project: US 6 at I-25

Report Number: 280-37307-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received at TestAmerica Denver on December 21, 2012. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.7°C.

The sample requiring Gross A/B was subbed to the TestAmerica Richland laboratory at 2800 George Washington Way, Richland WA 99352 for analysis. The sample results will be found in this report. All other samples were logged under a separate job and will not be found in this report.

Analytical Data Package Prepared For

TestAmerica Denver

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 17 Pages

Report No.: 54259

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
46236		SE-01-GW(280-37307-4)	J2L280426-1	MXQR91AC	9MXQR910	3002045
		SE-01-GW(280-37307-4)	J2L280426-1	MXQR91AA	9MXQR910	3002047

Certificate of Analysis

January 15, 2013

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Attention: Donna Rydberg

Date Received by Lab	:	December 26, 2012
Sample Number/Matrix	:	One (1) Water
SDG Number	:	46236
Project	:	RMC Consultants / US 6 at I-25
Project Number	:	280-37307-1

CASE NARRATIVE

I. Introduction

On December 26, 2012, one water sample was received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the sample was assigned the TestAmerica identification number as described on the cover page of the Analytical Data Package. The sample was assigned to Lot Number J2L280426.

II. Sample Receipt

The sample was received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Gross Beta by method RL-GPC-001

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gas Proportional Counting

Gross Alpha by method RL-GPC-001:

The achieved MDA for sample exceeds the CRDL due to the reduced aliquot size based on weight screens. The sample was counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

Gross Beta by method RL-GPC-001:

The achieved MDA for sample exceeds the CRDL due to the reduced aliquot size based on weight screens. The sample was counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Erika Jordan
Erika Jordan 2013.01.18
14:34:27 -08'00'

Erika Jordan
Customer Service Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation $(\text{Result}/\text{Expected})-1$ as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) u_c Combined Uncertainty	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, u_c the combined uncertainty. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin}) + 2.71/\text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D)/[\text{sqrt}(\text{TPUs}^2 + \text{TPUD}^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUD is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 15-Jan-13

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 54259

SDG No: 46237

Batch	Client Id Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
3002045	RL-GPC-001								
	NW-02-GW(280-37285-2) DUP								
	MXQTD1AD ALPHA		138.0 +- 42.0		pCi/L	100%	24.4	3.0	0.7
	SE-01-GW(280-37307-4)								
	MXQR91AC ALPHA		22.2 +- 9.8		pCi/L	100%	11.1	3.0	
3002047	RL-GPC-001								
	231892-122012(280-37267-1) DUP								
	MXQRX1AD BETA		5.11 +- 3.1	U	pCi/L	100%	5.26	4.0	0.3
	SE-01-GW(280-37307-4)								
	MXQR91AA BETA		25.0 +- 6.2		pCi/L	100%	7.64	4.0	
No. of Results:		4							

TestAmerica

rptSTLRchSaSummary2 V5.2.23
A2002

RER2 - Replicate Error Ratio = $(S-D)/[\text{sqrt}(\text{sq}(\text{TPUs})+\text{sq}(\text{TPUD}))]$ as defined by ICPT BOA,

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

QC Results Summary
TestAmerica TARL
 Ordered by Method, Batch No, QC Type,.

Date: 15-Jan-13

Report No. : 54259

SDG No.: 46240

Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
RL-GPC-001									
	3002045	BLANK QC,							
	MXQ7A1AA	ALPHA	0.570 +- 0.44	U	pCi/L	100%			0.652
	3002045	LCS,							
	MXQ7A1AC	ALPHA	37.5 +- 8.6		pCi/L	100%	92%	-0.1	0.754
	3002045	MATRIX SPIKE, SE-01-GW(280-37307-4)							
	MXQR91AD	ALPHA	311.0 +- 82.0		pCi/L	100%	101%	0.0	11.3
RL-GPC-001									
	3002047	MATRIX SPIKE, 227284-122012(280-37267-2)							
	MXQR31AD	BETA	283.0 +- 38.0		pCi/L	100%	98%	0.0	4.98
	3002047	BLANK QC,							
	MXQ7D1AA	BETA	1.09 +- 1.0	U	pCi/L	100%			1.79
	3002047	LCS,							
	MXQ7D1AC	BETA	40.7 +- 5.7		pCi/L	100%	100%	0.0	1.84
No. of Results: 6									

TestAmerica
 rptSTLRchQcSum
 mary V5.2.23
 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

Date: 15-Jan-13

SAMPLE RESULTS

Lab Name: TestAmerica **SDG:** 46236 **Collection Date:** 12/20/2012 11:00:00 PM **Primary Detector**
Lot-Sample No.: J2L280426-1 **Report No.:** 54259 **Received Date:** 12/26/2012 11:00:00 AM **Size**
Client Sample ID: SE-01-GW(280-37307-4) **COC No.:** 280-165551.1 **Matrix:** WATER **Total Sa Size**
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	RstfMDL, RstfTotUcert	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 3002045	RL-GPC-001		8.4	9.8	11.1	pCi/L	100%	(2.)	1/7/13 01:33 p	0.0261	GPC21C
	ALPHA						3.0	(4.5)		L	
Work Order:	MXQR91AC										
Report DB ID:	9MXQR910										
Batch: 3002047	RL-GPC-001		5.2	6.2	7.64	pCi/L	100%	(3.3)	1/7/13 01:14 p	0.0534	GPC28B
	BETA						4.0	(8.1)		L	
Work Order:	MXQR91AA										
Report DB ID:	9MXQR910										

No. of Results: 2 Comments:

NestAmerica MDC(MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdi, Total Uncert, CRDL, RDL or not identified by gamma scan software.
 05.2.23 AZ002



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280423-1
 Client Sample ID: 231892-122012(280-37267-1) DUP
 SDG: 46235
 Report No.: 54259
 COC No.: 280-165322.1
 Collection Date: 12/20/2012 10:30:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002047	RL-GPC-001								Orig Sa DB ID: 9MXQRX10			
BETA	5.11	U	3.1	3.1	5.26	pCi/L	100%	0.97	1/7/13 01:14 p		0.0751	GPC26B
	5.85		RER 0.3			4.0	(3.3)				L	

No. of Results: 1 Comments:

TestAmerica RER2 - Replicates Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
 CpStLRchDupV5. MDC(MDA,Le - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.
 02.23 A2002



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280427-1
 Client Sample ID: NW-02-GW(280-37285-2) DUP
 SDG: 46237
 Report No.: 54259
 COC No.: 280-165358.1
 Collection Date: 12/20/2012 11:55:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002045	RL-GPC-001								Orig Sa DB ID: 9MXQTD10			
ALPHA	138.0		27.0	42.0	24.4	pCi/L	100%	(5.7)	1/7/13 01:33 p		0.0126	GPC22C
	159.0		RER2 0.7			3.0		(6.6)			L	

No. of Results: 1 Comments:



FORM II

Date: 15-Jan-13

BLANK RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54259

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rstf/MDL, Rstf/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Work Order: MXQ7A1AA Report DB ID: MXQ7A1AB												
Batch: 3002045	RL-GPC-001	U	0.42	0.44	0.652	pCi/L	100%	0.87	1/7/13 01:33 p		0.1988	GPC23B
ALPHA	0.570	U			0.287	3.0		(2.6)			L	
Work Order: MXQ7D1AA Report DB ID: MXQ7D1AB												
Batch: 3002047	RL-GPC-001	U	1.0	1.0	1.79	pCi/L	100%	0.61	1/7/13 04:55 p		0.1988	GPC26B
BETA	1.09	U			0.861	4.0		(2.1)			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

TestAmerica
 rpt\$TLRchBlank
 1/5.2.23 A2002



FORM II

Date: 15-Jan-13

LCS RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54259

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 3002045 RL-GPC-001 Work Order: MXG7A1AC Report DB ID: MXG7A1CS													
ALPHA	37.5		2.1	8.6	0.754	pCi/L	100%	40.6	0.42	92%	1/7/13 01:33 p	0.2002	GPC23C
Rec Limits: 70 130 -0.1													
Batch: 3002047 RL-GPC-001 Work Order: MXG7D1AC Report DB ID: MXG7D1CS													
BETA	40.7		2.3	5.7	1.84	pCi/L	100%	40.8	1.6	100%	1/7/13 04:55 p	0.2007	GPC26C
Rec Limits: 70 130 0.0													

No. of Results: 2 Comments:

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
 V5.2.23 A2002



FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46235 Matrix: WATER
 Lot-Sample No.: J2L280423-2, 227284-122012(280-37267-2) Report No.: 54259

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rec-covery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002047											
BETA	283.0	9.4	38.0	4.98	pCi/L	100%	98.33%	288.0	1/7/13 01:14 p	0.078	RL-GPC-001
	3.71							11.0		L	GPC26D

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUD))] as defined by ICPT BOA
 BptSTLRchMS Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 075.2.23 A2002



FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46236
 Lot-Sample No.: J2L280426-1, SE-01-GW(280-37307-4) Report No.: 54259 Matrix: WATER

Parameter	Spike Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC(MDA	Rpt Unit, CRDL	Yield	Rec-covery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002045	311.0		23.0	82.0	11.3	pCi/L	100%	101.47%	306.0	1/7/13 01:33 p	0.0265	RL-GPC-001
ALPHA	22.2								3.2		L	GPC22A

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPuD))] as defined by ICPT BOA
 Bias -(Result/Expected)-1 as defined by ANSI N13.30.
 0ppf\$TLRchMs
 3W5.2.23 A2002



TestAmerica Denver
 4955 Yarrow Street
 Avada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Client Contact: <u>Shelley</u> Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 2800 George Washington Way, City: Richland State, Zip: WA, 99352 Phone: 509-375-3131 (Tel) 509-375-5990 (Fax) Email: Project Name: US 6 at 1-25 Site:		Lab POC: Rydberg, Donna R. E-Mail: donna.rydberg@testamericainc.com Phone:		Carrier Tracking No(s): COC No: 280-166551.1 Page: Page 1 of 1 Job #: 280-37307-1	
Due Date Requested: 1/17/2013 TAT Requested (days): PO #: WO #: Project #: 28009391 ISSOW#:		Analysis Requested Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Diphosphate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Sample Identification - Client ID (Lab ID) SE-01 - GW (280-37307-4)		Gross Alpha/Beta X			
Sample Date: 12/20/12 Sample Time: 23:00 Matrix: Water Sample Type: (C=comp, G=grab) Matrix (W=water, S=solid, O=water/oil, E=EtOH, A=Air)		Special Instructions/Note: MXQ89			
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by: <u>Shelley</u> Relinquished by: <u>Shelley</u> Relinquished by: Relinquished by:		Method of Shipment Date/Time: 12/28/12 Date/Time: when received on 12-20-12 16:12-18-12 Date/Time:			
Relinquished by: <u>Shelley</u> Relinquished by: Relinquished by:		Company: TA Company: TA Company:			
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/> Custom Seal No:		Cooler Temperature(s) °C and Other Remarks:			



Sample Check-in List

Date/Time Received: 12-26-12 / 1100 GM Screen Result: (Airlock) .03 Initials [B]
(Sample Receiving) .05 Initials [B]

Client: STLD SDG #: 46236 NA [] SAF #: NA [B]

Lot Number: JAL250426

Chain of Custody # 280-115551.1

Shipping Container ID: _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B]] Continue with 1 through 4. Initial appropriate response.

No []] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [B]] No []] No Custody Seal []]
- 2. Custody Seals dated and signed? Yes [B]] No []] No Custody Seal []]
- 3. Cooler temperature: _____ °C NA [B]]
- 4. Vermiculite/packing materials is NA []] Wet []] Dry [B]]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [B]] No []]
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1 x LP

8. Sample holding times exceeded? NA []] Yes []] No [B]]

9. Samples have:
 _____ tape [B] hazard labels
 _____ custody seals [B] appropriate sample labels

10. Matrix:
 _____ A (FLT, Wipe, Solid, Soil) [B] I (Water)
 _____ S (Air, Niosh 7400) _____ T (Biological, Ni-63)

11. Samples:
[B] are in good condition _____ are leaking
 _____ are broken _____ have air bubbles (Only for samples requiring no head space)
 _____ Other _____

12. Sample pH appropriate for analysis requested Yes [B]] No []] NA []]
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

RPL ID # of preservative used: N/A

13. Were any anomalies identified in sample receipt? Yes []] No [B]]

14. Description of anomalies (include sample numbers): NA [B]

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37307-1

Login Number: 37307

List Number: 1

Creator: Underwood, Tim

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampler ID JM
 Temperature on Receipt 4.7i IRF
 Drinking Water? Yes No

Chain of Custody Record
 TAL-4124-280 (0508)

Client: RMC CONSULTANTS, INC Chain of Custody Number: 170756
 Address: 12295 W. 48th Ave. Date: 12/21/12
 City: Wheat Ridge State: CO Zip Code: 80033 Lab Number: 1 of 1
 Project Manager: CLAUDE ROE MURRAY
 Telephone Number (Area Code)/Fax Number: (303) 980 4101
 Site Contact: JASON KAHLERT Lab Contact: DOINA RYABERG
 Carrier/Waybill Number: US64 I-25

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
<u>SE-01-(0-2)</u>	<u>12-20-12</u>	<u>2020</u>			<u>X</u>	<u>4</u>				<u>X</u>	<u>X</u>	<u>X</u>		
<u>SE-01-(24-26)</u>	<u>12.20.12</u>	<u>2108</u>			<u>X</u>	<u>3</u>				<u>X</u>	<u>X</u>	<u>X</u>		
<u>SE-01-(34-36)</u>	<u>12.20.12</u>	<u>2125</u>			<u>X</u>	<u>3</u>				<u>X</u>	<u>X</u>	<u>X</u>		
<u>SE-01-GW</u>	<u>12.20.12</u>	<u>2300</u>	<u>X</u>			<u>3</u>	<u>1</u>	<u>23</u>						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other STD

1. Relinquished By: [Signature] Date: 12/21/12 Time: 1412
 2. Relinquished By: [Signature] Date: 12/21/12 Time: 1412
 3. Relinquished By: _____ Date: _____ Time: _____

1
2
3
4
5

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37307-2
Client Project/Site: US 6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/8/2013 1:28:18 PM

Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for
Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



LINKS

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results through
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Have a Question?



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Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Job ID: 280-37307-2

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc

Project: US 6 at I-25

Report Number: 280-37307-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received at TestAmerica Denver on December 21, 2012. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.7°C.

The sample requiring Gross A/B was subbed to the TestAmerica Richland laboratory at 2800 George Washington Way, Richland WA 99352 for analysis. This sample was logged and will be reported under a separate job (280-37307-1). Data will not be found in this report.

The report for the Asbestos sample will be found at the back of this report.

VOLATILE ORGANIC COMPOUNDS (GC-MS) SOIL

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

Acetone and Bromoform were detected in method blank MB 280-153850/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

No other difficulties were encountered during the VOC analyses.

VOLATILE ORGANIC COMPOUNDS (GC-MS) WATER

Sample SE-01 - GW (280-37307-4) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

Methylene Chloride was detected in method blank MB 280-153993/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Job ID: 280-37307-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

No other difficulties were encountered during the volatiles analysis.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample SE-01 - GW (280-37307-4) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS and LCSD provide evidence of batch precision and accuracy.

No difficulties were encountered during the SVOC analysis.

ORGANOCHLORINE PESTICIDES

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A.

The following samples were diluted due to the nature of the sample matrix: SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2), SE-01 - (34-36) (280-37307-3). Elevated reporting limits (RLs) are provided. As a result the surrogate and MS/MSD recoveries were diluted out.

The MS and MSD samples associated with batch 280-153611, and performed on client sample SE-01 - (0-2) (280-37307-1) were analyzed at a dilution due to the sample matrix; causing spike recoveries to be outside control limits for some compounds. The associated LCS was in control and provides evidence that operating procedures were in control.

No other difficulties were encountered during the pesticides analyses.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082.

The surrogate Decachlorobiphenyl recovered outside of control limits for the following samples: SE-01 - (0-2) (280-37307-1), SE-01 - (34-36) (280-37307-3), SE-01 - (0-2)MS (280-37307-1MS), SE-01 - (0-2)MSD (280-37307-1MSD). Matrix interference is evident. The associated MB and LCS were within control limits, and the surrogate Tetrachloro-m-xylene was in control indicating a successful extraction. Therefore; re-extraction and reanalysis were not performed.

The MS and MSD samples associated with batch 280-153611, and performed on client sample SE-01 - (0-2) (280-37307-1) demonstrated spike recoveries outside control limits for PCB 1260, matrix interference is evident. The associated LCS was in control and provides evidence that operating procedures were in control.

No other difficulties were encountered during the PCBs analyses.

CHLORINATED HERBICIDES

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A.

Sample SE-01 - (0-2) (280-37307-1) was analyzed at a dilution to protect the integrity of the instrument due to the nature of the sample matrix (the extract was dark yellow/brown in color). The reporting limits were raised accordingly.

The surrogate recovery method blank MB 280-153862/1-A was outside control limits biased high. There were no target analytes detected in the method blank. Therefore, data was not compromised. Also all associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

The laboratory control sample (LCS) for prep batch 280-154361 exceeded control limits for the following analyte: 2,4-D. This analyte is biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Data was flagged accordingly.

Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Job ID: 280-37307-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

The continuing calibration verification (CCV) for 2,4,5-T and Dinoseb associated with analytical batch 280-154361 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The MS and MSD spike recoveries for Dinoseb failed the recovery criteria low in batch 280-154361, performed on client sample SE-01 - (0-2) (280-37307-1). The associated LCS was in control and demonstrates that operating procedures were within control limits.

No other difficulties were encountered during the herbicides analyses.

TOTAL METALS - SOILS

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for total metals in accordance with EPA SW-846 Method 6010B.

Sample SE-01 - (34-36) (280-37307-3)[5X] required dilution prior to analysis due to matrix interference. The reporting limits have been adjusted accordingly.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

No other difficulties were encountered during the metals analyses.

TOTAL METALS - WATER

Sample SE-01 - GW (280-37307-4) was analyzed for total metals in accordance with EPA SW-846 Method 6010B.

Barium was detected in method blank MB 280-153751/1-A at a level exceeding the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analysis.

DISSOLVED METALS

Sample SE-01 - GW (280-37307-4) was analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B.

Selenium was detected in method blank MB 280-153635/1-A at a level exceeding the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No difficulties were encountered during the dissolved metals analysis.

DISSOLVED MERCURY - WATER

Sample SE-01 - GW (280-37307-4) was analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

No difficulties were encountered during the dissolved mercury analysis.

TOTAL MERCURY - WATER

Sample SE-01 - GW (280-37307-4) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A.

Mercury was detected in method blank MB 280-153532/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Job ID: 280-37307-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

No other difficulties were encountered during the mercury analysis.

TOTAL MERCURY - SOIL

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS provides evidence of batch precision and accuracy.

No other difficulties were encountered during the mercury analyses.

OIL AND GREASE (HEM)

Sample SE-01 - GW (280-37307-4) was analyzed for oil and grease (HEM) in accordance with EPA Method 1664A.

Matrix spike samples were not requested and they were not performed due to insufficient sample volume. The acceptable LCS/LCSD provides evidence of batch precision and accuracy.

No difficulties were encountered during the oil and grease analysis.

PERCENT SOLIDS

Samples SE-01 - (0-2) (280-37307-1), SE-01 - (24-26) (280-37307-2) and SE-01 - (34-36) (280-37307-3) were analyzed for percent solids in accordance with EPA SW846 3550C.

No difficulties were encountered during the % solids analyses.



Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Client Sample ID: SE-01 - (0-2)

Lab Sample ID: 280-37307-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	J B	20	5.5	ug/Kg	1	☼	8260B	Total/NA
Bromoform	0.30	J B	5.1	0.23	ug/Kg	1	☼	8260B	Total/NA
Arsenic	2200		1900	630	ug/Kg	1	☼	6010B	Total/NA
Barium	50000		960	73	ug/Kg	1	☼	6010B	Total/NA
Cadmium	100	J	480	39	ug/Kg	1	☼	6010B	Total/NA
Chromium	11000		1400	56	ug/Kg	1	☼	6010B	Total/NA
Lead	13000		770	260	ug/Kg	1	☼	6010B	Total/NA
Mercury	17		16	5.2	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: SE-01 - (24-26)

Lab Sample ID: 280-37307-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J B	24	6.4	ug/Kg	1	☼	8260B	Total/NA
Bromoform	0.27	J B	5.9	0.27	ug/Kg	1	☼	8260B	Total/NA
Arsenic	3100		2100	700	ug/Kg	1	☼	6010B	Total/NA
Barium	400000		1100	80	ug/Kg	1	☼	6010B	Total/NA
Cadmium	280	J	530	43	ug/Kg	1	☼	6010B	Total/NA
Chromium	13000		1600	61	ug/Kg	1	☼	6010B	Total/NA
Lead	11000		850	290	ug/Kg	1	☼	6010B	Total/NA
Selenium	950	J	1400	910	ug/Kg	1	☼	6010B	Total/NA
Mercury	17	J	19	6.1	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: SE-01 - (34-36)

Lab Sample ID: 280-37307-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	36		24	6.6	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	4.9	J	24	2.2	ug/Kg	1	☼	8260B	Total/NA
Carbon disulfide	1.3	J	6.1	0.51	ug/Kg	1	☼	8260B	Total/NA
Arsenic	5300	J	12000	3800	ug/Kg	5	☼	6010B	Total/NA
Barium	230000		5800	440	ug/Kg	5	☼	6010B	Total/NA
Cadmium	180	J	580	48	ug/Kg	1	☼	6010B	Total/NA
Chromium	17000		1700	67	ug/Kg	1	☼	6010B	Total/NA
Lead	12000		930	310	ug/Kg	1	☼	6010B	Total/NA
Mercury	11	J	27	8.8	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: SE-01 - GW

Lab Sample ID: 280-37307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53	J	1.0	0.16	ug/L	1		8260B	Total/NA
Barium	250	B	10	0.58	ug/L	1		6010B	Total/NA
Cadmium	0.99	J	5.0	0.45	ug/L	1		6010B	Total/NA
Chromium	7.9	J	10	0.66	ug/L	1		6010B	Total/NA
Lead	12		9.0	2.6	ug/L	1		6010B	Total/NA
Selenium	11	J	15	4.9	ug/L	1		6010B	Total/NA
Barium	170		10	0.58	ug/L	1		6010B	Dissolved
Cadmium	0.48	J	5.0	0.45	ug/L	1		6010B	Dissolved
Selenium	11	J B	15	4.9	ug/L	1		6010B	Dissolved
Mercury	0.057	J B	0.20	0.027	ug/L	1		7470A	Total/NA
HEM (Oil & Grease)	1.8		5.6	1.5	mg/L	1		1664A	Total/NA

TestAmerica Denver

Method Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8081A	Organochlorine Pesticides (GC)	SW846	TAL DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
8151A	Herbicides (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
7471A	Mercury (CVAA)	SW846	TAL DEN
1664A	Oil & Grease (HEM)	EPA	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN
Local Method	General Sub Contract Method	NONE	EMLab-OC

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37307-1	SE-01 - (0-2)	Solid	12/20/12 20:20	12/21/12 14:12
280-37307-2	SE-01 - (24-26)	Solid	12/20/12 21:08	12/21/12 14:12
280-37307-3	SE-01 - (34-36)	Solid	12/20/12 21:25	12/21/12 14:12
280-37307-4	SE-01 - GW	Water	12/20/12 23:00	12/21/12 14:12

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.1	J B	20	5.5	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
2-Butanone (MEK)	ND		20	1.9	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Benzene	ND		5.1	0.48	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chlorobenzene	ND		5.1	0.55	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Carbon disulfide	ND		5.1	0.43	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Carbon tetrachloride	ND		5.1	0.64	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Cyclohexane	ND		5.1	0.41	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2-Dibromo-3-Chloropropane	ND		10	0.61	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Bromomethane	ND		10	0.51	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Bromoform	0.30	J B	5.1	0.23	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chloroethane	ND		10	0.91	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chloroform	ND		10	0.30	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chlorobromomethane	ND		5.1	0.31	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Dichlorobromomethane	ND		5.1	0.22	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chlorodibromomethane	ND		5.1	0.58	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Isopropylbenzene	ND		5.1	0.60	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
2-Hexanone	ND		20	5.0	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Chloromethane	ND		10	0.79	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Dichlorodifluoromethane	ND		10	0.53	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
trans-1,2-Dichloroethene	ND		2.6	0.40	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
trans-1,3-Dichloropropene	ND		5.1	0.68	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Methylene Chloride	ND		5.1	1.6	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Methyl acetate	ND		10	2.8	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Methyl tert-butyl ether	ND		20	0.35	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.5	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Methylcyclohexane	ND		5.1	0.43	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Styrene	ND		5.1	0.64	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1,1,2-Tetrachloroethane	ND		5.1	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2,3-Trichlorobenzene	ND		5.1	0.77	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2,4-Trichlorobenzene	ND		5.1	0.75	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Toluene	ND		5.1	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1,1-Trichloroethane	ND		5.1	0.53	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1,2-Trichloroethane	ND		5.1	0.90	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Trichloroethene	ND		5.1	0.23	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.46	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Vinyl chloride	ND		5.1	1.4	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
m-Xylene & p-Xylene	ND		2.6	1.1	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
o-Xylene	ND		2.6	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Tetrachloroethene	ND		5.1	0.60	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2-Dichlorobenzene	ND		5.1	0.46	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,3-Dichlorobenzene	ND		5.1	0.49	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,4-Dichlorobenzene	ND		5.1	0.80	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
cis-1,2-Dichloroethene	ND		2.6	0.57	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
cis-1,3-Dichloropropene	ND		5.1	1.3	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1-Dichloroethane	ND		5.1	0.21	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,1-Dichloroethene	ND		5.1	0.60	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2-Dichloroethane	ND		5.1	0.71	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2-Dichloropropane	ND		5.1	0.56	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,4-Dioxane	ND		510	57	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.1	0.68	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
1,2-Dibromoethane	ND		5.1	0.53	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Trichlorofluoromethane	ND		10	1.1	ug/Kg	☼	12/26/12 16:00	12/27/12 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 140				12/26/12 16:00	12/27/12 00:37	1
Toluene-d8 (Surr)	86		80 - 126				12/26/12 16:00	12/27/12 00:37	1
4-Bromofluorobenzene (Surr)	80		76 - 127				12/26/12 16:00	12/27/12 00:37	1
Dibromofluoromethane (Surr)	101		75 - 121				12/26/12 16:00	12/27/12 00:37	1

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	J B	24	6.4	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
2-Butanone (MEK)	ND		24	2.2	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Benzene	ND		5.9	0.56	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chlorobenzene	ND		5.9	0.64	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Carbon disulfide	ND		5.9	0.50	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Carbon tetrachloride	ND		5.9	0.75	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Cyclohexane	ND		5.9	0.47	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2-Dibromo-3-Chloropropane	ND		12	0.71	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Bromomethane	ND		12	0.59	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Bromoform	0.27	J B	5.9	0.27	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chloroethane	ND		12	1.1	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chloroform	ND		12	0.34	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chlorobromomethane	ND		5.9	0.36	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Dichlorobromomethane	ND		5.9	0.26	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chlorodibromomethane	ND		5.9	0.68	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Isopropylbenzene	ND		5.9	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
2-Hexanone	ND		24	5.8	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Chloromethane	ND		12	0.91	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Dichlorodifluoromethane	ND		12	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
trans-1,2-Dichloroethene	ND		3.0	0.46	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
trans-1,3-Dichloropropene	ND		5.9	0.79	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Methylene Chloride	ND		5.9	1.9	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Methyl acetate	ND		12	3.3	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Methyl tert-butyl ether	ND		24	0.40	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
4-Methyl-2-pentanone (MIBK)	ND		24	5.2	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Methylcyclohexane	ND		5.9	0.50	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Styrene	ND		5.9	0.75	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1,2,2-Tetrachloroethane	ND		5.9	0.72	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2,3-Trichlorobenzene	ND		5.9	0.89	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2,4-Trichlorobenzene	ND		5.9	0.86	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Toluene	ND		5.9	0.82	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1,1-Trichloroethane	ND		5.9	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1,2-Trichloroethane	ND		5.9	1.0	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Trichloroethene	ND		5.9	0.27	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1,2-Trichlorotrifluoroethane	ND		24	0.53	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Vinyl chloride	ND		5.9	1.6	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		3.0	1.2	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
o-Xylene	ND		3.0	0.72	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Tetrachloroethene	ND		5.9	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2-Dichlorobenzene	ND		5.9	0.53	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,3-Dichlorobenzene	ND		5.9	0.57	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,4-Dichlorobenzene	ND		5.9	0.92	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
cis-1,2-Dichloroethene	ND		3.0	0.66	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
cis-1,3-Dichloropropene	ND		5.9	1.5	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1-Dichloroethane	ND		5.9	0.25	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,1-Dichloroethene	ND		5.9	0.70	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2-Dichloroethane	ND		5.9	0.83	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2-Dichloropropane	ND		5.9	0.65	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,4-Dioxane	ND		590	66	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Ethylbenzene	ND		5.9	0.79	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
1,2-Dibromoethane	ND		5.9	0.62	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1
Trichlorofluoromethane	ND		12	1.2	ug/Kg	☼	12/26/12 16:00	12/27/12 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 140	12/26/12 16:00	12/27/12 01:00	1
Toluene-d8 (Surr)	89		80 - 126	12/26/12 16:00	12/27/12 01:00	1
4-Bromofluorobenzene (Surr)	82		76 - 127	12/26/12 16:00	12/27/12 01:00	1
Dibromofluoromethane (Surr)	108		75 - 121	12/26/12 16:00	12/27/12 01:00	1

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	36		24	6.6	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
2-Butanone (MEK)	4.9	J	24	2.2	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Benzene	ND		6.1	0.57	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chlorobenzene	ND		6.1	0.66	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Carbon disulfide	1.3	J	6.1	0.51	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Carbon tetrachloride	ND		6.1	0.77	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Cyclohexane	ND		6.1	0.49	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2-Dibromo-3-Chloropropane	ND		12	0.73	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Bromomethane	ND		12	0.61	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Bromoform	ND		6.1	0.28	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chloroethane	ND		12	1.1	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chloroform	ND		12	0.35	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chlorobromomethane	ND		6.1	0.37	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Dichlorobromomethane	ND		6.1	0.27	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chlorodibromomethane	ND		6.1	0.70	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Isopropylbenzene	ND		6.1	0.72	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
2-Hexanone	ND		24	6.0	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Chloromethane	ND		12	0.94	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Dichlorodifluoromethane	ND		12	0.64	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
trans-1,2-Dichloroethene	ND		3.1	0.48	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
trans-1,3-Dichloropropene	ND		6.1	0.82	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Methylene Chloride	ND		6.1	2.0	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Methyl acetate	ND		12	3.4	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		24	0.42	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		24	5.3	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Methylcyclohexane	ND		6.1	0.51	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Styrene	ND		6.1	0.77	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1,2,2-Tetrachloroethane	ND		6.1	0.75	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2,3-Trichlorobenzene	ND		6.1	0.92	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2,4-Trichlorobenzene	ND		6.1	0.89	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Toluene	ND		6.1	0.84	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1,1-Trichloroethane	ND		6.1	0.64	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1,2-Trichloroethane	ND		6.1	1.1	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Trichloroethene	ND		6.1	0.28	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1,2-Trichlorotrifluoroethane	ND		24	0.55	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Vinyl chloride	ND		6.1	1.6	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
m-Xylene & p-Xylene	ND		3.1	1.3	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
o-Xylene	ND		3.1	0.75	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Tetrachloroethene	ND		6.1	0.72	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2-Dichlorobenzene	ND		6.1	0.55	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,3-Dichlorobenzene	ND		6.1	0.59	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,4-Dichlorobenzene	ND		6.1	0.95	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
cis-1,2-Dichloroethene	ND		3.1	0.68	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
cis-1,3-Dichloropropene	ND		6.1	1.6	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1-Dichloroethane	ND		6.1	0.26	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,1-Dichloroethene	ND		6.1	0.72	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2-Dichloroethane	ND		6.1	0.86	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2-Dichloropropane	ND		6.1	0.67	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,4-Dioxane	ND		610	69	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Ethylbenzene	ND		6.1	0.82	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
1,2-Dibromoethane	ND		6.1	0.64	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Trichlorofluoromethane	ND		12	1.3	ug/Kg	☼	12/27/12 06:00	12/27/12 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 140				12/27/12 06:00	12/27/12 15:55	1
Toluene-d8 (Surr)	111		80 - 126				12/27/12 06:00	12/27/12 15:55	1
4-Bromofluorobenzene (Surr)	111		76 - 127				12/27/12 06:00	12/27/12 15:55	1
Dibromofluoromethane (Surr)	93		75 - 121				12/27/12 06:00	12/27/12 15:55	1

Client Sample ID: SE-01 - GW

Date Collected: 12/20/12 23:00

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			12/28/12 15:07	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			12/28/12 15:07	1
Benzene	ND		1.0	0.16	ug/L			12/28/12 15:07	1
Chlorobenzene	ND		1.0	0.17	ug/L			12/28/12 15:07	1
Carbon disulfide	ND		2.0	0.45	ug/L			12/28/12 15:07	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			12/28/12 15:07	1
Cyclohexane	ND		2.0	0.28	ug/L			12/28/12 15:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			12/28/12 15:07	1
Bromomethane	ND		2.0	0.21	ug/L			12/28/12 15:07	1
Bromoform	ND		1.0	0.19	ug/L			12/28/12 15:07	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0	0.41	ug/L			12/28/12 15:07	1
Chloroform	0.53	J	1.0	0.16	ug/L			12/28/12 15:07	1
Chlorobromomethane	ND		1.0	0.10	ug/L			12/28/12 15:07	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			12/28/12 15:07	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			12/28/12 15:07	1
Isopropylbenzene	ND		1.0	0.19	ug/L			12/28/12 15:07	1
2-Hexanone	ND		5.0	1.7	ug/L			12/28/12 15:07	1
Chloromethane	ND		2.0	0.30	ug/L			12/28/12 15:07	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			12/28/12 15:07	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 15:07	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			12/28/12 15:07	1
Methylene Chloride	ND		2.0	0.32	ug/L			12/28/12 15:07	1
Methyl acetate	ND		5.0	1.6	ug/L			12/28/12 15:07	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			12/28/12 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/28/12 15:07	1
Methylcyclohexane	ND		1.0	0.36	ug/L			12/28/12 15:07	1
Styrene	ND		1.0	0.17	ug/L			12/28/12 15:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/28/12 15:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 15:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 15:07	1
Toluene	ND		1.0	0.17	ug/L			12/28/12 15:07	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			12/28/12 15:07	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/28/12 15:07	1
Trichloroethene	ND		1.0	0.16	ug/L			12/28/12 15:07	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			12/28/12 15:07	1
Vinyl chloride	ND		1.0	0.10	ug/L			12/28/12 15:07	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			12/28/12 15:07	1
o-Xylene	ND		1.0	0.19	ug/L			12/28/12 15:07	1
Tetrachloroethene	ND		1.0	0.20	ug/L			12/28/12 15:07	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/12 15:07	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			12/28/12 15:07	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/12 15:07	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 15:07	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			12/28/12 15:07	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/28/12 15:07	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/28/12 15:07	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			12/28/12 15:07	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			12/28/12 15:07	1
1,4-Dioxane	ND		200	57	ug/L			12/28/12 15:07	1
Ethylbenzene	ND		1.0	0.16	ug/L			12/28/12 15:07	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			12/28/12 15:07	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			12/28/12 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 127					12/28/12 15:07	1
Toluene-d8 (Surr)	92		80 - 125					12/28/12 15:07	1
4-Bromofluorobenzene (Surr)	89		78 - 120					12/28/12 15:07	1
Dibromofluoromethane (Surr)	106		77 - 120					12/28/12 15:07	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: SE-01 - GW

Date Collected: 12/20/12 23:00

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.5	1.7	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,2,4,5-Tetrachlorobenzene	ND		9.5	1.6	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,2,4-Trichlorobenzene	ND		3.8	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,2-Dichlorobenzene	ND		3.8	0.22	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,3-Dichlorobenzene	ND		9.5	0.28	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,4-Dichlorobenzene	ND		3.8	0.30	ug/L		12/26/12 12:25	12/31/12 21:43	1
1,4-Dioxane	ND		19	1.6	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4,6-Trichlorophenol	ND		9.5	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4-Dichlorophenol	ND		9.5	0.61	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,2'-oxybis[1-chloropropane]	ND		9.5	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,3,4,6-Tetrachlorophenol	ND		47	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4,5-Trichlorophenol	ND		9.5	0.43	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4-Dimethylphenol	ND		9.5	0.55	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4-Dinitrophenol	ND		28	9.5	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,4-Dinitrotoluene	ND		9.5	1.6	ug/L		12/26/12 12:25	12/31/12 21:43	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Chloronaphthalene	ND		3.8	0.25	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Chlorophenol	ND		9.5	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Methylnaphthalene	ND		3.8	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Methylphenol	ND		9.5	0.93	ug/L		12/26/12 12:25	12/31/12 21:43	1
3 & 4 Methylphenol	ND		9.5	0.24	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Nitroaniline	ND		9.5	1.6	ug/L		12/26/12 12:25	12/31/12 21:43	1
2-Nitrophenol	ND		9.5	0.37	ug/L		12/26/12 12:25	12/31/12 21:43	1
3,3'-Dichlorobenzidine	ND		47	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
3-Nitroaniline	ND		9.5	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
4,6-Dinitro-2-methylphenol	ND		47	3.8	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Bromophenyl phenyl ether	ND		9.5	0.41	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Chloro-3-methylphenol	ND		9.5	2.3	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Chloroaniline	ND		9.5	2.0	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Chlorophenyl phenyl ether	ND		9.5	1.6	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Nitroaniline	ND		9.5	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
4-Nitrophenol	ND		9.5	1.2	ug/L		12/26/12 12:25	12/31/12 21:43	1
Acenaphthene	ND		3.8	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
Acenaphthylene	ND		3.8	0.46	ug/L		12/26/12 12:25	12/31/12 21:43	1
Acetophenone	ND		9.5	0.23	ug/L		12/26/12 12:25	12/31/12 21:43	1
Anthracene	ND		3.8	0.40	ug/L		12/26/12 12:25	12/31/12 21:43	1
Atrazine	ND		9.5	0.69	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzaldehyde	ND		9.5	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzo[a]pyrene	ND		3.8	0.29	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzo[b]fluoranthene	ND		3.8	0.50	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzo[g,h,i]perylene	ND		3.8	0.47	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzo[k]fluoranthene	ND		3.8	0.44	ug/L		12/26/12 12:25	12/31/12 21:43	1
Benzo[a]anthracene	ND		3.8	0.33	ug/L		12/26/12 12:25	12/31/12 21:43	1
Bis(2-chloroethoxy)methane	ND		9.5	0.92	ug/L		12/26/12 12:25	12/31/12 21:43	1
Bis(2-chloroethyl)ether	ND		9.5	0.39	ug/L		12/26/12 12:25	12/31/12 21:43	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.53	ug/L		12/26/12 12:25	12/31/12 21:43	1
Butyl benzyl phthalate	ND		3.8	0.95	ug/L		12/26/12 12:25	12/31/12 21:43	1
Caprolactam	ND		9.5	4.7	ug/L		12/26/12 12:25	12/31/12 21:43	1
Carbazole	ND		3.8	0.41	ug/L		12/26/12 12:25	12/31/12 21:43	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		3.8	0.51	ug/L		12/26/12 12:25	12/31/12 21:43	1
Dibenz(a,h)anthracene	ND		3.8	0.48	ug/L		12/26/12 12:25	12/31/12 21:43	1
Di-n-butyl phthalate	ND		3.8	1.1	ug/L		12/26/12 12:25	12/31/12 21:43	1
Di-n-octyl phthalate	ND		3.8	0.33	ug/L		12/26/12 12:25	12/31/12 21:43	1
Dibenzofuran	ND		3.8	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
Diethyl phthalate	ND		3.8	0.36	ug/L		12/26/12 12:25	12/31/12 21:43	1
Dimethyl phthalate	ND		3.8	0.20	ug/L		12/26/12 12:25	12/31/12 21:43	1
Fluoranthene	ND		3.8	0.19	ug/L		12/26/12 12:25	12/31/12 21:43	1
Fluorene	ND		3.8	0.29	ug/L		12/26/12 12:25	12/31/12 21:43	1
Hexachlorobenzene	ND		9.5	0.63	ug/L		12/26/12 12:25	12/31/12 21:43	1
Hexachlorobutadiene	ND		9.5	3.1	ug/L		12/26/12 12:25	12/31/12 21:43	1
Hexachlorocyclopentadiene	ND		47	9.5	ug/L		12/26/12 12:25	12/31/12 21:43	1
Hexachloroethane	ND		9.5	2.0	ug/L		12/26/12 12:25	12/31/12 21:43	1
Indeno[1,2,3-cd]pyrene	ND		3.8	0.62	ug/L		12/26/12 12:25	12/31/12 21:43	1
Isophorone	ND		9.5	0.20	ug/L		12/26/12 12:25	12/31/12 21:43	1
N-Nitrosodi-n-propylamine	ND		9.5	0.33	ug/L		12/26/12 12:25	12/31/12 21:43	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.5	0.42	ug/L		12/26/12 12:25	12/31/12 21:43	1
Naphthalene	ND		3.8	0.27	ug/L		12/26/12 12:25	12/31/12 21:43	1
Nitrobenzene	ND		9.5	0.77	ug/L		12/26/12 12:25	12/31/12 21:43	1
Pentachlorophenol	ND		47	19	ug/L		12/26/12 12:25	12/31/12 21:43	1
Phenanthrene	ND		3.8	0.25	ug/L		12/26/12 12:25	12/31/12 21:43	1
Phenol	ND		9.5	1.9	ug/L		12/26/12 12:25	12/31/12 21:43	1
Pyrene	ND		9.5	0.35	ug/L		12/26/12 12:25	12/31/12 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		51 - 120				12/26/12 12:25	12/31/12 21:43	1
Phenol-d5	78		51 - 120				12/26/12 12:25	12/31/12 21:43	1
2,4,6-Tribromophenol	100		57 - 120				12/26/12 12:25	12/31/12 21:43	1
2-Fluorobiphenyl	75		38 - 120				12/26/12 12:25	12/31/12 21:43	1
Nitrobenzene-d5	77		48 - 120				12/26/12 12:25	12/31/12 21:43	1
Terphenyl-d14	85		50 - 120				12/26/12 12:25	12/31/12 21:43	1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: SE-01 - (0-2)
Date Collected: 12/20/12 20:20
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.8	2.8	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
4,4'-DDE	ND		8.8	1.2	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
4,4'-DDT	ND		8.8	3.0	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Aldrin	ND		8.8	1.3	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
alpha-BHC	ND		8.8	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
beta-BHC	ND		8.8	3.4	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Chlordane (n.o.s.)	ND		8.8	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
delta-BHC	ND		8.8	2.1	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Dieldrin	ND		8.8	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Endosulfan I	ND		8.8	0.91	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Endosulfan II	ND		8.8	1.5	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		8.8	1.4	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Endrin	ND		8.8	1.6	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Endrin aldehyde	ND		8.8	0.88	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
gamma-BHC (Lindane)	ND		8.8	2.4	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Heptachlor	ND		8.8	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Heptachlor epoxide	ND		8.8	2.2	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Methoxychlor	ND		17	2.3	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Toxaphene	ND		350	82	ug/Kg	☼	12/24/12 11:15	12/31/12 15:05	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81	D	63 - 124				12/24/12 11:15	12/31/12 15:05	5
Tetrachloro-m-xylene	84	D	59 - 115				12/24/12 11:15	12/31/12 15:05	5

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.63	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
4,4'-DDE	ND		2.0	0.27	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
4,4'-DDT	ND		2.0	0.68	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Aldrin	ND		2.0	0.29	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
alpha-BHC	ND		2.0	0.25	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
beta-BHC	ND		2.0	0.76	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Chlordane (n.o.s.)	ND		2.0	0.25	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
delta-BHC	ND		2.0	0.46	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Dieldrin	ND		2.0	0.24	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Endosulfan I	ND		2.0	0.20	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Endosulfan II	ND		2.0	0.33	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Endosulfan sulfate	ND		2.0	0.32	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Endrin	ND		2.0	0.35	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Endrin aldehyde	ND		2.0	0.20	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
gamma-BHC (Lindane)	ND		2.0	0.53	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Heptachlor	ND		2.0	0.25	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Heptachlor epoxide	ND		2.0	0.49	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Methoxychlor	ND		3.8	0.52	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Toxaphene	ND		77	18	ug/Kg	☼	01/03/13 20:35	01/04/13 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		63 - 124				01/03/13 20:35	01/04/13 17:51	1
Tetrachloro-m-xylene	88		59 - 115				01/03/13 20:35	01/04/13 17:51	1

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		11	3.4	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
4,4'-DDE	ND		11	1.5	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
4,4'-DDT	ND		11	3.7	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Aldrin	ND		11	1.6	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
alpha-BHC	ND		11	1.3	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		11	4.2	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Chlordane (n.o.s.)	ND		11	1.3	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
delta-BHC	ND		11	2.5	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Dieldrin	ND		11	1.3	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Endosulfan I	ND		11	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Endosulfan II	ND		11	1.8	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Endosulfan sulfate	ND		11	1.7	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Endrin	ND		11	1.9	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Endrin aldehyde	ND		11	1.1	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
gamma-BHC (Lindane)	ND		11	2.9	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Heptachlor	ND		11	1.3	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Heptachlor epoxide	ND		11	2.7	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Methoxychlor	ND		21	2.8	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Toxaphene	ND		420	100	ug/Kg	☼	12/24/12 11:15	12/31/12 16:15	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43	D	63 - 124				12/24/12 11:15	12/31/12 16:15	5
Tetrachloro-m-xylene	56	D	59 - 115				12/24/12 11:15	12/31/12 16:15	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		34	5.3	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1221	ND		49	16	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1232	ND		34	5.3	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1242	ND		34	9.4	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1248	ND		34	5.8	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1254	ND		34	5.7	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1260	ND		34	2.7	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1262	ND		34	12	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
PCB-1268	ND		34	4.1	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
Polychlorinated biphenyls, Total	ND		34	2.7	ug/Kg	☼	12/24/12 11:15	01/02/13 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46	X	59 - 130				12/24/12 11:15	01/02/13 17:35	1
Tetrachloro-m-xylene	87		53 - 128				12/24/12 11:15	01/02/13 17:35	1

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		38	5.8	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1221	ND		54	18	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1232	ND		38	5.9	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1242	ND		38	10	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1248	ND		38	6.4	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1254	ND		38	6.3	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		38	3.0	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1262	ND		38	13	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
PCB-1268	ND		38	4.5	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1
Polychlorinated biphenyls, Total	ND		38	3.0	ug/Kg	☼	01/03/13 20:35	01/07/13 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		59 - 130	01/03/13 20:35	01/07/13 17:30	1
Tetrachloro-m-xylene	85		53 - 128	01/03/13 20:35	01/07/13 17:30	1

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		42	6.4	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1221	ND		59	20	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1232	ND		42	6.5	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1242	ND		42	11	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1248	ND		42	7.1	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1254	ND		42	7.0	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1260	ND		42	3.3	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1262	ND		42	15	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
PCB-1268	ND		42	5.0	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1
Polychlorinated biphenyls, Total	ND		42	3.3	ug/Kg	☼	12/24/12 11:15	01/02/13 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	33	X	59 - 130	12/24/12 11:15	01/02/13 19:00	1
Tetrachloro-m-xylene	63		53 - 128	12/24/12 11:15	01/02/13 19:00	1

Method: 8151A - Herbicides (GC)

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	410	71	ug/Kg	☼	12/27/12 08:40	01/02/13 22:31	5
Dinoseb	ND		61	7.1	ug/Kg	☼	12/27/12 08:40	01/02/13 22:31	5
2,4,5-T	ND		100	12	ug/Kg	☼	12/27/12 08:40	01/02/13 22:31	5
Silvex (2,4,5-TP)	ND		100	7.1	ug/Kg	☼	12/27/12 08:40	01/02/13 22:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	47	D	31 - 105	12/27/12 08:40	01/02/13 22:31	5

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	96	17	ug/Kg	☼	12/27/12 08:40	01/02/13 23:38	1
Dinoseb	ND		14	1.7	ug/Kg	☼	12/27/12 08:40	01/02/13 23:38	1
2,4,5-T	ND		24	2.7	ug/Kg	☼	12/27/12 08:40	01/02/13 23:38	1
Silvex (2,4,5-TP)	ND		24	1.7	ug/Kg	☼	12/27/12 08:40	01/02/13 23:38	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		31 - 105	12/27/12 08:40	01/02/13 23:38	1

Client Sample ID: SE-01 - (34-36)	Lab Sample ID: 280-37307-3
Date Collected: 12/20/12 21:25	Matrix: Solid
Date Received: 12/21/12 14:12	Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	*	100	18	ug/Kg	☼	12/27/12 08:40	01/03/13 00:01	1
Dinoseb	ND		15	1.8	ug/Kg	☼	12/27/12 08:40	01/03/13 00:01	1
2,4,5-T	ND		25	2.9	ug/Kg	☼	12/27/12 08:40	01/03/13 00:01	1
Silvex (2,4,5-TP)	ND		25	1.8	ug/Kg	☼	12/27/12 08:40	01/03/13 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	92		31 - 105	12/27/12 08:40	01/03/13 00:01	1

Method: 6010B - Metals (ICP)

Client Sample ID: SE-01 - (0-2)	Lab Sample ID: 280-37307-1
Date Collected: 12/20/12 20:20	Matrix: Solid
Date Received: 12/21/12 14:12	Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2200		1900	630	ug/Kg	☼	12/28/12 07:30	12/31/12 15:02	1
Barium	50000		960	73	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1
Cadmium	100	J	480	39	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1
Chromium	11000		1400	56	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1
Lead	13000		770	260	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1
Selenium	ND		1200	820	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1
Silver	ND		960	150	ug/Kg	☼	12/28/12 07:30	12/28/12 19:22	1

Client Sample ID: SE-01 - (24-26)	Lab Sample ID: 280-37307-2
Date Collected: 12/20/12 21:08	Matrix: Solid
Date Received: 12/21/12 14:12	Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3100		2100	700	ug/Kg	☼	12/28/12 07:30	12/31/12 15:04	1
Barium	400000		1100	80	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1
Cadmium	280	J	530	43	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1
Chromium	13000		1600	61	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1
Lead	11000		850	290	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1
Selenium	950	J	1400	910	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1
Silver	ND		1100	170	ug/Kg	☼	12/28/12 07:30	12/28/12 19:25	1

Client Sample ID: SE-01 - (34-36)	Lab Sample ID: 280-37307-3
Date Collected: 12/20/12 21:25	Matrix: Solid
Date Received: 12/21/12 14:12	Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5300	J	12000	3800	ug/Kg	☼	12/28/12 07:30	12/31/12 15:07	5
Barium	230000		5800	440	ug/Kg	☼	12/28/12 07:30	12/31/12 15:07	5
Cadmium	180	J	580	48	ug/Kg	☼	12/28/12 07:30	12/28/12 19:28	1
Chromium	17000		1700	67	ug/Kg	☼	12/28/12 07:30	12/28/12 19:28	1
Lead	12000		930	310	ug/Kg	☼	12/28/12 07:30	12/28/12 19:28	1
Selenium	ND		1500	1000	ug/Kg	☼	12/28/12 07:30	12/28/12 19:28	1
Silver	ND		1200	190	ug/Kg	☼	12/28/12 07:30	12/28/12 19:28	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 6010B - Metals (ICP)

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/27/12 07:30	12/28/12 03:56	1
Barium	250	B	10	0.58	ug/L		12/27/12 07:30	12/28/12 03:56	1
Cadmium	0.99	J	5.0	0.45	ug/L		12/27/12 07:30	12/28/12 03:56	1
Chromium	7.9	J	10	0.66	ug/L		12/27/12 07:30	12/28/12 03:56	1
Lead	12		9.0	2.6	ug/L		12/27/12 07:30	12/28/12 03:56	1
Selenium	11	J	15	4.9	ug/L		12/27/12 07:30	12/28/12 03:56	1
Silver	ND		10	0.93	ug/L		12/27/12 07:30	12/28/12 03:56	1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:36	1
Barium	170		10	0.58	ug/L		12/28/12 12:00	12/31/12 20:36	1
Cadmium	0.48	J	5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:36	1
Chromium	ND		10	0.66	ug/L		12/28/12 12:00	12/31/12 20:36	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:36	1
Selenium	11	J B	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:36	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:36	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057	J B	0.20	0.027	ug/L		12/27/12 12:00	12/27/12 18:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:26	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SE-01 - (0-2)
Date Collected: 12/20/12 20:20
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17		16	5.2	ug/Kg	☼	12/26/12 11:35	12/26/12 15:34	1

Client Sample ID: SE-01 - (24-26)
Date Collected: 12/20/12 21:08
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2
Matrix: Solid
Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17	J	19	6.1	ug/Kg	☼	12/26/12 11:35	12/26/12 15:36	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 7471A - Mercury (CVAA)

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	J	27	8.8	ug/Kg	☼	12/26/12 11:35	12/26/12 15:38	1

General Chemistry

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	96		0.10	0.10	%			12/26/12 10:50	1

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	82		0.10	0.10	%			12/26/12 10:50	1

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.10	0.10	%			12/26/12 10:50	1
Percent Solids	76		0.10	0.10	%			12/26/12 10:50	1

Client Sample ID: SE-01 - GW

Date Collected: 12/20/12 23:00

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.8		5.6	1.5	mg/L		12/31/12 12:38	12/31/12 15:42	1

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-153850/1-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.57	J	20	5.4	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Benzene	ND		5.0	0.47	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Cyclohexane	ND		5.0	0.40	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Bromomethane	ND		10	0.50	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Bromoform	0.322	J	5.0	0.23	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloroethane	ND		10	0.89	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloroform	ND		10	0.29	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
2-Hexanone	ND		20	4.9	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Chloromethane	ND		10	0.77	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methyl acetate	ND		10	2.8	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Styrene	ND		5.0	0.63	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Toluene	ND		5.0	0.69	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/26/12 16:00	12/26/12 19:17	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153850/1-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/26/12 16:00	12/26/12 19:17	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/26/12 16:00	12/26/12 19:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		58 - 140	12/26/12 16:00	12/26/12 19:17	1
Toluene-d8 (Surr)	97		80 - 126	12/26/12 16:00	12/26/12 19:17	1
4-Bromofluorobenzene (Surr)	96		76 - 127	12/26/12 16:00	12/26/12 19:17	1
Dibromofluoromethane (Surr)	113		75 - 121	12/26/12 16:00	12/26/12 19:17	1

Lab Sample ID: LCS 280-153850/2-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/Kg		109	65 - 150
2-Butanone (MEK)	200	227		ug/Kg		113	45 - 177
Benzene	50.0	39.9		ug/Kg		80	75 - 135
Chlorobenzene	50.0	40.5		ug/Kg		81	78 - 135
Carbon disulfide	50.0	29.5		ug/Kg		59	45 - 150
Carbon tetrachloride	50.0	40.3		ug/Kg		81	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	43.4		ug/Kg		87	66 - 150
Bromomethane	50.0	43.2		ug/Kg		86	52 - 135
Bromoform	50.0	45.2		ug/Kg		90	77 - 135
Chloroethane	50.0	40.0		ug/Kg		80	51 - 145
Chloroform	50.0	39.4		ug/Kg		79	73 - 123
Chlorobromomethane	50.0	44.0		ug/Kg		88	74 - 135
Dichlorobromomethane	50.0	43.2		ug/Kg		86	73 - 135
Chlorodibromomethane	50.0	44.5		ug/Kg		89	77 - 135
Isopropylbenzene	50.0	39.3		ug/Kg		79	74 - 137
2-Hexanone	200	215		ug/Kg		108	67 - 150
Chloromethane	50.0	41.2		ug/Kg		82	41 - 138
Dichlorodifluoromethane	50.0	42.5		ug/Kg		85	32 - 152
trans-1,2-Dichloroethene	50.0	40.3		ug/Kg		81	77 - 135
trans-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	71 - 135
Methylene Chloride	50.0	42.8		ug/Kg		86	76 - 136
Methyl tert-butyl ether	50.0	47.6		ug/Kg		95	71 - 141
4-Methyl-2-pentanone (MIBK)	200	217		ug/Kg		108	69 - 150
Styrene	50.0	42.9		ug/Kg		86	76 - 135
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	65 - 135
1,2,3-Trichlorobenzene	50.0	42.4		ug/Kg		85	62 - 135
1,2,4-Trichlorobenzene	50.0	41.8		ug/Kg		84	65 - 135
Toluene	50.0	40.0		ug/Kg		80	77 - 122
1,1,1-Trichloroethane	50.0	41.6		ug/Kg		83	70 - 135
1,1,2-Trichloroethane	50.0	42.5		ug/Kg		85	78 - 135
Trichloroethene	50.0	38.6		ug/Kg		77	77 - 135
Vinyl chloride	50.0	41.9		ug/Kg		84	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153850/2-A

Matrix: Solid

Analysis Batch: 153854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	79.7		ug/Kg		80	77 - 135
o-Xylene	50.0	41.0		ug/Kg		82	75 - 135
Tetrachloroethene	50.0	39.5		ug/Kg		79	76 - 135
1,2-Dichlorobenzene	50.0	41.7		ug/Kg		83	73 - 135
1,3-Dichlorobenzene	50.0	40.5		ug/Kg		81	69 - 135
1,4-Dichlorobenzene	50.0	40.3		ug/Kg		81	73 - 135
cis-1,2-Dichloroethene	50.0	40.4		ug/Kg		81	76 - 135
cis-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	71 - 135
1,1-Dichloroethane	50.0	41.0		ug/Kg		82	70 - 135
1,1-Dichloroethene	50.0	42.2		ug/Kg		84	79 - 135
1,2-Dichloroethane	50.0	44.0		ug/Kg		88	69 - 135
1,2-Dichloropropane	50.0	40.8		ug/Kg		82	72 - 121
Ethylbenzene	50.0	40.3		ug/Kg		81	73 - 125
1,2-Dibromoethane	50.0	42.7		ug/Kg		85	76 - 135
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	48 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	111		75 - 121

Lab Sample ID: MB 280-153919/1-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153919

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		20	5.4	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Benzene	ND		5.0	0.47	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Cyclohexane	ND		5.0	0.40	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Bromomethane	ND		10	0.50	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Bromoform	ND		5.0	0.23	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloroethane	ND		10	0.89	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloroform	ND		10	0.29	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
2-Hexanone	ND		20	4.9	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloromethane	ND		10	0.77	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/27/12 06:00	12/27/12 11:35	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153919/1-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153919

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methyl acetate	ND		10	2.8	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Styrene	ND		5.0	0.63	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Toluene	ND		5.0	0.69	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,4-Dioxane	ND		500	56	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/27/12 06:00	12/27/12 11:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		58 - 140	12/27/12 06:00	12/27/12 11:35	1
Toluene-d8 (Surr)	111		80 - 126	12/27/12 06:00	12/27/12 11:35	1
4-Bromofluorobenzene (Surr)	107		76 - 127	12/27/12 06:00	12/27/12 11:35	1
Dibromofluoromethane (Surr)	92		75 - 121	12/27/12 06:00	12/27/12 11:35	1

Lab Sample ID: LCS 280-153919/2-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acetone	200	256		ug/Kg		128	65 - 150
2-Butanone (MEK)	200	305		ug/Kg		152	45 - 177
Benzene	50.0	47.9		ug/Kg		96	75 - 135
Chlorobenzene	50.0	50.5		ug/Kg		101	78 - 135
Carbon disulfide	50.0	39.8		ug/Kg		80	45 - 150

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153919/2-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	48.7		ug/Kg		97	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	59.7		ug/Kg		119	66 - 150
Bromomethane	50.0	41.0		ug/Kg		82	52 - 135
Bromoform	50.0	51.8		ug/Kg		104	77 - 135
Chloroethane	50.0	37.7		ug/Kg		75	51 - 145
Chloroform	50.0	45.2		ug/Kg		90	73 - 123
Chlorobromomethane	50.0	45.3		ug/Kg		91	74 - 135
Dichlorobromomethane	50.0	51.5		ug/Kg		103	73 - 135
Chlorodibromomethane	50.0	58.2		ug/Kg		116	77 - 135
Isopropylbenzene	50.0	53.5		ug/Kg		107	74 - 137
2-Hexanone	200	255		ug/Kg		127	67 - 150
Chloromethane	50.0	47.0		ug/Kg		94	41 - 138
Dichlorodifluoromethane	50.0	38.2		ug/Kg		76	32 - 152
trans-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	77 - 135
trans-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	71 - 135
Methylene Chloride	50.0	46.9		ug/Kg		94	76 - 136
Methyl tert-butyl ether	50.0	41.5		ug/Kg		83	71 - 141
4-Methyl-2-pentanone (MIBK)	200	242		ug/Kg		121	69 - 150
Styrene	50.0	48.7		ug/Kg		97	76 - 135
1,1,2,2-Tetrachloroethane	50.0	57.3		ug/Kg		115	65 - 135
1,2,3-Trichlorobenzene	50.0	47.4		ug/Kg		95	62 - 135
1,2,4-Trichlorobenzene	50.0	47.6		ug/Kg		95	65 - 135
Toluene	50.0	48.5		ug/Kg		97	77 - 122
1,1,1-Trichloroethane	50.0	45.5		ug/Kg		91	70 - 135
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	78 - 135
Trichloroethene	50.0	48.4		ug/Kg		97	77 - 135
Vinyl chloride	50.0	38.0		ug/Kg		76	43 - 145
m-Xylene & p-Xylene	100	99.6		ug/Kg		100	77 - 135
o-Xylene	50.0	47.9		ug/Kg		96	75 - 135
Tetrachloroethene	50.0	53.4		ug/Kg		107	76 - 135
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	73 - 135
1,3-Dichlorobenzene	50.0	50.7		ug/Kg		101	69 - 135
1,4-Dichlorobenzene	50.0	50.5		ug/Kg		101	73 - 135
cis-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	76 - 135
cis-1,3-Dichloropropene	50.0	61.1		ug/Kg		122	71 - 135
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	70 - 135
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	79 - 135
1,2-Dichloroethane	50.0	48.4		ug/Kg		97	69 - 135
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	72 - 121
Ethylbenzene	50.0	50.0		ug/Kg		100	73 - 125
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	76 - 135
Trichlorofluoromethane	50.0	36.5		ug/Kg		73	48 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153993/6

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			12/28/12 11:08	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			12/28/12 11:08	1
Benzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
Chlorobenzene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Carbon disulfide	ND		2.0	0.45	ug/L			12/28/12 11:08	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Cyclohexane	ND		2.0	0.28	ug/L			12/28/12 11:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			12/28/12 11:08	1
Bromomethane	ND		2.0	0.21	ug/L			12/28/12 11:08	1
Bromoform	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Chloroethane	ND		2.0	0.41	ug/L			12/28/12 11:08	1
Chloroform	ND		1.0	0.16	ug/L			12/28/12 11:08	1
Chlorobromomethane	ND		1.0	0.10	ug/L			12/28/12 11:08	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			12/28/12 11:08	1
Isopropylbenzene	ND		1.0	0.19	ug/L			12/28/12 11:08	1
2-Hexanone	ND		5.0	1.7	ug/L			12/28/12 11:08	1
Chloromethane	ND		2.0	0.30	ug/L			12/28/12 11:08	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			12/28/12 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			12/28/12 11:08	1
Methylene Chloride	0.490	J	2.0	0.32	ug/L			12/28/12 11:08	1
Methyl acetate	ND		5.0	1.6	ug/L			12/28/12 11:08	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			12/28/12 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/28/12 11:08	1
Methylcyclohexane	ND		1.0	0.36	ug/L			12/28/12 11:08	1
Styrene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/28/12 11:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			12/28/12 11:08	1
Toluene	ND		1.0	0.17	ug/L			12/28/12 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/28/12 11:08	1
Trichloroethene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			12/28/12 11:08	1
Vinyl chloride	ND		1.0	0.10	ug/L			12/28/12 11:08	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			12/28/12 11:08	1
o-Xylene	ND		1.0	0.19	ug/L			12/28/12 11:08	1
Tetrachloroethene	ND		1.0	0.20	ug/L			12/28/12 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			12/28/12 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			12/28/12 11:08	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/28/12 11:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/28/12 11:08	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			12/28/12 11:08	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			12/28/12 11:08	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153993/6

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		200	57	ug/L			12/28/12 11:08	1
Ethylbenzene	ND		1.0	0.16	ug/L			12/28/12 11:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			12/28/12 11:08	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			12/28/12 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 127		12/28/12 11:08	1
Toluene-d8 (Surr)	83		80 - 125		12/28/12 11:08	1
4-Bromofluorobenzene (Surr)	81		78 - 120		12/28/12 11:08	1
Dibromofluoromethane (Surr)	93		77 - 120		12/28/12 11:08	1

Lab Sample ID: LCS 280-153993/23

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.3		ug/L		102	50 - 156
2-Butanone (MEK)	20.0	26.6		ug/L		133	44 - 150
Benzene	5.00	5.39		ug/L		108	74 - 135
Chlorobenzene	5.00	5.09		ug/L		102	76 - 135
Carbon disulfide	5.00	4.77		ug/L		95	34 - 150
Carbon tetrachloride	5.00	5.24		ug/L		105	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.55	J	ug/L		91	65 - 150
Bromomethane	5.00	4.21		ug/L		84	38 - 150
Bromoform	5.00	4.57		ug/L		91	62 - 135
Chloroethane	5.00	4.31		ug/L		86	46 - 147
Chloroform	5.00	5.12		ug/L		102	76 - 120
Chlorobromomethane	5.00	5.03		ug/L		101	70 - 135
Dichlorobromomethane	5.00	5.25		ug/L		105	73 - 135
Chlorodibromomethane	5.00	4.41		ug/L		88	68 - 135
Isopropylbenzene	5.00	5.09		ug/L		102	75 - 135
2-Hexanone	20.0	18.0		ug/L		90	47 - 150
Chloromethane	5.00	4.34		ug/L		87	34 - 145
Dichlorodifluoromethane	5.00	3.94		ug/L		79	28 - 152
trans-1,2-Dichloroethene	5.00	5.54		ug/L		111	75 - 135
trans-1,3-Dichloropropene	5.00	5.01		ug/L		100	68 - 135
Methylene Chloride	5.00	5.29		ug/L		106	54 - 141
Methyl tert-butyl ether	5.00	5.07		ug/L		101	46 - 135
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/L		96	53 - 150
Styrene	5.00	4.85		ug/L		97	68 - 135
1,1,2,2-Tetrachloroethane	5.00	5.55		ug/L		111	66 - 135
1,2,3-Trichlorobenzene	5.00	4.70		ug/L		94	60 - 135
1,2,4-Trichlorobenzene	5.00	4.53		ug/L		91	64 - 135
Toluene	5.00	5.73		ug/L		115	73 - 120
1,1,1-Trichloroethane	5.00	5.23		ug/L		105	70 - 135
1,1,2-Trichloroethane	5.00	5.08		ug/L		102	73 - 135
Trichloroethene	5.00	5.13		ug/L		103	73 - 135
Vinyl chloride	5.00	4.08		ug/L		82	40 - 144

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153993/23

Matrix: Water

Analysis Batch: 153993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	74 - 135
o-Xylene	5.00	4.85		ug/L		97	73 - 135
Tetrachloroethene	5.00	4.99		ug/L		100	70 - 135
1,2-Dichlorobenzene	5.00	5.17		ug/L		103	75 - 135
1,3-Dichlorobenzene	5.00	5.13		ug/L		103	74 - 135
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	75 - 135
cis-1,2-Dichloroethene	5.00	5.31		ug/L		106	73 - 135
cis-1,3-Dichloropropene	5.00	4.35		ug/L		87	66 - 135
1,1-Dichloroethane	5.00	5.15		ug/L		103	75 - 135
1,1-Dichloroethene	5.00	6.12		ug/L		122	71 - 136
1,2-Dichloroethane	5.00	5.11		ug/L		102	70 - 135
1,2-Dichloropropane	5.00	5.13		ug/L		103	71 - 120
Ethylbenzene	5.00	5.14		ug/L		103	72 - 120
1,2-Dibromoethane	5.00	5.05		ug/L		101	71 - 135
Trichlorofluoromethane	5.00	4.08		ug/L		82	47 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 127
Toluene-d8 (Surr)	85		80 - 125
4-Bromofluorobenzene (Surr)	84		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-153760/1-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.8	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,2,4-Trichlorobenzene	ND		4.0	0.28	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,2-Dichlorobenzene	ND		4.0	0.23	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,3-Dichlorobenzene	ND		10	0.30	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,4-Dichlorobenzene	ND		4.0	0.32	ug/L		12/26/12 12:25	12/31/12 15:32	1
1,4-Dioxane	ND		20	1.7	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4,6-Trichlorophenol	ND		10	0.29	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,3,4,6-Tetrachlorophenol	ND		50	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4,5-Trichlorophenol	ND		10	0.45	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4-Dinitrophenol	ND		30	10	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		12/26/12 12:25	12/31/12 15:32	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		12/26/12 12:25	12/31/12 15:32	1
2-Chloronaphthalene	ND		4.0	0.26	ug/L		12/26/12 12:25	12/31/12 15:32	1
2-Chlorophenol	ND		10	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
2-Methylnaphthalene	ND		4.0	0.29	ug/L		12/26/12 12:25	12/31/12 15:32	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153760/1-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153760

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylphenol	ND		10	0.98	ug/L		12/26/12 12:25	12/31/12 15:32	1
3 & 4 Methylphenol	ND		10	0.25	ug/L		12/26/12 12:25	12/31/12 15:32	1
2-Nitroaniline	ND		10	1.7	ug/L		12/26/12 12:25	12/31/12 15:32	1
2-Nitrophenol	ND		10	0.39	ug/L		12/26/12 12:25	12/31/12 15:32	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
3-Nitroaniline	ND		10	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
4,6-Dinitro-2-methylphenol	ND		50	4.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Chloroaniline	ND		10	2.1	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Nitroaniline	ND		10	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
4-Nitrophenol	ND		10	1.2	ug/L		12/26/12 12:25	12/31/12 15:32	1
Acenaphthene	ND		4.0	0.28	ug/L		12/26/12 12:25	12/31/12 15:32	1
Acenaphthylene	ND		4.0	0.49	ug/L		12/26/12 12:25	12/31/12 15:32	1
Acetophenone	ND		10	0.24	ug/L		12/26/12 12:25	12/31/12 15:32	1
Anthracene	ND		4.0	0.42	ug/L		12/26/12 12:25	12/31/12 15:32	1
Atrazine	ND		10	0.73	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzaldehyde	ND		10	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzo[a]pyrene	ND		4.0	0.31	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzo[b]fluoranthene	ND		4.0	0.53	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzo[g,h,i]perylene	ND		4.0	0.50	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzo[k]fluoranthene	ND		4.0	0.46	ug/L		12/26/12 12:25	12/31/12 15:32	1
Benzo[a]anthracene	ND		4.0	0.35	ug/L		12/26/12 12:25	12/31/12 15:32	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		12/26/12 12:25	12/31/12 15:32	1
Bis(2-chloroethyl)ether	ND		10	0.41	ug/L		12/26/12 12:25	12/31/12 15:32	1
Bis(2-ethylhexyl) phthalate	ND		10	0.56	ug/L		12/26/12 12:25	12/31/12 15:32	1
Butyl benzyl phthalate	ND		4.0	1.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
Caprolactam	ND		10	5.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
Carbazole	ND		4.0	0.43	ug/L		12/26/12 12:25	12/31/12 15:32	1
Chrysene	ND		4.0	0.54	ug/L		12/26/12 12:25	12/31/12 15:32	1
Dibenz(a,h)anthracene	ND		4.0	0.51	ug/L		12/26/12 12:25	12/31/12 15:32	1
Di-n-butyl phthalate	ND		4.0	1.2	ug/L		12/26/12 12:25	12/31/12 15:32	1
Di-n-octyl phthalate	ND		4.0	0.35	ug/L		12/26/12 12:25	12/31/12 15:32	1
Dibenzofuran	ND		4.0	0.29	ug/L		12/26/12 12:25	12/31/12 15:32	1
Diethyl phthalate	ND		4.0	0.38	ug/L		12/26/12 12:25	12/31/12 15:32	1
Dimethyl phthalate	ND		4.0	0.21	ug/L		12/26/12 12:25	12/31/12 15:32	1
Fluoranthene	ND		4.0	0.20	ug/L		12/26/12 12:25	12/31/12 15:32	1
Fluorene	ND		4.0	0.31	ug/L		12/26/12 12:25	12/31/12 15:32	1
Hexachlorobenzene	ND		10	0.66	ug/L		12/26/12 12:25	12/31/12 15:32	1
Hexachlorobutadiene	ND		10	3.3	ug/L		12/26/12 12:25	12/31/12 15:32	1
Hexachlorocyclopentadiene	ND		50	10	ug/L		12/26/12 12:25	12/31/12 15:32	1
Hexachloroethane	ND		10	2.1	ug/L		12/26/12 12:25	12/31/12 15:32	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.65	ug/L		12/26/12 12:25	12/31/12 15:32	1
Isophorone	ND		10	0.21	ug/L		12/26/12 12:25	12/31/12 15:32	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		12/26/12 12:25	12/31/12 15:32	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10	0.44	ug/L		12/26/12 12:25	12/31/12 15:32	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153760/1-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0	0.29	ug/L		12/26/12 12:25	12/31/12 15:32	1
Nitrobenzene	ND		10	0.81	ug/L		12/26/12 12:25	12/31/12 15:32	1
Pentachlorophenol	ND		50	20	ug/L		12/26/12 12:25	12/31/12 15:32	1
Phenanthrene	ND		4.0	0.26	ug/L		12/26/12 12:25	12/31/12 15:32	1
Phenol	ND		10	2.0	ug/L		12/26/12 12:25	12/31/12 15:32	1
Pyrene	ND		10	0.37	ug/L		12/26/12 12:25	12/31/12 15:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		51 - 120	12/26/12 12:25	12/31/12 15:32	1
Phenol-d5	79		51 - 120	12/26/12 12:25	12/31/12 15:32	1
2,4,6-Tribromophenol	97		57 - 120	12/26/12 12:25	12/31/12 15:32	1
2-Fluorobiphenyl	64		38 - 120	12/26/12 12:25	12/31/12 15:32	1
Nitrobenzene-d5	78		48 - 120	12/26/12 12:25	12/31/12 15:32	1
Terphenyl-d14	83		50 - 120	12/26/12 12:25	12/31/12 15:32	1

Lab Sample ID: LCS 280-153760/2-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	80.0	53.7		ug/L		67	28 - 120
1,2-Dichlorobenzene	80.0	49.6		ug/L		62	28 - 120
1,3-Dichlorobenzene	80.0	46.7		ug/L		58	24 - 120
1,4-Dichlorobenzene	80.0	47.6		ug/L		59	25 - 120
2,4,6-Trichlorophenol	80.0	73.4		ug/L		92	62 - 120
2,4-Dichlorophenol	80.0	71.5		ug/L		89	62 - 120
2,2'-oxybis[1-chloropropane]	80.0	55.0		ug/L		69	49 - 120
2,4,5-Trichlorophenol	80.0	72.7		ug/L		91	64 - 120
2,4-Dimethylphenol	80.0	55.5		ug/L		69	44 - 120
2,4-Dinitrophenol	80.0	70.5		ug/L		88	55 - 120
2,4-Dinitrotoluene	80.0	73.9		ug/L		92	76 - 120
2,6-Dinitrotoluene	80.0	70.9		ug/L		89	73 - 120
2-Chloronaphthalene	80.0	62.4		ug/L		78	51 - 120
2-Chlorophenol	80.0	65.7		ug/L		82	58 - 120
2-Methylnaphthalene	80.0	58.9		ug/L		74	42 - 120
2-Methylphenol	80.0	63.8		ug/L		80	62 - 120
3 & 4 Methylphenol	160	129		ug/L		81	58 - 120
2-Nitroaniline	80.0	68.4		ug/L		86	70 - 120
2-Nitrophenol	80.0	74.1		ug/L		93	59 - 120
3,3'-Dichlorobenzidine	80.0	37.3	J	ug/L		47	10 - 120
3-Nitroaniline	80.0	69.6		ug/L		87	70 - 120
4,6-Dinitro-2-methylphenol	80.0	76.7		ug/L		96	63 - 125
4-Bromophenyl phenyl ether	80.0	67.3		ug/L		84	69 - 120
4-Chloro-3-methylphenol	80.0	72.3		ug/L		90	69 - 120
4-Chloroaniline	80.0	63.3		ug/L		79	60 - 120
4-Chlorophenyl phenyl ether	80.0	67.7		ug/L		85	67 - 120
4-Nitroaniline	80.0	72.7		ug/L		91	70 - 120
4-Nitrophenol	80.0	74.8		ug/L		93	59 - 129

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153760/2-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	80.0	64.2		ug/L		80	61 - 120
Acenaphthylene	80.0	65.7		ug/L		82	63 - 120
Anthracene	80.0	63.9		ug/L		80	71 - 120
Benzo[a]pyrene	80.0	57.1		ug/L		71	63 - 120
Benzo[b]fluoranthene	80.0	63.6		ug/L		80	65 - 120
Benzo[g,h,i]perylene	80.0	68.1		ug/L		85	69 - 120
Benzo[k]fluoranthene	80.0	66.0		ug/L		83	66 - 120
Benzo[a]anthracene	80.0	65.4		ug/L		82	71 - 120
Bis(2-chloroethoxy)methane	80.0	65.8		ug/L		82	64 - 120
Bis(2-chloroethyl)ether	80.0	63.8		ug/L		80	60 - 120
Bis(2-ethylhexyl) phthalate	80.0	70.4		ug/L		88	62 - 133
Butyl benzyl phthalate	80.0	67.5		ug/L		84	71 - 120
Carbazole	80.0	65.0		ug/L		81	72 - 120
Chrysene	80.0	64.4		ug/L		80	69 - 120
Dibenz(a,h)anthracene	80.0	68.2		ug/L		85	63 - 120
Di-n-butyl phthalate	80.0	68.0		ug/L		85	75 - 120
Di-n-octyl phthalate	80.0	67.5		ug/L		84	71 - 120
Diethyl phthalate	80.0	70.2		ug/L		88	73 - 120
Dimethyl phthalate	80.0	69.4		ug/L		87	73 - 120
Fluoranthene	80.0	67.6		ug/L		85	73 - 120
Fluorene	80.0	65.8		ug/L		82	68 - 120
Hexachlorobenzene	80.0	66.4		ug/L		83	69 - 120
Hexachlorobutadiene	80.0	49.9		ug/L		62	24 - 120
Hexachlorocyclopentadiene	80.0	12.9	J	ug/L		16	10 - 120
Hexachloroethane	80.0	46.0		ug/L		57	21 - 120
Indeno[1,2,3-cd]pyrene	80.0	65.5		ug/L		82	63 - 120
Isophorone	80.0	68.8		ug/L		86	65 - 120
N-Nitrosodi-n-propylamine	80.0	65.9		ug/L		82	58 - 120
n-Nitrosodiphenylamine(as diphenylamine)	68.3	54.4		ug/L		80	66 - 120
Naphthalene	80.0	56.8		ug/L		71	39 - 120
Nitrobenzene	80.0	64.6		ug/L		81	59 - 120
Pentachlorophenol	80.0	69.3		ug/L		87	57 - 120
Phenanthrene	80.0	65.5		ug/L		82	71 - 120
Phenol	80.0	66.5		ug/L		83	61 - 120
Pyrene	80.0	64.7		ug/L		81	71 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	78		51 - 120
Phenol-d5	83		51 - 120
2,4,6-Tribromophenol	101		57 - 120
2-Fluorobiphenyl	78		38 - 120
Nitrobenzene-d5	83		48 - 120
Terphenyl-d14	83		50 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-153611/1-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.53	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
4,4'-DDE	ND		1.6	0.23	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
4,4'-DDT	ND		1.6	0.57	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Aldrin	ND		1.6	0.24	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
alpha-BHC	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
beta-BHC	ND		1.6	0.64	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Chlordane (n.o.s.)	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
delta-BHC	ND		1.6	0.39	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Dieldrin	ND		1.6	0.20	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan I	ND		1.6	0.17	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan II	ND		1.6	0.28	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endosulfan sulfate	ND		1.6	0.27	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endrin	ND		1.6	0.29	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Endrin aldehyde	ND		1.6	0.16	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
gamma-BHC (Lindane)	ND		1.6	0.45	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Heptachlor	ND		1.6	0.21	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Heptachlor epoxide	ND		1.6	0.41	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Methoxychlor	ND		3.2	0.43	ug/Kg		12/24/12 11:15	12/31/12 16:32	1
Toxaphene	ND		64	15	ug/Kg		12/24/12 11:15	12/31/12 16:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		63 - 124	12/24/12 11:15	12/31/12 16:32	1
Tetrachloro-m-xylene	86		59 - 115	12/24/12 11:15	12/31/12 16:32	1

Lab Sample ID: LCS 280-153611/2-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	16.1		ug/Kg		98	54 - 130
4,4'-DDE	16.4	15.7		ug/Kg		96	58 - 121
4,4'-DDT	16.4	16.5		ug/Kg		101	57 - 133
Aldrin	16.4	14.2		ug/Kg		86	63 - 115
alpha-BHC	16.4	14.1		ug/Kg		86	64 - 116
beta-BHC	16.4	14.5		ug/Kg		89	67 - 115
delta-BHC	16.4	15.2		ug/Kg		93	67 - 115
Dieldrin	16.4	16.2		ug/Kg		99	65 - 127
Endosulfan I	16.4	15.5		ug/Kg		94	65 - 118
Endosulfan II	16.4	16.0		ug/Kg		98	71 - 118
Endosulfan sulfate	16.4	15.8		ug/Kg		96	67 - 123
Endrin	16.4	18.2		ug/Kg		111	77 - 134
Endrin aldehyde	16.4	9.56		ug/Kg		58	47 - 115
gamma-BHC (Lindane)	16.4	14.5		ug/Kg		88	63 - 118
Heptachlor	16.4	14.1		ug/Kg		86	68 - 115
Methoxychlor	16.4	16.2		ug/Kg		99	67 - 130

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-153611/2-A

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153611

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	94		63 - 124
Tetrachloro-m-xylene	85		59 - 115

Lab Sample ID: 280-37307-1 MS

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: SE-01 - (0-2)

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit 1	Limit 2
4,4'-DDD	ND		16.0	ND	D	ug/Kg	*	0	54 - 130	
4,4'-DDE	ND		16.0	15.2	D	ug/Kg	*	95	58 - 121	
4,4'-DDT	ND		16.0	15.5	D	ug/Kg	*	97	57 - 133	
Aldrin	ND		16.0	15.4	D	ug/Kg	*	96	63 - 115	
alpha-BHC	ND		16.0	16.0	D	ug/Kg	*	100	64 - 116	
beta-BHC	ND		16.0	16.5	D	ug/Kg	*	103	67 - 115	
delta-BHC	ND		16.0	16.3	D	ug/Kg	*	102	67 - 115	
Dieldrin	ND		16.0	15.1	D	ug/Kg	*	94	65 - 127	
Endosulfan I	ND		16.0	14.6	D	ug/Kg	*	91	65 - 118	
Endosulfan II	ND		16.0	14.4	D	ug/Kg	*	90	71 - 118	
Endosulfan sulfate	ND		16.0	14.4	D	ug/Kg	*	90	67 - 123	
Endrin	ND		16.0	17.4	D	ug/Kg	*	109	77 - 134	
Endrin aldehyde	ND		16.0	11.2	D	ug/Kg	*	70	47 - 115	
gamma-BHC (Lindane)	ND		16.0	15.8	D	ug/Kg	*	99	63 - 118	
Heptachlor	ND		16.0	18.5	D	ug/Kg	*	116	68 - 115	
Methoxychlor	ND		16.0	14.9	J D	ug/Kg	*	93	67 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	89	D	63 - 124
Tetrachloro-m-xylene	91	D	59 - 115

Lab Sample ID: 280-37307-1 MSD

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: SE-01 - (0-2)

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits		RPD	
				Result	Qualifier				Limit 1	Limit 2	RPD	Limit
4,4'-DDD	ND		16.9	ND	D	ug/Kg	*	0	54 - 130	NC	20	
4,4'-DDE	ND		16.9	16.7	D	ug/Kg	*	98	58 - 121	10	15	
4,4'-DDT	ND		16.9	16.7	D	ug/Kg	*	99	57 - 133	7	29	
Aldrin	ND		16.9	16.9	D	ug/Kg	*	100	63 - 115	9	50	
alpha-BHC	ND		16.9	17.5	D	ug/Kg	*	103	64 - 116	9	17	
beta-BHC	ND		16.9	18.2	D	ug/Kg	*	107	67 - 115	9	17	
delta-BHC	ND		16.9	17.9	D	ug/Kg	*	106	67 - 115	10	19	
Dieldrin	ND		16.9	16.5	D	ug/Kg	*	97	65 - 127	9	25	
Endosulfan I	ND		16.9	16.0	D	ug/Kg	*	95	65 - 118	9	26	
Endosulfan II	ND		16.9	15.6	D	ug/Kg	*	92	71 - 118	8	20	
Endosulfan sulfate	ND		16.9	15.5	D	ug/Kg	*	91	67 - 123	7	22	
Endrin	ND		16.9	19.2	D	ug/Kg	*	114	77 - 134	10	30	
Endrin aldehyde	ND		16.9	11.7	D	ug/Kg	*	69	47 - 115	4	29	
gamma-BHC (Lindane)	ND		16.9	17.3	D	ug/Kg	*	102	63 - 118	9	24	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-37307-1 MSD

Matrix: Solid

Analysis Batch: 154261

Client Sample ID: SE-01 - (0-2)

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor	ND		16.9	20.3	D	ug/Kg	✱	120	68 - 115	9	18
Methoxychlor	ND		16.9	16.1	J D	ug/Kg	✱	95	67 - 130	8	23
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	88	D	63 - 124								
Tetrachloro-m-xylene	96	D	59 - 115								

Lab Sample ID: MB 280-154525/1-A

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154525

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7	0.54	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
4,4'-DDE	ND		1.7	0.23	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
4,4'-DDT	ND		1.7	0.58	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Aldrin	ND		1.7	0.25	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
alpha-BHC	ND		1.7	0.21	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
beta-BHC	ND		1.7	0.66	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Chlordane (n.o.s.)	ND		1.7	0.21	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
delta-BHC	ND		1.7	0.40	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Dieldrin	ND		1.7	0.21	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Endosulfan I	ND		1.7	0.17	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Endosulfan II	ND		1.7	0.28	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Endosulfan sulfate	ND		1.7	0.27	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Endrin	ND		1.7	0.30	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Endrin aldehyde	ND		1.7	0.17	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
gamma-BHC (Lindane)	ND		1.7	0.46	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Heptachlor	ND		1.7	0.21	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Heptachlor epoxide	ND		1.7	0.42	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Methoxychlor	ND		3.3	0.44	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
Toxaphene	ND		66	16	ug/Kg		01/03/13 20:35	01/04/13 17:00	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl	101		63 - 124	01/03/13 20:35	01/04/13 17:00	1			
Tetrachloro-m-xylene	89		59 - 115	01/03/13 20:35	01/04/13 17:00	1			

Lab Sample ID: LCS 280-154525/2-A

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				Qualifier
4,4'-DDD	15.4	16.5		ug/Kg		107	54 - 130
4,4'-DDE	15.4	15.2		ug/Kg		99	58 - 121
4,4'-DDT	15.4	15.3		ug/Kg		99	57 - 133
Aldrin	15.4	15.2		ug/Kg		99	63 - 115
alpha-BHC	15.4	15.3		ug/Kg		100	64 - 116
beta-BHC	15.4	15.5		ug/Kg		101	67 - 115
delta-BHC	15.4	15.7		ug/Kg		102	67 - 115

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-154525/2-A

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	15.4	15.2		ug/Kg		99	65 - 127
Endosulfan I	15.4	14.7		ug/Kg		96	65 - 118
Endosulfan II	15.4	15.3		ug/Kg		100	71 - 118
Endosulfan sulfate	15.4	15.0		ug/Kg		97	67 - 123
Endrin	15.4	17.1		ug/Kg		111	77 - 134
Endrin aldehyde	15.4	13.6		ug/Kg		88	47 - 115
gamma-BHC (Lindane)	15.4	15.5		ug/Kg		100	63 - 118
Heptachlor	15.4	15.1		ug/Kg		98	68 - 115
Methoxychlor	15.4	15.6		ug/Kg		101	67 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	105		63 - 124
Tetrachloro-m-xylene	96		59 - 115

Lab Sample ID: 280-37307-2 MS

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: SE-01 - (24-26)

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		19.8	18.2		ug/Kg	☼	92	54 - 130
4,4'-DDE	ND		19.8	17.6		ug/Kg	☼	89	58 - 121
4,4'-DDT	ND		19.8	17.9		ug/Kg	☼	90	57 - 133
Aldrin	ND		19.8	17.5		ug/Kg	☼	89	63 - 115
alpha-BHC	ND		19.8	17.8		ug/Kg	☼	90	64 - 116
beta-BHC	ND		19.8	18.0		ug/Kg	☼	91	67 - 115
delta-BHC	ND		19.8	17.4		ug/Kg	☼	88	67 - 115
Dieldrin	ND		19.8	17.1		ug/Kg	☼	86	65 - 127
Endosulfan I	ND		19.8	16.3		ug/Kg	☼	82	65 - 118
Endosulfan II	ND		19.8	16.6		ug/Kg	☼	84	71 - 118
Endosulfan sulfate	ND		19.8	16.3		ug/Kg	☼	82	67 - 123
Endrin	ND		19.8	19.8		ug/Kg	☼	100	77 - 134
Endrin aldehyde	ND		19.8	9.93		ug/Kg	☼	50	47 - 115
gamma-BHC (Lindane)	ND		19.8	18.3		ug/Kg	☼	92	63 - 118
Heptachlor	ND		19.8	16.3		ug/Kg	☼	82	68 - 115
Methoxychlor	ND		19.8	17.5		ug/Kg	☼	88	67 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	86		63 - 124
Tetrachloro-m-xylene	86		59 - 115

Lab Sample ID: 280-37307-2 MSD

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: SE-01 - (24-26)

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		19.7	18.6		ug/Kg	☼	94	54 - 130	2	20
4,4'-DDE	ND		19.7	17.8		ug/Kg	☼	90	58 - 121	1	15
4,4'-DDT	ND		19.7	18.7		ug/Kg	☼	95	57 - 133	4	29

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-37307-2 MSD

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: SE-01 - (24-26)

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Aldrin	ND		19.7	17.5		ug/Kg	*	89	63 - 115	0	50
alpha-BHC	ND		19.7	17.8		ug/Kg	*	90	64 - 116	0	17
beta-BHC	ND		19.7	17.7		ug/Kg	*	90	67 - 115	2	17
delta-BHC	ND		19.7	17.8		ug/Kg	*	91	67 - 115	2	19
Dieldrin	ND		19.7	17.4		ug/Kg	*	88	65 - 127	2	25
Endosulfan I	ND		19.7	16.5		ug/Kg	*	84	65 - 118	1	26
Endosulfan II	ND		19.7	17.3		ug/Kg	*	88	71 - 118	4	20
Endosulfan sulfate	ND		19.7	17.0		ug/Kg	*	86	67 - 123	4	22
Endrin	ND		19.7	20.1		ug/Kg	*	102	77 - 134	1	30
Endrin aldehyde	ND		19.7	10.7		ug/Kg	*	54	47 - 115	7	29
gamma-BHC (Lindane)	ND		19.7	18.1		ug/Kg	*	92	63 - 118	1	24
Heptachlor	ND		19.7	16.9		ug/Kg	*	86	68 - 115	4	18
Methoxychlor	ND		19.7	18.6		ug/Kg	*	94	67 - 130	6	23
		MSD	MSD								
Surrogate		%Recovery	Qualifier		Limits						
DCB Decachlorobiphenyl		106			63 - 124						
Tetrachloro-m-xylene		88			59 - 115						

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-153611/1-A

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153611

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		32	4.9	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1221	ND		45	15	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1232	ND		32	4.9	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1242	ND		32	8.8	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1248	ND		32	5.4	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1254	ND		32	5.3	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1260	ND		32	2.5	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1262	ND		32	11	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
PCB-1268	ND		32	3.8	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
Polychlorinated biphenyls, Total	ND		32	2.5	ug/Kg		12/24/12 11:15	01/02/13 16:52	1
		MB	MB						
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl		83			59 - 130		12/24/12 11:15	01/02/13 16:52	1
Tetrachloro-m-xylene		93			53 - 128		12/24/12 11:15	01/02/13 16:52	1

Lab Sample ID: LCS 280-153611/4-A

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153611

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				Qualifier
PCB-1016	62.1	58.7		ug/Kg		95	54 - 132
PCB-1260	62.1	54.1		ug/Kg		87	62 - 129

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 280-153611/4-A
Matrix: Solid
Analysis Batch: 154408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153611

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Lab Sample ID: 280-37307-1 MS
Matrix: Solid
Analysis Batch: 154408

Client Sample ID: SE-01 - (0-2)
Prep Type: Total/NA
Prep Batch: 153611

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
PCB-1016	ND		68.2	50.3		ug/Kg	☼	74		54 - 132
PCB-1260	ND		68.2	34.4	F	ug/Kg	☼	50		62 - 129

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	43	X	59 - 130
Tetrachloro-m-xylene	82		53 - 128

Lab Sample ID: 280-37307-1 MSD
Matrix: Solid
Analysis Batch: 154408

Client Sample ID: SE-01 - (0-2)
Prep Type: Total/NA
Prep Batch: 153611

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
PCB-1016	ND		67.8	50.0		ug/Kg	☼	74		54 - 132	1	36
PCB-1260	ND		67.8	33.3	J F	ug/Kg	☼	49		62 - 129	3	44

Surrogate	MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	42	X	59 - 130
Tetrachloro-m-xylene	81		53 - 128

Lab Sample ID: MB 280-154525/1-A
Matrix: Solid
Analysis Batch: 154966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154525

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
PCB-1016	ND		33	5.0	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1221	ND		46	15	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1232	ND		33	5.1	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1242	ND		33	9.0	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1248	ND		33	5.5	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1254	ND		33	5.4	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1260	ND		33	2.6	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1262	ND		33	11	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
PCB-1268	ND		33	3.9	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	
Polychlorinated biphenyls, Total	ND		33	2.6	ug/Kg		01/03/13 20:35	01/07/13 16:43	1	

Surrogate	MB		Limits	Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier					
DCB Decachlorobiphenyl	88		59 - 130	01/03/13 20:35	01/07/13 16:43	1	
Tetrachloro-m-xylene	90		53 - 128	01/03/13 20:35	01/07/13 16:43	1	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 280-154525/3-A

Matrix: Solid

Analysis Batch: 154966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	60.6	58.2		ug/Kg		96	54 - 132
PCB-1260	60.6	60.7		ug/Kg		100	62 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Lab Sample ID: 280-37307-2 MS

Matrix: Solid

Analysis Batch: 154966

Client Sample ID: SE-01 - (24-26)

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		76.5	80.9		ug/Kg	☼	106	54 - 132
PCB-1260	ND		76.5	70.2		ug/Kg	☼	92	62 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Lab Sample ID: 280-37307-2 MSD

Matrix: Solid

Analysis Batch: 154966

Client Sample ID: SE-01 - (24-26)

Prep Type: Total/NA

Prep Batch: 154525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		79.5	84.4		ug/Kg	☼	106	54 - 132	4	36
PCB-1260	ND		79.5	77.7		ug/Kg	☼	98	62 - 129	10	44

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	83		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-153862/1-A

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		79	14	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
Dinoseb	ND		12	1.4	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
2,4,5-T	ND		20	2.3	ug/Kg		12/27/12 08:40	01/02/13 14:16	1
Silvex (2,4,5-TP)	ND		20	1.4	ug/Kg		12/27/12 08:40	01/02/13 14:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	121	X	31 - 105	12/27/12 08:40	01/02/13 14:16	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 280-153862/2-A

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	88.0	122	*	ug/Kg		138	32 - 115
Dinoseb	88.0	13.6		ug/Kg		15	5 - 166
2,4,5-T	91.8	100		ug/Kg		109	24 - 115
Silvex (2,4,5-TP)	88.0	111		ug/Kg		126	53 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	105		31 - 105

Lab Sample ID: 280-37307-1 MS

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: SE-01 - (0-2)

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	ND	*	91.1	97.5	J D	ug/Kg	☼	107	32 - 115
Dinoseb	ND		91.1	ND	D	ug/Kg	☼	0	5 - 166
2,4,5-T	ND		95.0	93.7	J D	ug/Kg	☼	99	24 - 115
Silvex (2,4,5-TP)	ND		91.1	87.1	J D	ug/Kg	☼	96	53 - 134

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	63	D	31 - 105

Lab Sample ID: 280-37307-1 MSD

Matrix: Solid

Analysis Batch: 154361

Client Sample ID: SE-01 - (0-2)

Prep Type: Total/NA

Prep Batch: 153862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	ND	*	94.3	105	J D	ug/Kg	☼	112	32 - 115	8	40
Dinoseb	ND		94.3	ND	D	ug/Kg	☼	0	5 - 166	NC	50
2,4,5-T	ND		98.4	101	D	ug/Kg	☼	103	24 - 115	8	40
Silvex (2,4,5-TP)	ND		94.3	96.0	J D	ug/Kg	☼	102	53 - 134	10	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	90	D	31 - 105

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-153633/1-A

Matrix: Solid

Analysis Batch: 154235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		1000	76	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Cadmium	ND		500	41	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Chromium	ND		1500	58	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Lead	ND		800	270	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Selenium	ND		1300	860	ug/Kg		12/28/12 07:30	12/28/12 18:52	1
Silver	ND		1000	160	ug/Kg		12/28/12 07:30	12/28/12 18:52	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 280-153633/1-A

Matrix: Solid

Analysis Batch: 154331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2000	660	ug/Kg		12/28/12 07:30	12/31/12 15:20	1

Lab Sample ID: LCS 280-153633/2-A

Matrix: Solid

Analysis Batch: 154235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200000	204000		ug/Kg		102	87 - 112
Cadmium	10000	11000		ug/Kg		110	87 - 110
Chromium	20000	21700		ug/Kg		108	84 - 114
Lead	50000	52100		ug/Kg		104	86 - 110
Selenium	200000	209000		ug/Kg		104	83 - 110
Silver	5000	5250		ug/Kg		105	87 - 114

Lab Sample ID: LCS 280-153633/2-A

Matrix: Solid

Analysis Batch: 154331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100000	98300		ug/Kg		98	85 - 110

Lab Sample ID: MB 280-153751/1-A

Matrix: Water

Analysis Batch: 154008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/27/12 07:30	12/28/12 03:52	1
Barium	2.09	J	10	0.58	ug/L		12/27/12 07:30	12/28/12 03:52	1
Cadmium	ND		5.0	0.45	ug/L		12/27/12 07:30	12/28/12 03:52	1
Chromium	ND		10	0.66	ug/L		12/27/12 07:30	12/28/12 03:52	1
Lead	ND		9.0	2.6	ug/L		12/27/12 07:30	12/28/12 03:52	1
Selenium	ND		15	4.9	ug/L		12/27/12 07:30	12/28/12 03:52	1
Silver	ND		10	0.93	ug/L		12/27/12 07:30	12/28/12 03:52	1

Lab Sample ID: LCS 280-153751/2-A

Matrix: Water

Analysis Batch: 154008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1030		ug/L		103	88 - 110
Barium	2000	2120		ug/L		106	90 - 112
Cadmium	100	107		ug/L		107	88 - 111
Chromium	200	203		ug/L		102	90 - 113
Lead	500	513		ug/L		103	89 - 110
Selenium	2000	1960		ug/L		98	85 - 112
Silver	50.0	51.6		ug/L		103	86 - 115

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-37307-4 MS

Matrix: Water

Analysis Batch: 154008

Client Sample ID: SE-01 - GW

Prep Type: Total/NA

Prep Batch: 153751

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Arsenic	ND		1000	1050		ug/L		105	84 - 124	
Barium	250	B	2000	2380		ug/L		107	85 - 120	
Cadmium	0.99	J	100	108		ug/L		107	82 - 119	
Chromium	7.9	J	200	212		ug/L		102	73 - 135	
Lead	12		500	509		ug/L		99	89 - 121	
Selenium	11	J	2000	1970		ug/L		98	71 - 140	
Silver	ND		50.0	52.8		ug/L		106	75 - 141	

Lab Sample ID: 280-37307-4 MSD

Matrix: Water

Analysis Batch: 154008

Client Sample ID: SE-01 - GW

Prep Type: Total/NA

Prep Batch: 153751

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	Limits	RPD	Limit
Arsenic	ND		1000	1030		ug/L		103	84 - 124	2	20	
Barium	250	B	2000	2340		ug/L		105	85 - 120	2	20	
Cadmium	0.99	J	100	106		ug/L		105	82 - 119	2	20	
Chromium	7.9	J	200	207		ug/L		100	73 - 135	2	20	
Lead	12		500	499		ug/L		97	89 - 121	2	20	
Selenium	11	J	2000	1930		ug/L		96	71 - 140	2	20	
Silver	ND		50.0	51.3		ug/L		103	75 - 141	3	20	

Lab Sample ID: MB 280-153635/1-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 153635

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:30		1
Barium	ND		10	0.58	ug/L		12/28/12 12:00	12/31/12 20:30		1
Cadmium	ND		5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:30		1
Chromium	ND		10	0.66	ug/L		12/28/12 12:00	12/31/12 20:30		1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:30		1
Selenium	5.20	J	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:30		1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:30		1

Lab Sample ID: LCS 280-153635/2-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 153635

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Added	Result				Qualifier	Limits
Arsenic	1000	1050		ug/L		105	88 - 110	
Barium	2000	2080		ug/L		104	90 - 112	
Cadmium	100	109		ug/L		109	88 - 111	
Chromium	200	206		ug/L		103	90 - 113	
Lead	500	522		ug/L		104	89 - 110	
Selenium	2000	2100		ug/L		105	85 - 112	
Silver	50.0	53.6		ug/L		107	86 - 115	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-37307-4 MS
Matrix: Water
Analysis Batch: 154339

Client Sample ID: SE-01 - GW
Prep Type: Dissolved
Prep Batch: 153635

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Arsenic	ND		1000	1070		ug/L		107		84 - 124
Barium	170		2000	2250		ug/L		104		85 - 120
Cadmium	0.48	J	100	109		ug/L		108		82 - 119
Chromium	ND		200	206		ug/L		103		73 - 135
Lead	ND		500	505		ug/L		101		89 - 121
Selenium	11	J B	2000	2070		ug/L		103		71 - 140
Silver	ND		50.0	54.2		ug/L		108		75 - 141

Lab Sample ID: 280-37307-4 MSD
Matrix: Water
Analysis Batch: 154339

Client Sample ID: SE-01 - GW
Prep Type: Dissolved
Prep Batch: 153635

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						RPD	Limit
Arsenic	ND		1000	1040		ug/L		104		84 - 124	2	20
Barium	170		2000	2230		ug/L		103		85 - 120	1	20
Cadmium	0.48	J	100	107		ug/L		107		82 - 119	1	20
Chromium	ND		200	203		ug/L		101		73 - 135	2	20
Lead	ND		500	499		ug/L		100		89 - 121	1	20
Selenium	11	J B	2000	2050		ug/L		102		71 - 140	1	20
Silver	ND		50.0	53.0		ug/L		106		75 - 141	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-153532/1-A
Matrix: Water
Analysis Batch: 154037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153532

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0290	J	0.20	0.027	ug/L		12/27/12 12:00	12/27/12 17:55	1

Lab Sample ID: LCS 280-153532/2-A
Matrix: Water
Analysis Batch: 154037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153532

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Mercury	5.00	4.81		ug/L		96		84 - 120

Lab Sample ID: MB 280-154019/1-A
Matrix: Water
Analysis Batch: 154241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154019

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:15	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-154019/2-A
Matrix: Water
Analysis Batch: 154241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.98		ug/L		100	84 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-153674/1-A
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		12/26/12 11:35	12/26/12 15:13	1

Lab Sample ID: LCS 280-153674/2-A
Matrix: Solid
Analysis Batch: 153837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	420		ug/Kg		101	87 - 111

Method: 1664A - Oil & Grease (HEM)

Lab Sample ID: MB 280-154288/1-A
Matrix: Water
Analysis Batch: 154310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L		12/31/12 12:38	12/31/12 15:42	1

Lab Sample ID: LCS 280-154288/2-A
Matrix: Water
Analysis Batch: 154310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	38.1		mg/L		95	81 - 107

Lab Sample ID: LCSD 280-154288/3-A
Matrix: Water
Analysis Batch: 154310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 154288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	36.6		mg/L		92	81 - 107	4	22

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

GC/MS VOA

Prep Batch: 153850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	5030B	
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	5030B	
LCS 280-153850/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-153850/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 153854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	8260B	153850
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	8260B	153850
LCS 280-153850/2-A	Lab Control Sample	Total/NA	Solid	8260B	153850
MB 280-153850/1-A	Method Blank	Total/NA	Solid	8260B	153850

Analysis Batch: 153872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	8260B	153919
LCS 280-153919/2-A	Lab Control Sample	Total/NA	Solid	8260B	153919
MB 280-153919/1-A	Method Blank	Total/NA	Solid	8260B	153919

Prep Batch: 153919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	5030B	
LCS 280-153919/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-153919/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 153993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	8260B	
LCS 280-153993/23	Lab Control Sample	Total/NA	Water	8260B	
MB 280-153993/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 153760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	3520C	
LCS 280-153760/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-153760/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 154290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	8270C	153760
LCS 280-153760/2-A	Lab Control Sample	Total/NA	Water	8270C	153760
MB 280-153760/1-A	Method Blank	Total/NA	Water	8270C	153760

GC Semi VOA

Prep Batch: 153611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	3546	
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	3546	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

GC Semi VOA (Continued)

Prep Batch: 153611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	3546	
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	3546	
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	3546	
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	3546	
LCS 280-153611/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 280-153611/4-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-153611/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 153862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	8151A	
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	8151A	
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	8151A	
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	8151A	
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	8151A	
LCS 280-153862/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 280-153862/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 154261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	8081A	153611
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	8081A	153611
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	8081A	153611
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	8081A	153611
LCS 280-153611/2-A	Lab Control Sample	Total/NA	Solid	8081A	153611
MB 280-153611/1-A	Method Blank	Total/NA	Solid	8081A	153611

Analysis Batch: 154361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	8151A	153862
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	8151A	153862
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	8151A	153862
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	8151A	153862
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	8151A	153862
LCS 280-153862/2-A	Lab Control Sample	Total/NA	Solid	8151A	153862
MB 280-153862/1-A	Method Blank	Total/NA	Solid	8151A	153862

Analysis Batch: 154408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	8082	153611
280-37307-1 MS	SE-01 - (0-2)	Total/NA	Solid	8082	153611
280-37307-1 MSD	SE-01 - (0-2)	Total/NA	Solid	8082	153611
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	8082	153611
LCS 280-153611/4-A	Lab Control Sample	Total/NA	Solid	8082	153611
MB 280-153611/1-A	Method Blank	Total/NA	Solid	8082	153611

Prep Batch: 154525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	3546	
280-37307-2 MS	SE-01 - (24-26)	Total/NA	Solid	3546	
280-37307-2 MS	SE-01 - (24-26)	Total/NA	Solid	3546	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

GC Semi VOA (Continued)

Prep Batch: 154525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-2 MSD	SE-01 - (24-26)	Total/NA	Solid	3546	
280-37307-2 MSD	SE-01 - (24-26)	Total/NA	Solid	3546	
LCS 280-154525/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 280-154525/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-154525/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 154637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	8081A	154525
280-37307-2 MS	SE-01 - (24-26)	Total/NA	Solid	8081A	154525
280-37307-2 MSD	SE-01 - (24-26)	Total/NA	Solid	8081A	154525
LCS 280-154525/2-A	Lab Control Sample	Total/NA	Solid	8081A	154525
MB 280-154525/1-A	Method Blank	Total/NA	Solid	8081A	154525

Analysis Batch: 154966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	8082	154525
280-37307-2 MS	SE-01 - (24-26)	Total/NA	Solid	8082	154525
280-37307-2 MSD	SE-01 - (24-26)	Total/NA	Solid	8082	154525
LCS 280-154525/3-A	Lab Control Sample	Total/NA	Solid	8082	154525
MB 280-154525/1-A	Method Blank	Total/NA	Solid	8082	154525

Metals

Prep Batch: 153532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	7470A	
LCS 280-153532/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-153532/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 153633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	3050B	
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	3050B	
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	3050B	
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-153633/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 153635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Dissolved	Water	3005A	
280-37307-4 MS	SE-01 - GW	Dissolved	Water	3005A	
280-37307-4 MSD	SE-01 - GW	Dissolved	Water	3005A	
LCS 280-153635/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-153635/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 153674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	7471A	
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	7471A	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
 Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Metals (Continued)

Prep Batch: 153674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	7471A	
LCS 280-153674/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-153674/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 153751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	3010A	
280-37307-4 MS	SE-01 - GW	Total/NA	Water	3010A	
280-37307-4 MSD	SE-01 - GW	Total/NA	Water	3010A	
LCS 280-153751/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 280-153751/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 153837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	7471A	153674
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	7471A	153674
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	7471A	153674
LCS 280-153674/2-A	Lab Control Sample	Total/NA	Solid	7471A	153674
MB 280-153674/1-A	Method Blank	Total/NA	Solid	7471A	153674

Analysis Batch: 154008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	6010B	153751
280-37307-4 MS	SE-01 - GW	Total/NA	Water	6010B	153751
280-37307-4 MSD	SE-01 - GW	Total/NA	Water	6010B	153751
LCS 280-153751/2-A	Lab Control Sample	Total/NA	Water	6010B	153751
MB 280-153751/1-A	Method Blank	Total/NA	Water	6010B	153751

Prep Batch: 154019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Dissolved	Water	7470A	
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 154037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	7470A	153532
LCS 280-153532/2-A	Lab Control Sample	Total/NA	Water	7470A	153532
MB 280-153532/1-A	Method Blank	Total/NA	Water	7470A	153532

Analysis Batch: 154235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	6010B	153633
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	6010B	153633
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	6010B	153633
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	6010B	153633
MB 280-153633/1-A	Method Blank	Total/NA	Solid	6010B	153633

Analysis Batch: 154241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Dissolved	Water	7470A	154019

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Metals (Continued)

Analysis Batch: 154241 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	154019
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	154019

Analysis Batch: 154331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	6010B	153633
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	6010B	153633
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	6010B	153633
LCS 280-153633/2-A	Lab Control Sample	Total/NA	Solid	6010B	153633
MB 280-153633/1-A	Method Blank	Total/NA	Solid	6010B	153633

Analysis Batch: 154339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Dissolved	Water	6010B	153635
280-37307-4 MS	SE-01 - GW	Dissolved	Water	6010B	153635
280-37307-4 MSD	SE-01 - GW	Dissolved	Water	6010B	153635
LCS 280-153635/2-A	Lab Control Sample	Total Recoverable	Water	6010B	153635
MB 280-153635/1-A	Method Blank	Total Recoverable	Water	6010B	153635

General Chemistry

Analysis Batch: 153758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-1	SE-01 - (0-2)	Total/NA	Solid	Moisture	
280-37307-2	SE-01 - (24-26)	Total/NA	Solid	Moisture	
280-37307-3	SE-01 - (34-36)	Total/NA	Solid	Moisture	

Prep Batch: 154288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	1664A	
LCS 280-154288/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 280-154288/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 280-154288/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 154310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	1664A	154288
LCS 280-154288/2-A	Lab Control Sample	Total/NA	Water	1664A	154288
LCSD 280-154288/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	154288
MB 280-154288/1-A	Method Blank	Total/NA	Water	1664A	154288

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Client Sample ID: SE-01 - (0-2)

Date Collected: 12/20/12 20:20

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-1

Matrix: Solid

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.108 g	5 mL	153850	12/26/12 16:00	LMH	TAL DEN
Total/NA	Analysis	8260B		1			153854	12/27/12 00:37	LMH	TAL DEN
Total/NA	Prep	3546			30.3 g	10000 uL	153611	12/24/12 11:15	SPF	TAL DEN
Total/NA	Analysis	8081A		5			154261	12/31/12 15:05	AMP	TAL DEN
Total/NA	Prep	8151A			51.5 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		5			154361	01/02/13 22:31	KJH	TAL DEN
Total/NA	Analysis	8082		1			154408	01/02/13 17:35	TDJ	TAL DEN
Total/NA	Prep	7471A			0.67 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:34	JM	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:22	HEB	TAL DEN
Total/NA	Analysis	6010B		1			154331	12/31/12 15:02	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Client Sample ID: SE-01 - (24-26)

Date Collected: 12/20/12 21:08

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-2

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.134 g	5 mL	153850	12/26/12 16:00	LMH	TAL DEN
Total/NA	Analysis	8260B		1			153854	12/27/12 01:00	LMH	TAL DEN
Total/NA	Prep	8151A			50.9 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		1			154361	01/02/13 23:38	KJH	TAL DEN
Total/NA	Prep	3546			31.8 g	10000 uL	154525	01/03/13 20:35	NC	TAL DEN
Total/NA	Analysis	8081A		1			154637	01/04/13 17:51	AMP	TAL DEN
Total/NA	Analysis	8082		1			154966	01/07/13 17:30	TDJ	TAL DEN
Total/NA	Prep	7471A			0.66 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:36	JM	TAL DEN
Total/NA	Prep	3050B			1.15 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:25	HEB	TAL DEN
Total/NA	Analysis	6010B		1			154331	12/31/12 15:04	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.416 g	5 mL	153919	12/27/12 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			153872	12/27/12 15:55	AD	TAL DEN
Total/NA	Prep	3546			31.5 g	10000 uL	153611	12/24/12 11:15	SPF	TAL DEN
Total/NA	Analysis	8081A		5			154261	12/31/12 16:15	AMP	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-2

Client Sample ID: SE-01 - (34-36)

Date Collected: 12/20/12 21:25

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-3

Matrix: Solid

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			52.7 g	10000 uL	153862	12/27/12 08:40	AA	TAL DEN
Total/NA	Analysis	8151A		1			154361	01/03/13 00:01	KJH	TAL DEN
Total/NA	Analysis	8082		1			154408	01/02/13 19:00	TDJ	TAL DEN
Total/NA	Prep	7471A			0.50 g	50 mL	153674	12/26/12 11:35	JM	TAL DEN
Total/NA	Analysis	7471A		1			153837	12/26/12 15:38	JM	TAL DEN
Total/NA	Prep	3050B			1.14 g	100 mL	153633	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:28	HEB	TAL DEN
Total/NA	Analysis	6010B		5			154331	12/31/12 15:07	HEB	TAL DEN
Total/NA	Analysis	Moisture		1			153758	12/26/12 10:50	AFB	TAL DEN

Client Sample ID: SE-01 - GW

Date Collected: 12/20/12 23:00

Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	153993	12/28/12 15:07	TW	TAL DEN
Total/NA	Prep	3520C			1055.3 mL	1000 uL	153760	12/26/12 12:25	BMS	TAL DEN
Total/NA	Analysis	8270C		1			154290	12/31/12 21:43	DCK	TAL DEN
Total/NA	Prep	3010A			50 mL	50 mL	153751	12/27/12 07:30	JA	TAL DEN
Total/NA	Analysis	6010B		1			154008	12/28/12 03:56	HEB	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	153532	12/27/12 12:00	JM	TAL DEN
Total/NA	Analysis	7470A		1			154037	12/27/12 18:22	JM	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	154019	12/28/12 11:15	JM	TAL DEN
Dissolved	Analysis	7470A		1			154241	12/28/12 15:26	JM	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	153635	12/28/12 12:00	RC	TAL DEN
Dissolved	Analysis	6010B		1			154339	12/31/12 20:36	HEB	TAL DEN
Total/NA	Prep	1664A			899 mL	1000 mL	154288	12/31/12 12:38	AFB	TAL DEN
Total/NA	Analysis	1664A		1			154310	12/31/12 15:42	AFB	TAL DEN

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



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Report for:

Donna Rydberg
TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

Regarding: Project: 280-37307-2
 EML ID: 1009407

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 01-02-2013

Technical Manager
Miguel Ines

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



EMLab P&K

3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626
(866) 465-6653 Fax (858) 569-5806 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-37307-2

Date of Sampling: 12-20-2012
Date of Receipt: 12-27-2012
Date of Report: 01-02-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 1
Total Samples Analysed: 1
Total Samples with Layer Asbestos Content > 1%: 0

Location: SE-01 - (0-2) (280-37307-1)

Lab ID-Version‡: 4511387-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Content:	< 1% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Good

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37307-2

Login Number: 37307

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37307-3
Client Project/Site: US 6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/16/2013 2:24:47 PM

Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for
Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Job ID: 280-37307-3

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc

Project: US 6 at I-25

Report Number: 280-37307-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received at TestAmerica Denver on December 21, 2012. The samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.7°C.

Per client request on January 10th, 2013. Sample SE-01 - GW (280-37307-4) was analyzed for Total Suspended Solids outside of the recommended holding time. No other analyses associated with the original chain of custody will be found in this report.

TOTAL SUSPENDED SOLIDS

Sample SE-01 - GW (280-37307-4) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 01/11/2013.

No difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Client Sample ID: SE-01 - GW

Lab Sample ID: 280-37307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	380	H	20	5.5	mg/L	1		SM 2540D	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



Sample Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37307-4	SE-01 - GW	Water	12/20/12 23:00	12/21/12 14:12

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

General Chemistry

Client Sample ID: SE-01 - GW
Date Collected: 12/20/12 23:00
Date Received: 12/21/12 14:12

Lab Sample ID: 280-37307-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	380	H	20	5.5	mg/L			01/11/13 16:05	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 11
- 12
- 13

QC Sample Results

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-155579/3

Matrix: Water

Analysis Batch: 155579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			01/11/13 16:05	1

Lab Sample ID: LCS 280-155579/1

Matrix: Water

Analysis Batch: 155579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	92.0		mg/L		92	86 - 114

Lab Sample ID: LCSD 280-155579/2

Matrix: Water

Analysis Batch: 155579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	94.0		mg/L		94	86 - 114	2	20

QC Association Summary

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

General Chemistry

Analysis Batch: 155579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37307-4	SE-01 - GW	Total/NA	Water	SM 2540D	
LCS 280-155579/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-155579/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 280-155579/3	Method Blank	Total/NA	Water	SM 2540D	

- 1
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Lab Chronicle

Client: RMC Consultants Inc
Project/Site: US 6 at I-25

TestAmerica Job ID: 280-37307-3

Client Sample ID: SE-01 - GW

Lab Sample ID: 280-37307-4

Date Collected: 12/20/12 23:00

Matrix: Water

Date Received: 12/21/12 14:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	50 mL	250 mL	155579	01/11/13 16:05	MW	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampler ID JM
 Temperature on Receipt 47.6
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124-280 (05/08)

Client: **RMC CONSULTANTS, INC** Project Manager: **CLAUDE RAO MURRAY** Date: **12/21/12** Chain of Custody Number: **170756**
 Address: **12295 W. 48th Ave.** Telephone Number (Area Code)/Fax Number: **(303) 980 4101** Lab Number: **8082** Page: **1** of **1**
 City: **Wheat Ridge** State: **CO** Zip Code: **80033** Site Contact: **JASON KAHLERT** Lab Contact: **DOINA RYABERG** Analysis: **Asbestos** more stages needed: **6010/770-770** 6010/770-770 6010/770-770 6010/770-770 6010/770-770 6010/770-770
 Project Name and Location (State): **US6 & I-25** Carrier/Waybill Number: **80033**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Soil	Impres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH	
SE-01 - (0-2)	12-20-12	2020			X	4							
SE-01 - (24-26)	12-20-12	2108			X	3							
SE-01 - (34-36)	12-20-12	2125			X	3							
SE-01 - GW	12-20-12	2300	X			3	1	2					

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STD**

1. Relinquished By: **Steph M. Thompson** Date: **12/21/12** Time: **1412**
 2. Relinquished By: **Steph M. Thompson** Date: **12/21/12** Time: **1412**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____



Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37307-3

Login Number: 37307

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37374-1
Client Project/Site: U.S.6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/22/2013 8:46:10 AM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-1

Job ID: 280-37374-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc.

Project: U.S.6 at I-25

Report Number: 280-37374-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Samples were received at TestAmerica Denver on December 26, 2012. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.1°C, 0.2°C and 2.0°C.

The sample requiring Gross A/B was subbed to the TestAmerica Richland laboratory at 2800 George Washington Way, Richland WA 99352 for analysis. The sample results will be found in this report. All other samples were logged under a separate job and will not be found in this report.

Analytical Data Package Prepared For

TestAmerica Denver

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 18 Pages

Report No.: 54261

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
46240		NE-02-GW(280-37374-8)	J2L310413-2	MXQ2A1AC	9MXQ2A10	3002045
		NE-02-GW(280-37374-8)	J2L310413-2	MXQ2A1AA	9MXQ2A10	3002047
		SW-01-GW(280-37374-4)	J2L310413-1	MXQ191AC	9MXQ1910	3002045
		SW-01-GW(280-37374-4)	J2L310413-1	MXQ191AA	9MXQ1910	3002047

Certificate of Analysis

January 15, 2013

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Attention: Donna Rydberg

Date Received by Lab	:	December 31, 2012
Sample Number/Matrix	:	Two (2) Water
SDG Number	:	46240
Project	:	RMC Consultants / US 6 at I-25
Project Number	:	280-37374-1

CASE NARRATIVE

I. Introduction

On December 31, 2012, two water samples were received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TestAmerica identification numbers as described on the cover page of the Analytical Data Package. The samples were assigned to Lot Number J2L310413.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Gross Beta by method RL-GPC-001

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gas Proportional Counting

Gross Alpha by method RL-GPC-001:

The achieved MDA for samples exceed the CRDL due to the reduced aliquot sizes based on weight screens. The samples were counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

Gross Beta by method RL-GPC-001:

The achieved MDA for samples exceed the CRDL due to the reduced aliquot sizes based on weight screens. The samples were counted for the longest time appropriate for the method. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Erika Jordan

 2013.01.18

14:33:21 -08'00'

Erika Jordan
Customer Service Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D6174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c - Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c the combined uncertainty.</i> The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqrt}((\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D) / [\text{sqrt}(\text{TPUs}^2 + \text{TPUd}^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 15-Jan-13

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 54261

SDG No: 46240

Batch	Client Id Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
3002045	RL-GPC-001								
	NE-02-GW(280-37374-8)								
	MXQ2A1AC	ALPHA	30.4 +/- 12.0		pCi/L	100%	12.3	3.0	
	NW-02-GW(280-37285-2) DUP								
	MXQTD1AD	ALPHA	138.0 +/- 42.0		pCi/L	100%	24.4	3.0	0.7
	SW-01-GW(280-37374-4)								
	MXQ191AC	ALPHA	89.8 +/- 30.0		pCi/L	100%	24.6	3.0	
3002047	RL-GPC-001								
	231892-122012(280-37267-1) DUP								
	MXQRX1AD	BETA	5.11 +/- 3.1	U	pCi/L	100%	5.26	4.0	0.3
	NE-02-GW(280-37374-8)								
	MXQ2A1AA	BETA	29.6 +/- 7.1		pCi/L	100%	8.99	4.0	
	SW-01-GW(280-37374-4)								
	MXQ191AA	BETA	96.8 +/- 17.0		pCi/L	100%	14.9	4.0	

No. of Results: 6

TestAmerica

rptSTL RchSaSum
mary2 V5.2.23
A2002

RER2 - Replicate Error Ratio = $(S-D)/[\sqrt{sq(TPU_s)+sq(TPU_d)}]$ as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdi, Total Uncert, CRDL, RDL or not identified by gamma scan software.

QC Results Summary
TestAmerica TARL
 Ordered by Method, Batch No, QC Type,.

Date: 15-Jan-13

Report No. : 54261

SDG No.: 46240

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
RL-GPC-001									
	3002045	BLANK QC,							
	MXQ7A1AA	ALPHA	0.570 +/- 0.44	U	pCi/L	100%			0.652
	3002045	LCS,							
	MXQ7A1AC	ALPHA	37.5 +/- 8.6		pCi/L	100%	92%	-0.1	0.754
	3002045	MATRIX SPIKE, SE-01-GW(280-37307-4)							
	MXQR91AD	ALPHA	311.0 +/- 82.0		pCi/L	100%	101%	0.0	11.3
RL-GPC-001									
	3002047	MATRIX SPIKE, 227284-122012(280-37267-2)							
	MXQR31AD	BETA	283.0 +/- 38.0		pCi/L	100%	98%	0.0	4.98
	3002047	BLANK QC,							
	MXQ7D1AA	BETA	1.09 +/- 1.0	U	pCi/L	100%			1.79
	3002047	LCS,							
	MXQ7D1AC	BETA	40.7 +/- 5.7		pCi/L	100%	100%	0.0	1.84
No. of Results: 6									

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V5.2.23 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or
 A2002 not identified by gamma scan software.

FORM I SAMPLE RESULTS

Date: 15-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J2L310413-2
 Client Sample ID: NE-02-GW(280-37374-8)

SDG: 46240
 Report No.: 54261
 COC No.: 280-165853.1

Collection Date: 12/26/2012 1:05:00 PM
 Received Date: 12/31/2012 9:50:00 AM
 Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Work Order: MXQ2A1AC Report DB ID: 9MXQ2A10												
Batch: 3002045	RL-GPC-001		9.9	12.0	12.3	pCi/L	100%	(2.5)	1/7/13 01:33 p		0.023	GPC23A
	ALPHA	30.4					3.0	(5.1)			L	
Work Order: MXQ2A1AA Report DB ID: 9MXQ2A10												
Batch: 3002047	RL-GPC-001		6.1	7.1	8.99	pCi/L	100%	(3.3)	1/7/13 04:55 p		0.0468	GPC26A
	BETA	29.6					4.0	(8.4)			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

TestAmerica
 rptSTL RchSample
 V5.2.23 A2002



FORM I

Date: 15-Jan-13

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: JZL310413-1
 Client Sample ID: SW-01-GW(280-37374-4)

SDG: 46240
 Report No.: 54261
 COC No.: 280-165853.1

Collection Date: 12/26/2012 9:45:00 AM
 Received Date: 12/31/2012 9:50:00 AM
 Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002045	RL-GPC-001											
ALPHA	89.8		22.0	30.0	24.6 pCi/L	11.1	100%	(3.7)	1/7/13 01:33 p		0.0138	GPC22D
Work Order: MXQ191AC Report DB ID: 9MXQ1910												
Batch: 3002047	RL-GPC-001											
BETA	96.8		12.0	17.0	14.9 pCi/L	7.17	100%	(6.5)	1/7/13 01:14 p		0.0279	GPC28D
Work Order: MXQ191AA Report DB ID: 9MXQ1910												
L												

No. of Results: 2 Comments:



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280423-1
 Client Sample ID: 231892-122012(280-37267-1) DUP
 SDG: 46235
 Report No.: 54261
 COC No.: 280-165322.1
 Collection Date: 12/20/2012 10:30:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotalCert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002047	RL-GPC-001								Orig Sa DB ID: 9MXQRX10			
BETA	5.11	U	3.1	3.1	5.26	pCi/L	100%	0.97	1/7/13 01:14 p		0.0751	GPC26B
	5.85		RER2 0.3			4.0	(3.3)				L	

No. of Results: 1 Comments:

RER2 - Replicate Error Ratio = (S-D)/[sqrt((TPUs)+sq(TPUd))] as defined by ICPI BOA.
 MDC(MDA)_Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL, or not identified by gamma scan software.



FORM II

Date: 15-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2L280427-1
 Client Sample ID: NW-02-GW(280-37285-2) DUP

SDG: 46237
 Report No.: 54261
 COC No.: 280-165358.1

Collection Date: 12/20/2012 11:55:00 AM
 Received Date: 12/26/2012 11:00:00 AM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3002045	RL-GPC-001								Orig Sa DB ID: 9MXQTD10			
ALPHA	138.0		27.0	42.0	24.4	pC/L	100%	(5.7)	1/7/13 01:33 p		0.0126	GPC22C
	159.0		RER2 0.7			3.0		(6.6)			L	

No. of Results: 1 Comments:

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICFT BOA.
 MDC(MDA), i.e - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.



FORM II

Date: 15-Jan-13

BLANK RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54261

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Defector
Batch: 3002045 RL-GPC-001 Work Order: MXQ7A1AA Report DB ID: MXQ7A1AB												
ALPHA	0.570	U	0.42	0.44	0.652	pCi/L	100%	0.87	1/7/13 01:33 p	0.1988	L	GPC23B
					0.287	3.0		(2.6)				
Batch: 3002047 RL-GPC-001 Work Order: MXQ7D1AA Report DB ID: MXQ7D1AB												
BETA	1.09	U	1.0	1.0	1.79	pCi/L	100%	0.61	1/7/13 04:55 p	0.1998	L	GPC26B
					0.861	4.0		(2.1)				

No. of Results: 2 Comments:



FORM II

Date: 15-Jan-13

LCS RESULTS

Lab Name: TestAmerica SDG: 46240
 Matrix: WATER Report No.: 54261

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 3002045 RL-GPC-001 Work Order: MXQ7A1AC Report DB ID: MXQ7A1CS													
ALPHA	37.5		2.1	8.6	0.754	pCi/L	100%	40.6	0.42	92%	1/7/13 01:33 p	0.2002	GPC23C
Rec Limits: 70 130 -0.1													
Batch: 3002047 RL-GPC-001 Work Order: MXQ7D1AC Report DB ID: MXQ7D1CS													
BETA	40.7		2.3	5.7	1.84	pCi/L	100%	40.8	1.6	100%	1/7/13 04:55 p	0.2007	GPC26C
Rec Limits: 70 130 0.0													

No. of Results: 2 Comments:

TestAmerica Bias -(Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica
 rptSTLRchLcs
 01/15/2013 10:23 A2002



FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46235 Matrix: WATER
 Lot-Sample No.: JZL280423-2, 227284-122012(280-37267-2) Report No.: 54261

Parameter	SpikeResult, Orig Rst	Count Qual Error (2 s)	Total Uncert(2 s)	MDC(MDA CRDL)	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002047	Work Order: MXQR31AD	9.4	38.0	4.98	MXQR31DW	100%	98.33%	288.0	17/13 01:14 p	0.078	RL-GPC-001
BETA	283.0			pCi/L				11.0		L	GPC26D
	3.71										

Number of Results: 1

Comments:

RER - Replicate Error Ratio = $(S-D)/[\sqrt{(sq(TPUs)+sq(TPUD))}]$ as defined by ICPT BOA
 Bias - $(Result/Expected)-1$ as defined by ANSI N13.30.



FORM II

Date: 15-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: 46236 Matrix: WATER
 Lot-Sample No.: J2L280426-1, SE-01-GW(280-37307-4) Report No.: 54261

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC(MDA)	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3002045	Work Order: MXQR91AD	Report DB ID: MXQR91DW	Orig Sa DB ID: 9MXQR910								
ALPHA	311.0	23.0	82.0	11.3	pCi/L	100%	101.47%	306.0	1/7/13 01:33 p	0.0265	RL-GPC-001
	22.2							3.2		L	GPC22A

Number of Results: 1

Comments:


TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA
 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 OptSTLRchMs
 2015.2.23 A2002



TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 2800 George Washington Way, City: Richland State, Zip: WA, 99352 Phone: 509-375-3131 (Tel) 509-375-5590 (Fax) Email: Project Name: U.S.6 at J-25 Site:		Lab Pmt Rycberg, Donna R E-Mail: donna.rycberg@testamericainc.com	Carrier Tracking No(s): COC No: 280-165853.1 Page: Page 1 of 1 Job #: 280-37374-1
Due Date Requested: 12/21/2013 TAT Requested (days):	Analysis Requested	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsHClO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Date 12/26/12 Sample Time 09:45 Mountain 13:05 Mountain	Sample Type (C=comp, G=grab) Matrix (V=water, S=solid, O=other, BT=Blood, A=Air)	SUBCONTRACT/ Gross Alpha (Method 90C.0) SUBCONTRACT/ Gross Beta (Method 900.0)	Special Instructions/Note:
SW-01-GW (280-37374-4) MXQ19 NE-02-GW (280-37374-8) MXQ2A SAL310413 SDU-46240 Due 1-28-13 	Water Water	X X	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: Relinquished by: <i>Donna Rycberg</i> Relinquished by: Relinquished by:			
Date/Time: 12/21/12 1600 Date/Time:	Date/Time: 12-31-12/0950 Date/Time:	Received by: <i>Marie Box</i> Received by:	Company: TALK Company:
Date/Time:	Date/Time:	Received by:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cooler Temperature: <input type="checkbox"/> Card Other Remarks:			



Sample Check-in List

Date/Time Received: 12-31-12 / 0950 GM Screen Result: (Airlock) .06 Initials BS
(Sample Receiving) .06 Initials BS

Client: STLD SDG #: 46240 NA SAF #: _____ NA

Lot Number: J2L310413

Chain of Custody # 280-165853.1

Shipping Container ID: _____ NA

Samples received inside shipping container/cooler/box Yes Continue with 1 through 4. Initial appropriate response.
No Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes No No Custody Seal
- 2. Custody Seals dated and signed? Yes No No Custody Seal
- 3. Cooler temperature: _____ °C NA
- 4. Vermiculite/packing materials is NA Wet Dry

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes No
- 6. Number of samples received (Each sample may contain multiple bottles): 2
- 7. Containers received: 2 x LP

8. Sample holding times exceeded? NA Yes No

9. Samples have:
 tape hazard labels
 custody seals appropriate sample labels

10. Matrix:
 A (FLT, Wipe, Solid, Soil) I (Water)
 S (Air, Niosh 7400) T (Biological, Ni-63)

11. Samples:
 are in good condition _____ are leaking
 are broken _____ have air bubbles (Only for samples requiring no head space)
 Other _____

12. Sample pH appropriate for analysis requested Yes No NA
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

RPL ID # of preservative used: N/A

13. Were any anomalies identified in sample receipt? Yes No

14. Description of anomalies (include sample numbers): NA

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37374-1

Login Number: 37374

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Sampler ID JK
 Temperature on Receipt 21.0
 Drinking Water? Yes No

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4124-280 (0508)

Client: **RMC Consultants, Inc** Project Manager: **Claude Murray** Date: **12/26/12** Chain of Custody Number: **170750**
 Address: **12295 W 48th Ave Unit A** Telephone Number (Area Code)/Fax Number: **303.980.4101** Lab Number: **1** of **1**
 City: **Wheat Ridge** State: **CO** Zip Code: **80033** Site Contact: **Jason Kahleff** Lab Contact: **Donna Rydberg**
 Project Name and Location (State): **US6 at F-25** Carrier/Waybill Number: **Hand Deliver**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt					
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH						
SW-01-0	12/26/12	0803			X			4										
SW-01-4		0812			X			3										
SW-01-11		0819			X			3										
SW-01-GW		0945		X				5	2	3								
NE-02-0		1114		X				4										
NE-02-4		1126		X				3										
NE-02-9		1132		X				3										
NE-02-GW		1305		X				5	2	3								

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STD**

1. Relinquished By: **Steve Muel** Date: **12/26/12** Time: **1705**
 2. Relinquished By: **Hand Deliver** Date: **12-26-12** Time: **1705**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-37374-2
Client Project/Site: U.S.6 at I-25

For:
RMC Consultants Inc
12295 W 48th Avenue
Unit A
Wheat Ridge, Colorado 80033

Attn: Jason L Kahlert



Authorized for release by:
1/18/2013 11:52:53 AM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Job ID: 280-37374-2

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: RMC Consultants Inc.

Project: U.S.6 at I-25

Report Number: 280-37374-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Samples were received at TestAmerica Denver on December 26, 2012. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.1°C, 0.2°C and 2.0°C.

The sample requiring Gross A/B was subbed to the TestAmerica Richland laboratory at 2800 George Washington Way, Richland WA 99352 for analysis. This sample was logged and will be reported under a separate job (280-37374-1). Data will not be found in this report.

The report for the Asbestos sample will be found at the back of this report.

VOLATILE ORGANIC COMPOUNDS (GC-MS) - SOLID

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

Several spike and surrogate recoveries were outside control limits in the MS and MSD associated with batch 153872. This MS/MSD batch was performed on a sample from another client and/or job. The associated LCS was in control and provides evidence that operating procedures were in control.

Cyclohexane and Methylcyclohexane were detected in method blank MB 280-154297/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged.

Several spike recoveries were outside control limits in the MS and MSD associated with batch 154301. The associated LCS was in control and provides evidence that operating procedures were in control.

Bromoform was detected in method blank MB 280-154326/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged.

Several spike recoveries were outside control limits in the MS and MSD associated with batch 154355. The associated LCS was in control and provides evidence that operating procedures were in control.

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Job ID: 280-37374-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

The MS and MSD spike recoveries for 2-Hexanone failed the recovery criteria high in batch 154317. The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C.

Matrix spike samples were not requested and they could not be performed due to insufficient sample volume. The acceptable LCS and LCSD provide evidence of batch precision and accuracy.

No difficulties were encountered during the SVOC analyses.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES - SOLIDS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. Samples SW-01-0 (280-37374-1)[5X], NE-02-0 (280-37374-5)[200X], NE-02-4 (280-37374-6)[10X] and NE-02-9 (280-37374-7)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. The surrogate recoveries for sample NE-02-0 (280-37374-5) were diluted below reportable limits.

Chlordane (n.o.s.) was detected in method blank MB 280-153994/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several spike recoveries and RPD values were outside control limits in the MS and MSD associated with batch 280-154637. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS) - SOLIDS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082.

The percent recovery for surrogate DCB Decachlorobiphenyl failed the surrogate recovery criteria low in sample SW-01-0 (280-37374-1). The percent recovery for surrogate Tetrachloro-m-xylene was in control. There is chromatographic evidence of matrix interference. Therefore, re-extraction and/or re-analysis was not performed.

Sample SW-01-0 (280-37374-1) contained more than one Aroclor component. Results are estimated due to shared peaks.

No other difficulties were encountered during the PCBs analyses.

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Job ID: 280-37374-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

All other quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES - SOLIDS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A.

Samples SW-01-0 (280-37374-1) and NE-02-0 (280-37374-5) required a 5X dilution prior to analysis due to sample extracts being dark yellow in color. The dilutions were performed to protect the integrity of the instrument. The reporting limits have been adjusted accordingly.

Several spike recoveries were outside control limits in the MS and MSD associated with batch 280-154642 and performed on sample SW-01-0 (280-37374-1). The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the herbicides analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/28/2012 and analyzed on 12/31/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B.

Barium was detected in method blank MB 280-153929/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated samples reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for total metals in accordance with EPA SW-846 Method 6010B.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A.

No difficulties were encountered during the dissolved mercury analyses.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Job ID: 280-37374-2 (Continued)

Laboratory: TestAmerica Denver (Continued)

TOTAL MERCURY - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A.

The MS and MSD spike recoveries for Mercury failed the recovery criteria high in batch 154241. The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY - SOLIDS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A.

The MS spike recovery and the RPD value for Mercury failed the recovery criteria in batch 154492. The associated LCS was in control and provides evidence that operating procedures were in control. No further action was required.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

OIL AND GREASE (HEM) - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for oil and grease (HEM) in accordance with EPA Method 1664A.

No difficulties were encountered during the oil and grease analyses.

All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for total suspended solids in accordance with SM20 2540D. Samples were analyzed at a dilution due to high TSS results. The reporting limits were raised accordingly.

No difficulties were encountered during the TSS analyses.

All quality control parameters were within the acceptance limits.

PH - WATERS

Samples SW-01-GW (280-37374-4) and NE-02-GW (280-37374-8) were analyzed for pH in accordance with EPA SW-846 9040C.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SW-01-0 (280-37374-1), SW-01-4 (280-37374-2), SW-01-11 (280-37374-3), NE-02-0 (280-37374-5), NE-02-4 (280-37374-6) and NE-02-9 (280-37374-7) were analyzed for percent solids in accordance with EPA SW846 3550C.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	RPD of the MS and MSD exceeds the control limits
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio

TestAmerica Denver

Definitions/Glossary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Detection Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: SW-01-0

Lab Sample ID: 280-37374-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.56	J B	6.5	0.52	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	1.3	J B	6.5	0.54	ug/Kg	1	☼	8260B	Total/NA
4,4'-DDE	1.5	J p	8.7	1.2	ug/Kg	5	☼	8081A	Total/NA
4,4'-DDT	12	p	8.7	3.0	ug/Kg	5	☼	8081A	Total/NA
Chlordane (n.o.s.)	2.8	J B p	8.7	1.1	ug/Kg	5	☼	8081A	Total/NA
Dieldrin	5.7	J	8.7	1.1	ug/Kg	5	☼	8081A	Total/NA
PCB-1254	61		34	5.7	ug/Kg	1	☼	8082	Total/NA
PCB-1260	64		34	2.7	ug/Kg	1	☼	8082	Total/NA
Polychlorinated biphenyls, Total	120		34	2.7	ug/Kg	1	☼	8082	Total/NA
Arsenic	3500		1900	620	ug/Kg	1	☼	6010B	Total/NA
Barium	160000		940	71	ug/Kg	1	☼	6010B	Total/NA
Cadmium	170	J	470	38	ug/Kg	1	☼	6010B	Total/NA
Chromium	10000		1400	54	ug/Kg	1	☼	6010B	Total/NA
Lead	35000		750	250	ug/Kg	1	☼	6010B	Total/NA
Selenium	880	J	1200	810	ug/Kg	1	☼	6010B	Total/NA
Mercury	19		17	5.5	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: SW-01-4

Lab Sample ID: 280-37374-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.0		1.8	0.26	ug/Kg	1	☼	8081A	Total/NA
4,4'-DDT	2.0	p	1.8	0.64	ug/Kg	1	☼	8081A	Total/NA
Chlordane (n.o.s.)	1.5	J B	1.8	0.23	ug/Kg	1	☼	8081A	Total/NA
Dieldrin	0.43	J	1.8	0.23	ug/Kg	1	☼	8081A	Total/NA
Heptachlor epoxide	0.68	J	1.8	0.46	ug/Kg	1	☼	8081A	Total/NA
Arsenic	6000		2200	720	ug/Kg	1	☼	6010B	Total/NA
Barium	110000		1100	83	ug/Kg	1	☼	6010B	Total/NA
Cadmium	76	J	540	45	ug/Kg	1	☼	6010B	Total/NA
Chromium	8400		1600	63	ug/Kg	1	☼	6010B	Total/NA
Lead	37000		870	290	ug/Kg	1	☼	6010B	Total/NA
Mercury	20		20	6.6	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: SW-01-11

Lab Sample ID: 280-37374-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	800	J	1800	590	ug/Kg	1	☼	6010B	Total/NA
Barium	19000		890	68	ug/Kg	1	☼	6010B	Total/NA
Chromium	1100	J	1300	52	ug/Kg	1	☼	6010B	Total/NA
Lead	1500		710	240	ug/Kg	1	☼	6010B	Total/NA

Client Sample ID: SW-01-GW

Lab Sample ID: 280-37374-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.30	J	1.0	0.16	ug/L	1		8260B	Total/NA
Arsenic	7.2	J	15	4.4	ug/L	1		6010B	Total/NA
Barium	430		10	0.58	ug/L	1		6010B	Total/NA
Cadmium	0.68	J	5.0	0.45	ug/L	1		6010B	Total/NA
Chromium	28		10	0.66	ug/L	1		6010B	Total/NA
Lead	21		9.0	2.6	ug/L	1		6010B	Total/NA
Selenium	12	J	15	4.9	ug/L	1		6010B	Total/NA
Barium	170	B	10	0.58	ug/L	1		6010B	Dissolved
Chromium	1.3	J	10	0.66	ug/L	1		6010B	Dissolved

TestAmerica Denver

Detection Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: SW-01-GW (Continued)

Lab Sample ID: 280-37374-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	11	J	15	4.9	ug/L	1		6010B	Dissolved
Total Suspended Solids	1400		40	11	mg/L	1		SM 2540D	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH adj. to 25 deg C	7.05	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.0	HF	1.00	1.00	Degrees C	1		9040C	Total/NA

Client Sample ID: NE-02-0

Lab Sample ID: 280-37374-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.33	J B	4.9	0.23	ug/Kg	1	*	8260B	Total/NA
Methylene Chloride	2.0	J	4.9	1.6	ug/Kg	1	*	8260B	Total/NA
4,4'-DDD	140	J	340	110	ug/Kg	200	*	8081A	Total/NA
4,4'-DDE	1900		340	48	ug/Kg	200	*	8081A	Total/NA
4,4'-DDT	2700		340	120	ug/Kg	200	*	8081A	Total/NA
Arsenic	6000		2100	710	ug/Kg	1	*	6010B	Total/NA
Barium	330000		1100	81	ug/Kg	1	*	6010B	Total/NA
Cadmium	520	J	540	44	ug/Kg	1	*	6010B	Total/NA
Chromium	10000		1600	62	ug/Kg	1	*	6010B	Total/NA
Lead	170000		860	290	ug/Kg	1	*	6010B	Total/NA
Selenium	1300	J	1400	920	ug/Kg	1	*	6010B	Total/NA
Silver	400	J	1100	170	ug/Kg	1	*	6010B	Total/NA
Mercury	580		18	6.0	ug/Kg	1	*	7471A	Total/NA

Client Sample ID: NE-02-4

Lab Sample ID: 280-37374-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.4	J	22	5.9	ug/Kg	1	*	8260B	Total/NA
Bromoform	0.36	J B	5.5	0.25	ug/Kg	1	*	8260B	Total/NA
4,4'-DDE	58		18	2.5	ug/Kg	10	*	8081A	Total/NA
4,4'-DDT	98		18	6.2	ug/Kg	10	*	8081A	Total/NA
Arsenic	3900		2100	700	ug/Kg	1	*	6010B	Total/NA
Barium	100000		1100	81	ug/Kg	1	*	6010B	Total/NA
Cadmium	120	J	530	43	ug/Kg	1	*	6010B	Total/NA
Chromium	9000		1600	61	ug/Kg	1	*	6010B	Total/NA
Lead	28000		850	290	ug/Kg	1	*	6010B	Total/NA
Mercury	14	J	20	6.4	ug/Kg	1	*	7471A	Total/NA

Client Sample ID: NE-02-9

Lab Sample ID: 280-37374-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	19	5.0	ug/Kg	1	*	8260B	Total/NA
Bromoform	0.29	J B	4.7	0.22	ug/Kg	1	*	8260B	Total/NA
Methylene Chloride	1.6	J	4.7	1.5	ug/Kg	1	*	8260B	Total/NA
Tetrachloroethene	0.90	J	4.7	0.55	ug/Kg	1	*	8260B	Total/NA
4,4'-DDE	18		8.6	1.2	ug/Kg	5	*	8081A	Total/NA
4,4'-DDT	40		8.6	3.0	ug/Kg	5	*	8081A	Total/NA
Arsenic	2100		2000	660	ug/Kg	1	*	6010B	Total/NA
Barium	34000		1000	76	ug/Kg	1	*	6010B	Total/NA
Cadmium	48	J	500	41	ug/Kg	1	*	6010B	Total/NA
Chromium	3300		1500	58	ug/Kg	1	*	6010B	Total/NA
Lead	8100		800	270	ug/Kg	1	*	6010B	Total/NA
Mercury	9.0	J	17	5.6	ug/Kg	1	*	7471A	Total/NA

TestAmerica Denver

Detection Summary

Client: RMC Consultants Inc
 Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: NE-02-GW

Lab Sample ID: 280-37374-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	1.9	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.29	J	5.0	0.25	ug/L	1		8260B	Total/NA
Barium	310		10	0.58	ug/L	1		6010B	Total/NA
Cadmium	0.58	J	5.0	0.45	ug/L	1		6010B	Total/NA
Chromium	38		10	0.66	ug/L	1		6010B	Total/NA
Lead	11		9.0	2.6	ug/L	1		6010B	Total/NA
Selenium	9.7	J	15	4.9	ug/L	1		6010B	Total/NA
Barium	150	B	10	0.58	ug/L	1		6010B	Dissolved
Cadmium	0.49	J	5.0	0.45	ug/L	1		6010B	Dissolved
Chromium	0.85	J	10	0.66	ug/L	1		6010B	Dissolved
Selenium	9.6	J	15	4.9	ug/L	1		6010B	Dissolved
Total Suspended Solids	1000		40	11	mg/L	1		SM 2540D	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH adj. to 25 deg C	7.24	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.0	HF	1.00	1.00	Degrees C	1		9040C	Total/NA

Method Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8081A	Organochlorine Pesticides (GC)	SW846	TAL DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
8151A	Herbicides (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
7471A	Mercury (CVAA)	SW846	TAL DEN
1664A	Oil & Grease (HEM)	EPA	TAL DEN
9040C	pH	SW846	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN
Asbestos (PLM)	General Sub Contract Method	NONE	EMLab-OC

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37374-1	SW-01-0	Solid	12/26/12 08:03	12/26/12 17:05
280-37374-2	SW-01-4	Solid	12/26/12 08:12	12/26/12 17:05
280-37374-3	SW-01-11	Solid	12/26/12 08:19	12/26/12 17:05
280-37374-4	SW-01-GW	Water	12/26/12 09:45	12/26/12 17:05
280-37374-5	NE-02-0	Solid	12/26/12 11:14	12/26/12 17:05
280-37374-6	NE-02-4	Solid	12/26/12 11:26	12/26/12 17:05
280-37374-7	NE-02-9	Solid	12/26/12 11:32	12/26/12 17:05
280-37374-8	NE-02-GW	Water	12/26/12 13:05	12/26/12 17:05



Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		26	6.9	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
2-Butanone (MEK)	ND		26	2.4	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Benzene	ND		6.5	0.61	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chlorobenzene	ND		6.5	0.70	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Carbon disulfide	ND		6.5	0.54	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Carbon tetrachloride	ND		6.5	0.81	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Cyclohexane	0.56	J B	6.5	0.52	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2-Dibromo-3-Chloropropane	ND		13	0.77	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Bromomethane	ND		13	0.65	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Bromoform	ND		6.5	0.30	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chloroethane	ND		13	1.1	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chloroform	ND		13	0.37	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chlorobromomethane	ND		6.5	0.39	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Dichlorobromomethane	ND		6.5	0.28	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chlorodibromomethane	ND		6.5	0.74	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Isopropylbenzene	ND		6.5	0.76	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
2-Hexanone	ND		26	6.3	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Chloromethane	ND		13	0.99	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Dichlorodifluoromethane	ND		13	0.67	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
trans-1,2-Dichloroethene	ND		3.2	0.50	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
trans-1,3-Dichloropropene	ND		6.5	0.86	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Methylene Chloride	ND		6.5	2.1	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Methyl acetate	ND		13	3.5	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Methyl tert-butyl ether	ND		26	0.44	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
4-Methyl-2-pentanone (MIBK)	ND		26	5.6	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Methylcyclohexane	1.3	J B	6.5	0.54	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Styrene	ND		6.5	0.81	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1,2,2-Tetrachloroethane	ND		6.5	0.79	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2,3-Trichlorobenzene	ND		6.5	0.97	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2,4-Trichlorobenzene	ND		6.5	0.94	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Toluene	ND		6.5	0.89	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1,1-Trichloroethane	ND		6.5	0.67	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1,2-Trichloroethane	ND		6.5	1.1	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Trichloroethene	ND		6.5	0.30	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1,2-Trichlorotrifluoroethane	ND		26	0.58	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Vinyl chloride	ND		6.5	1.7	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
m-Xylene & p-Xylene	ND		3.2	1.3	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
o-Xylene	ND		3.2	0.79	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
Tetrachloroethene	ND		6.5	0.76	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2-Dichlorobenzene	ND		6.5	0.58	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,3-Dichlorobenzene	ND		6.5	0.62	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,4-Dichlorobenzene	ND		6.5	1.0	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
cis-1,2-Dichloroethene	ND		3.2	0.72	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
cis-1,3-Dichloropropene	ND		6.5	1.7	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1-Dichloroethane	ND		6.5	0.27	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,1-Dichloroethene	ND		6.5	0.76	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2-Dichloroethane	ND		6.5	0.90	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,2-Dichloropropane	ND		6.5	0.71	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1
1,4-Dioxane	ND		650	72	ug/Kg	*	12/31/12 06:00	12/31/12 18:05	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.5	0.86	ug/Kg	☼	12/31/12 06:00	12/31/12 18:05	1
1,2-Dibromoethane	ND		6.5	0.67	ug/Kg	☼	12/31/12 06:00	12/31/12 18:05	1
Trichlorofluoromethane	ND		13	1.3	ug/Kg	☼	12/31/12 06:00	12/31/12 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 140				12/31/12 06:00	12/31/12 18:05	1
Toluene-d8 (Surr)	105		80 - 126				12/31/12 06:00	12/31/12 18:05	1
4-Bromofluorobenzene (Surr)	98		76 - 127				12/31/12 06:00	12/31/12 18:05	1
Dibromofluoromethane (Surr)	94		75 - 121				12/31/12 06:00	12/31/12 18:05	1

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		27	7.2	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
2-Butanone (MEK)	ND		27	2.4	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Benzene	ND		6.7	0.63	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chlorobenzene	ND		6.7	0.72	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Carbon disulfide	ND		6.7	0.56	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Carbon tetrachloride	ND		6.7	0.84	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Cyclohexane	ND		6.7	0.53	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2-Dibromo-3-Chloropropane	ND		13	0.80	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Bromomethane	ND		13	0.67	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Bromoform	ND		6.7	0.31	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chloroethane	ND		13	1.2	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chloroform	ND		13	0.39	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chlorobromomethane	ND		6.7	0.40	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Dichlorobromomethane	ND		6.7	0.29	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chlorodibromomethane	ND		6.7	0.76	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Isopropylbenzene	ND		6.7	0.79	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
2-Hexanone	ND		27	6.5	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Chloromethane	ND		13	1.0	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Dichlorodifluoromethane	ND		13	0.69	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
trans-1,2-Dichloroethene	ND		3.3	0.52	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
trans-1,3-Dichloropropene	ND		6.7	0.89	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Methylene Chloride	ND		6.7	2.1	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Methyl acetate	ND		13	3.7	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Methyl tert-butyl ether	ND		27	0.45	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		27	5.8	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Methylcyclohexane	ND		6.7	0.56	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Styrene	ND		6.7	0.84	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1,2,2-Tetrachloroethane	ND		6.7	0.81	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2,3-Trichlorobenzene	ND		6.7	1.0	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2,4-Trichlorobenzene	ND		6.7	0.97	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Toluene	ND		6.7	0.92	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1,1-Trichloroethane	ND		6.7	0.69	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1,2-Trichloroethane	ND		6.7	1.2	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Trichloroethene	ND		6.7	0.31	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1,2-Trichlorotrifluoroethane	ND		27	0.60	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Vinyl chloride	ND		6.7	1.8	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		3.3	1.4	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
o-Xylene	ND		3.3	0.81	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Tetrachloroethene	ND		6.7	0.79	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2-Dichlorobenzene	ND		6.7	0.60	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,3-Dichlorobenzene	ND		6.7	0.64	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,4-Dichlorobenzene	ND		6.7	1.0	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
cis-1,2-Dichloroethene	ND		3.3	0.75	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
cis-1,3-Dichloropropene	ND		6.7	1.7	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1-Dichloroethane	ND		6.7	0.28	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,1-Dichloroethene	ND		6.7	0.79	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2-Dichloroethane	ND		6.7	0.93	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2-Dichloropropane	ND		6.7	0.73	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,4-Dioxane	ND		670	75	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Ethylbenzene	ND		6.7	0.89	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
1,2-Dibromoethane	ND		6.7	0.69	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1
Trichlorofluoromethane	ND		13	1.4	ug/Kg	☼	12/27/12 06:00	12/27/12 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 140	12/27/12 06:00	12/27/12 18:28	1
Toluene-d8 (Surr)	110		80 - 126	12/27/12 06:00	12/27/12 18:28	1
4-Bromofluorobenzene (Surr)	108		76 - 127	12/27/12 06:00	12/27/12 18:28	1
Dibromofluoromethane (Surr)	91		75 - 121	12/27/12 06:00	12/27/12 18:28	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		19	5.0	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
2-Butanone (MEK)	ND		19	1.7	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Benzene	ND		4.7	0.44	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chlorobenzene	ND		4.7	0.50	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Carbon disulfide	ND		4.7	0.39	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Carbon tetrachloride	ND		4.7	0.59	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Cyclohexane	ND		4.7	0.37	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2-Dibromo-3-Chloropropane	ND		9.3	0.56	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Bromomethane	ND		9.3	0.47	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Bromoform	ND		4.7	0.21	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chloroethane	ND		9.3	0.83	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chloroform	ND		9.3	0.27	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chlorobromomethane	ND		4.7	0.28	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Dichlorobromomethane	ND		4.7	0.21	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chlorodibromomethane	ND		4.7	0.53	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Isopropylbenzene	ND		4.7	0.55	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
2-Hexanone	ND		19	4.6	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Chloromethane	ND		9.3	0.72	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Dichlorodifluoromethane	ND		9.3	0.49	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
trans-1,2-Dichloroethene	ND		2.3	0.36	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
trans-1,3-Dichloropropene	ND		4.7	0.63	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Methylene Chloride	ND		4.7	1.5	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Methyl acetate	ND		9.3	2.6	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		19	0.32	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		19	4.1	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Methylcyclohexane	ND		4.7	0.39	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Styrene	ND		4.7	0.59	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.57	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2,3-Trichlorobenzene	ND		4.7	0.70	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2,4-Trichlorobenzene	ND		4.7	0.68	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Toluene	ND		4.7	0.64	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1,1-Trichloroethane	ND		4.7	0.49	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1,2-Trichloroethane	ND		4.7	0.82	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Trichloroethene	ND		4.7	0.21	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.42	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Vinyl chloride	ND		4.7	1.3	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
m-Xylene & p-Xylene	ND		2.3	0.97	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
o-Xylene	ND		2.3	0.57	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Tetrachloroethene	ND		4.7	0.55	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2-Dichlorobenzene	ND		4.7	0.42	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,3-Dichlorobenzene	ND		4.7	0.45	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,4-Dichlorobenzene	ND		4.7	0.73	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
cis-1,2-Dichloroethene	ND		2.3	0.52	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
cis-1,3-Dichloropropene	ND		4.7	1.2	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1-Dichloroethane	ND		4.7	0.20	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,1-Dichloroethene	ND		4.7	0.55	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2-Dichloroethane	ND		4.7	0.65	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2-Dichloropropane	ND		4.7	0.51	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,4-Dioxane	ND		470	52	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Ethylbenzene	ND		4.7	0.63	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
1,2-Dibromoethane	ND		4.7	0.49	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Trichlorofluoromethane	ND		9.3	0.97	ug/Kg	☼	12/27/12 06:00	12/27/12 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		58 - 140				12/27/12 06:00	12/27/12 18:47	1
Toluene-d8 (Surr)	110		80 - 126				12/27/12 06:00	12/27/12 18:47	1
4-Bromofluorobenzene (Surr)	107		76 - 127				12/27/12 06:00	12/27/12 18:47	1
Dibromofluoromethane (Surr)	91		75 - 121				12/27/12 06:00	12/27/12 18:47	1

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			01/02/13 13:04	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			01/02/13 13:04	1
Benzene	ND		1.0	0.16	ug/L			01/02/13 13:04	1
Chlorobenzene	ND		1.0	0.17	ug/L			01/02/13 13:04	1
Carbon disulfide	ND		2.0	0.45	ug/L			01/02/13 13:04	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/02/13 13:04	1
Cyclohexane	ND		2.0	0.28	ug/L			01/02/13 13:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			01/02/13 13:04	1
Bromomethane	ND		2.0	0.21	ug/L			01/02/13 13:04	1
Bromoform	ND		1.0	0.19	ug/L			01/02/13 13:04	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0	0.41	ug/L			01/02/13 13:04	1
Chloroform	0.30	J	1.0	0.16	ug/L			01/02/13 13:04	1
Chlorobromomethane	ND		1.0	0.10	ug/L			01/02/13 13:04	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			01/02/13 13:04	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			01/02/13 13:04	1
Isopropylbenzene	ND		1.0	0.19	ug/L			01/02/13 13:04	1
2-Hexanone	ND		5.0	1.7	ug/L			01/02/13 13:04	1
Chloromethane	ND		2.0	0.30	ug/L			01/02/13 13:04	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			01/02/13 13:04	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 13:04	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			01/02/13 13:04	1
Methylene Chloride	ND		2.0	0.32	ug/L			01/02/13 13:04	1
Methyl acetate	ND		5.0	1.6	ug/L			01/02/13 13:04	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			01/02/13 13:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			01/02/13 13:04	1
Methylcyclohexane	ND		1.0	0.36	ug/L			01/02/13 13:04	1
Styrene	ND		1.0	0.17	ug/L			01/02/13 13:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/02/13 13:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 13:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 13:04	1
Toluene	ND		1.0	0.17	ug/L			01/02/13 13:04	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			01/02/13 13:04	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			01/02/13 13:04	1
Trichloroethene	ND		1.0	0.16	ug/L			01/02/13 13:04	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			01/02/13 13:04	1
Vinyl chloride	ND		1.0	0.10	ug/L			01/02/13 13:04	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			01/02/13 13:04	1
o-Xylene	ND		1.0	0.19	ug/L			01/02/13 13:04	1
Tetrachloroethene	ND		1.0	0.20	ug/L			01/02/13 13:04	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/02/13 13:04	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			01/02/13 13:04	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			01/02/13 13:04	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 13:04	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			01/02/13 13:04	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			01/02/13 13:04	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			01/02/13 13:04	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			01/02/13 13:04	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			01/02/13 13:04	1
1,4-Dioxane	ND		200	57	ug/L			01/02/13 13:04	1
Ethylbenzene	ND		1.0	0.16	ug/L			01/02/13 13:04	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			01/02/13 13:04	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			01/02/13 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 127					01/02/13 13:04	1
Toluene-d8 (Surr)	97		80 - 125					01/02/13 13:04	1
4-Bromofluorobenzene (Surr)	100		78 - 120					01/02/13 13:04	1
Dibromofluoromethane (Surr)	84		77 - 120					01/02/13 13:04	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.3	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Benzene	ND		4.9	0.46	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chlorobenzene	ND		4.9	0.53	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Carbon disulfide	ND		4.9	0.41	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Carbon tetrachloride	ND		4.9	0.62	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Cyclohexane	ND		4.9	0.39	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2-Dibromo-3-Chloropropane	ND		9.8	0.59	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Bromomethane	ND		9.8	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Bromoform	0.33	J B	4.9	0.23	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chloroethane	ND		9.8	0.88	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chloroform	ND		9.8	0.29	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chlorobromomethane	ND		4.9	0.30	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Dichlorobromomethane	ND		4.9	0.22	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chlorodibromomethane	ND		4.9	0.56	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Isopropylbenzene	ND		4.9	0.58	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
2-Hexanone	ND		20	4.8	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Chloromethane	ND		9.8	0.76	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Dichlorodifluoromethane	ND		9.8	0.51	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
trans-1,2-Dichloroethene	ND		2.5	0.38	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
trans-1,3-Dichloropropene	ND		4.9	0.66	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Methylene Chloride	2.0	J	4.9	1.6	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Methyl acetate	ND		9.8	2.7	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Methyl tert-butyl ether	ND		20	0.33	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.3	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Methylcyclohexane	ND		4.9	0.41	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Styrene	ND		4.9	0.62	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.60	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2,3-Trichlorobenzene	ND		4.9	0.74	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2,4-Trichlorobenzene	ND		4.9	0.72	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Toluene	ND		4.9	0.68	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1,1-Trichloroethane	ND		4.9	0.51	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1,2-Trichloroethane	ND		4.9	0.87	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Trichloroethene	ND		4.9	0.23	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.44	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Vinyl chloride	ND		4.9	1.3	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
o-Xylene	ND		2.5	0.60	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Tetrachloroethene	ND		4.9	0.58	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2-Dichlorobenzene	ND		4.9	0.44	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,3-Dichlorobenzene	ND		4.9	0.47	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,4-Dichlorobenzene	ND		4.9	0.77	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
cis-1,2-Dichloroethene	ND		2.5	0.55	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
cis-1,3-Dichloropropene	ND		4.9	1.3	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1-Dichloroethane	ND		4.9	0.21	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,1-Dichloroethene	ND		4.9	0.58	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2-Dichloroethane	ND		4.9	0.69	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2-Dichloropropane	ND		4.9	0.54	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,4-Dioxane	ND		490	55	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.9	0.66	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
1,2-Dibromoethane	ND		4.9	0.51	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Trichlorofluoromethane	ND		9.8	1.0	ug/Kg	☼	01/02/13 06:00	01/02/13 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		58 - 140				01/02/13 06:00	01/02/13 17:34	1
Toluene-d8 (Surr)	97		80 - 126				01/02/13 06:00	01/02/13 17:34	1
4-Bromofluorobenzene (Surr)	115		76 - 127				01/02/13 06:00	01/02/13 17:34	1
Dibromofluoromethane (Surr)	86		75 - 121				01/02/13 06:00	01/02/13 17:34	1

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.4	J	22	5.9	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
2-Butanone (MEK)	ND		22	2.0	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Benzene	ND		5.5	0.51	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chlorobenzene	ND		5.5	0.59	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Carbon disulfide	ND		5.5	0.46	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Carbon tetrachloride	ND		5.5	0.69	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Cyclohexane	ND		5.5	0.44	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2-Dibromo-3-Chloropropane	ND		11	0.66	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Bromomethane	ND		11	0.55	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Bromoform	0.36	J B	5.5	0.25	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chloroethane	ND		11	0.97	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chloroform	ND		11	0.32	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chlorobromomethane	ND		5.5	0.33	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Dichlorobromomethane	ND		5.5	0.24	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chlorodibromomethane	ND		5.5	0.62	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Isopropylbenzene	ND		5.5	0.65	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
2-Hexanone	ND		22	5.4	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Chloromethane	ND		11	0.84	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Dichlorodifluoromethane	ND		11	0.57	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
trans-1,2-Dichloroethene	ND		2.7	0.43	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
trans-1,3-Dichloropropene	ND		5.5	0.73	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Methylene Chloride	ND		5.5	1.8	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Methyl acetate	ND		11	3.0	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Methyl tert-butyl ether	ND		22	0.37	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		22	4.8	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Methylcyclohexane	ND		5.5	0.46	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Styrene	ND		5.5	0.69	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1,2,2-Tetrachloroethane	ND		5.5	0.67	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2,3-Trichlorobenzene	ND		5.5	0.82	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2,4-Trichlorobenzene	ND		5.5	0.80	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Toluene	ND		5.5	0.76	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1,1-Trichloroethane	ND		5.5	0.57	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1,2-Trichloroethane	ND		5.5	0.96	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Trichloroethene	ND		5.5	0.25	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1,2-Trichlorotrifluoroethane	ND		22	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Vinyl chloride	ND		5.5	1.5	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.7	1.1	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
o-Xylene	ND		2.7	0.67	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Tetrachloroethene	ND		5.5	0.65	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2-Dichlorobenzene	ND		5.5	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,3-Dichlorobenzene	ND		5.5	0.53	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,4-Dichlorobenzene	ND		5.5	0.85	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
cis-1,2-Dichloroethene	ND		2.7	0.61	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
cis-1,3-Dichloropropene	ND		5.5	1.4	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1-Dichloroethane	ND		5.5	0.23	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,1-Dichloroethene	ND		5.5	0.65	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2-Dichloroethane	ND		5.5	0.77	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2-Dichloropropane	ND		5.5	0.60	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,4-Dioxane	ND		550	61	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Ethylbenzene	ND		5.5	0.73	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
1,2-Dibromoethane	ND		5.5	0.57	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Trichlorofluoromethane	ND		11	1.1	ug/Kg	☼	01/02/13 06:00	01/02/13 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		58 - 140				01/02/13 06:00	01/02/13 18:16	1
Toluene-d8 (Surr)	91		80 - 126				01/02/13 06:00	01/02/13 18:16	1
4-Bromofluorobenzene (Surr)	102		76 - 127				01/02/13 06:00	01/02/13 18:16	1
Dibromofluoromethane (Surr)	85		75 - 121				01/02/13 06:00	01/02/13 18:16	1

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13	J	19	5.0	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
2-Butanone (MEK)	ND		19	1.7	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Benzene	ND		4.7	0.44	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chlorobenzene	ND		4.7	0.51	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Carbon disulfide	ND		4.7	0.39	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Carbon tetrachloride	ND		4.7	0.59	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Cyclohexane	ND		4.7	0.37	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2-Dibromo-3-Chloropropane	ND		9.4	0.56	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Bromomethane	ND		9.4	0.47	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Bromoform	0.29	J B	4.7	0.22	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chloroethane	ND		9.4	0.83	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chloroform	ND		9.4	0.27	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chlorobromomethane	ND		4.7	0.28	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Dichlorobromomethane	ND		4.7	0.21	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chlorodibromomethane	ND		4.7	0.53	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Isopropylbenzene	ND		4.7	0.55	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
2-Hexanone	ND		19	4.6	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Chloromethane	ND		9.4	0.72	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Dichlorodifluoromethane	ND		9.4	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
trans-1,2-Dichloroethene	ND		2.3	0.37	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
trans-1,3-Dichloropropene	ND		4.7	0.63	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Methylene Chloride	1.6	J	4.7	1.5	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Methyl acetate	ND		9.4	2.6	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		19	0.32	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		19	4.1	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Methylcyclohexane	ND		4.7	0.39	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Styrene	ND		4.7	0.59	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.57	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2,3-Trichlorobenzene	ND		4.7	0.70	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2,4-Trichlorobenzene	ND		4.7	0.68	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Toluene	ND		4.7	0.65	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1,1-Trichloroethane	ND		4.7	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1,2-Trichloroethane	ND		4.7	0.82	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Trichloroethene	ND		4.7	0.22	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.42	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Vinyl chloride	ND		4.7	1.3	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
m-Xylene & p-Xylene	ND		2.3	0.97	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
o-Xylene	ND		2.3	0.57	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Tetrachloroethene	0.90	J	4.7	0.55	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2-Dichlorobenzene	ND		4.7	0.42	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,3-Dichlorobenzene	ND		4.7	0.45	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,4-Dichlorobenzene	ND		4.7	0.73	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
cis-1,2-Dichloroethene	ND		2.3	0.52	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
cis-1,3-Dichloropropene	ND		4.7	1.2	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1-Dichloroethane	ND		4.7	0.20	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,1-Dichloroethene	ND		4.7	0.55	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2-Dichloroethane	ND		4.7	0.66	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2-Dichloropropane	ND		4.7	0.52	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,4-Dioxane	ND		470	53	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Ethylbenzene	ND		4.7	0.63	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
1,2-Dibromoethane	ND		4.7	0.49	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Trichlorofluoromethane	ND		9.4	0.97	ug/Kg	☼	01/02/13 06:00	01/02/13 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		58 - 140				01/02/13 06:00	01/02/13 17:55	1
Toluene-d8 (Surr)	95		80 - 126				01/02/13 06:00	01/02/13 17:55	1
4-Bromofluorobenzene (Surr)	116		76 - 127				01/02/13 06:00	01/02/13 17:55	1
Dibromofluoromethane (Surr)	86		75 - 121				01/02/13 06:00	01/02/13 17:55	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.4	J	10	1.9	ug/L			01/02/13 13:33	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			01/02/13 13:33	1
Benzene	ND		1.0	0.16	ug/L			01/02/13 13:33	1
Chlorobenzene	ND		1.0	0.17	ug/L			01/02/13 13:33	1
Carbon disulfide	ND		2.0	0.45	ug/L			01/02/13 13:33	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/02/13 13:33	1
Cyclohexane	ND		2.0	0.28	ug/L			01/02/13 13:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			01/02/13 13:33	1
Bromomethane	ND		2.0	0.21	ug/L			01/02/13 13:33	1
Bromoform	ND		1.0	0.19	ug/L			01/02/13 13:33	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0	0.41	ug/L			01/02/13 13:33	1
Chloroform	ND		1.0	0.16	ug/L			01/02/13 13:33	1
Chlorobromomethane	ND		1.0	0.10	ug/L			01/02/13 13:33	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			01/02/13 13:33	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			01/02/13 13:33	1
Isopropylbenzene	ND		1.0	0.19	ug/L			01/02/13 13:33	1
2-Hexanone	ND		5.0	1.7	ug/L			01/02/13 13:33	1
Chloromethane	ND		2.0	0.30	ug/L			01/02/13 13:33	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			01/02/13 13:33	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 13:33	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			01/02/13 13:33	1
Methylene Chloride	ND		2.0	0.32	ug/L			01/02/13 13:33	1
Methyl acetate	ND		5.0	1.6	ug/L			01/02/13 13:33	1
Methyl tert-butyl ether	0.29	J	5.0	0.25	ug/L			01/02/13 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			01/02/13 13:33	1
Methylcyclohexane	ND		1.0	0.36	ug/L			01/02/13 13:33	1
Styrene	ND		1.0	0.17	ug/L			01/02/13 13:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/02/13 13:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 13:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 13:33	1
Toluene	ND		1.0	0.17	ug/L			01/02/13 13:33	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			01/02/13 13:33	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			01/02/13 13:33	1
Trichloroethene	ND		1.0	0.16	ug/L			01/02/13 13:33	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			01/02/13 13:33	1
Vinyl chloride	ND		1.0	0.10	ug/L			01/02/13 13:33	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			01/02/13 13:33	1
o-Xylene	ND		1.0	0.19	ug/L			01/02/13 13:33	1
Tetrachloroethene	ND		1.0	0.20	ug/L			01/02/13 13:33	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/02/13 13:33	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			01/02/13 13:33	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			01/02/13 13:33	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 13:33	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			01/02/13 13:33	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			01/02/13 13:33	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			01/02/13 13:33	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			01/02/13 13:33	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			01/02/13 13:33	1
1,4-Dioxane	ND		200	57	ug/L			01/02/13 13:33	1
Ethylbenzene	ND		1.0	0.16	ug/L			01/02/13 13:33	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			01/02/13 13:33	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			01/02/13 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 127					01/02/13 13:33	1
Toluene-d8 (Surr)	100		80 - 125					01/02/13 13:33	1
4-Bromofluorobenzene (Surr)	103		78 - 120					01/02/13 13:33	1
Dibromofluoromethane (Surr)	83		77 - 120					01/02/13 13:33	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.6	1.7	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,2,4,5-Tetrachlorobenzene	ND		9.6	1.7	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,2,4-Trichlorobenzene	ND		3.8	0.27	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,2-Dichlorobenzene	ND		3.8	0.22	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,3-Dichlorobenzene	ND		9.6	0.29	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,4-Dichlorobenzene	ND		3.8	0.31	ug/L		12/28/12 11:36	12/31/12 23:21	1
1,4-Dioxane	ND		19	1.6	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4,6-Trichlorophenol	ND		9.6	0.28	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4-Dichlorophenol	ND		9.6	0.61	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,2'-oxybis[1-chloropropane]	ND		9.6	0.27	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,3,4,6-Tetrachlorophenol	ND		48	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4,5-Trichlorophenol	ND		9.6	0.43	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4-Dimethylphenol	ND		9.6	0.55	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4-Dinitrophenol	ND		29	9.6	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,4-Dinitrotoluene	ND		9.6	1.6	ug/L		12/28/12 11:36	12/31/12 23:21	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Chloronaphthalene	ND		3.8	0.25	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Chlorophenol	ND		9.6	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Methylnaphthalene	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Methylphenol	ND		9.6	0.94	ug/L		12/28/12 11:36	12/31/12 23:21	1
3 & 4 Methylphenol	ND		9.6	0.24	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Nitroaniline	ND		9.6	1.7	ug/L		12/28/12 11:36	12/31/12 23:21	1
2-Nitrophenol	ND		9.6	0.37	ug/L		12/28/12 11:36	12/31/12 23:21	1
3,3'-Dichlorobenzidine	ND		48	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
3-Nitroaniline	ND		9.6	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
4,6-Dinitro-2-methylphenol	ND		48	3.8	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Bromophenyl phenyl ether	ND		9.6	0.41	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Chloro-3-methylphenol	ND		9.6	2.3	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Chloroaniline	ND		9.6	2.0	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Chlorophenyl phenyl ether	ND		9.6	1.6	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Nitroaniline	ND		9.6	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
4-Nitrophenol	ND		9.6	1.2	ug/L		12/28/12 11:36	12/31/12 23:21	1
Acenaphthene	ND		3.8	0.27	ug/L		12/28/12 11:36	12/31/12 23:21	1
Acenaphthylene	ND		3.8	0.47	ug/L		12/28/12 11:36	12/31/12 23:21	1
Acetophenone	ND		9.6	0.23	ug/L		12/28/12 11:36	12/31/12 23:21	1
Anthracene	ND		3.8	0.40	ug/L		12/28/12 11:36	12/31/12 23:21	1
Atrazine	ND		9.6	0.70	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzaldehyde	ND		9.6	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzo[a]pyrene	ND		3.8	0.30	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzo[b]fluoranthene	ND		3.8	0.51	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzo[g,h,i]perylene	ND		3.8	0.48	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzo[k]fluoranthene	ND		3.8	0.44	ug/L		12/28/12 11:36	12/31/12 23:21	1
Benzo[a]anthracene	ND		3.8	0.33	ug/L		12/28/12 11:36	12/31/12 23:21	1
Bis(2-chloroethoxy)methane	ND		9.6	0.93	ug/L		12/28/12 11:36	12/31/12 23:21	1
Bis(2-chloroethyl)ether	ND		9.6	0.39	ug/L		12/28/12 11:36	12/31/12 23:21	1
Bis(2-ethylhexyl) phthalate	ND		9.6	0.54	ug/L		12/28/12 11:36	12/31/12 23:21	1
Butyl benzyl phthalate	ND		3.8	0.96	ug/L		12/28/12 11:36	12/31/12 23:21	1
Caprolactam	ND		9.6	4.8	ug/L		12/28/12 11:36	12/31/12 23:21	1
Carbazole	ND		3.8	0.41	ug/L		12/28/12 11:36	12/31/12 23:21	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		3.8	0.52	ug/L		12/28/12 11:36	12/31/12 23:21	1
Dibenz(a,h)anthracene	ND		3.8	0.49	ug/L		12/28/12 11:36	12/31/12 23:21	1
Di-n-butyl phthalate	ND		3.8	1.1	ug/L		12/28/12 11:36	12/31/12 23:21	1
Di-n-octyl phthalate	ND		3.8	0.33	ug/L		12/28/12 11:36	12/31/12 23:21	1
Dibenzofuran	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:21	1
Diethyl phthalate	ND		3.8	0.36	ug/L		12/28/12 11:36	12/31/12 23:21	1
Dimethyl phthalate	ND		3.8	0.20	ug/L		12/28/12 11:36	12/31/12 23:21	1
Fluoranthene	ND		3.8	0.19	ug/L		12/28/12 11:36	12/31/12 23:21	1
Fluorene	ND		3.8	0.30	ug/L		12/28/12 11:36	12/31/12 23:21	1
Hexachlorobenzene	ND		9.6	0.63	ug/L		12/28/12 11:36	12/31/12 23:21	1
Hexachlorobutadiene	ND		9.6	3.2	ug/L		12/28/12 11:36	12/31/12 23:21	1
Hexachlorocyclopentadiene	ND		48	9.6	ug/L		12/28/12 11:36	12/31/12 23:21	1
Hexachloroethane	ND		9.6	2.0	ug/L		12/28/12 11:36	12/31/12 23:21	1
Indeno[1,2,3-cd]pyrene	ND		3.8	0.62	ug/L		12/28/12 11:36	12/31/12 23:21	1
Isophorone	ND		9.6	0.20	ug/L		12/28/12 11:36	12/31/12 23:21	1
N-Nitrosodi-n-propylamine	ND		9.6	0.33	ug/L		12/28/12 11:36	12/31/12 23:21	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.6	0.42	ug/L		12/28/12 11:36	12/31/12 23:21	1
Naphthalene	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:21	1
Nitrobenzene	ND		9.6	0.77	ug/L		12/28/12 11:36	12/31/12 23:21	1
Pentachlorophenol	ND		48	19	ug/L		12/28/12 11:36	12/31/12 23:21	1
Phenanthrene	ND		3.8	0.25	ug/L		12/28/12 11:36	12/31/12 23:21	1
Phenol	ND		9.6	1.9	ug/L		12/28/12 11:36	12/31/12 23:21	1
Pyrene	ND		9.6	0.35	ug/L		12/28/12 11:36	12/31/12 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		51 - 120	12/28/12 11:36	12/31/12 23:21	1
Phenol-d5	79		51 - 120	12/28/12 11:36	12/31/12 23:21	1
2,4,6-Tribromophenol	96		57 - 120	12/28/12 11:36	12/31/12 23:21	1
2-Fluorobiphenyl	82		38 - 120	12/28/12 11:36	12/31/12 23:21	1
Nitrobenzene-d5	85		48 - 120	12/28/12 11:36	12/31/12 23:21	1
Terphenyl-d14	74		50 - 120	12/28/12 11:36	12/31/12 23:21	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.5	1.7	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,2,4,5-Tetrachlorobenzene	ND		9.5	1.7	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,2,4-Trichlorobenzene	ND		3.8	0.27	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,2-Dichlorobenzene	ND		3.8	0.22	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,3-Dichlorobenzene	ND		9.5	0.29	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,4-Dichlorobenzene	ND		3.8	0.31	ug/L		12/28/12 11:36	12/31/12 23:40	1
1,4-Dioxane	ND		19	1.6	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,4,6-Trichlorophenol	ND		9.5	0.28	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,4-Dichlorophenol	ND		9.5	0.61	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,2'-oxybis[1-chloropropane]	ND		9.5	0.27	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,3,4,6-Tetrachlorophenol	ND		48	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,4,5-Trichlorophenol	ND		9.5	0.43	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,4-Dimethylphenol	ND		9.5	0.55	ug/L		12/28/12 11:36	12/31/12 23:40	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		29	9.5	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,4-Dinitrotoluene	ND		9.5	1.6	ug/L		12/28/12 11:36	12/31/12 23:40	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Chloronaphthalene	ND		3.8	0.25	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Chlorophenol	ND		9.5	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Methylnaphthalene	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Methylphenol	ND		9.5	0.93	ug/L		12/28/12 11:36	12/31/12 23:40	1
3 & 4 Methylphenol	ND		9.5	0.24	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Nitroaniline	ND		9.5	1.7	ug/L		12/28/12 11:36	12/31/12 23:40	1
2-Nitrophenol	ND		9.5	0.37	ug/L		12/28/12 11:36	12/31/12 23:40	1
3,3'-Dichlorobenzidine	ND		48	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
3-Nitroaniline	ND		9.5	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
4,6-Dinitro-2-methylphenol	ND		48	3.8	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Bromophenyl phenyl ether	ND		9.5	0.41	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Chloro-3-methylphenol	ND		9.5	2.3	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Chloroaniline	ND		9.5	2.0	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Chlorophenyl phenyl ether	ND		9.5	1.6	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Nitroaniline	ND		9.5	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
4-Nitrophenol	ND		9.5	1.2	ug/L		12/28/12 11:36	12/31/12 23:40	1
Acenaphthene	ND		3.8	0.27	ug/L		12/28/12 11:36	12/31/12 23:40	1
Acenaphthylene	ND		3.8	0.47	ug/L		12/28/12 11:36	12/31/12 23:40	1
Acetophenone	ND		9.5	0.23	ug/L		12/28/12 11:36	12/31/12 23:40	1
Anthracene	ND		3.8	0.40	ug/L		12/28/12 11:36	12/31/12 23:40	1
Atrazine	ND		9.5	0.70	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzaldehyde	ND		9.5	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzo[a]pyrene	ND		3.8	0.30	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzo[b]fluoranthene	ND		3.8	0.51	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzo[g,h,i]perylene	ND		3.8	0.48	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzo[k]fluoranthene	ND		3.8	0.44	ug/L		12/28/12 11:36	12/31/12 23:40	1
Benzo[a]anthracene	ND		3.8	0.33	ug/L		12/28/12 11:36	12/31/12 23:40	1
Bis(2-chloroethoxy)methane	ND		9.5	0.93	ug/L		12/28/12 11:36	12/31/12 23:40	1
Bis(2-chloroethyl)ether	ND		9.5	0.39	ug/L		12/28/12 11:36	12/31/12 23:40	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.53	ug/L		12/28/12 11:36	12/31/12 23:40	1
Butyl benzyl phthalate	ND		3.8	0.95	ug/L		12/28/12 11:36	12/31/12 23:40	1
Caprolactam	ND		9.5	4.8	ug/L		12/28/12 11:36	12/31/12 23:40	1
Carbazole	ND		3.8	0.41	ug/L		12/28/12 11:36	12/31/12 23:40	1
Chrysene	ND		3.8	0.52	ug/L		12/28/12 11:36	12/31/12 23:40	1
Dibenz(a,h)anthracene	ND		3.8	0.49	ug/L		12/28/12 11:36	12/31/12 23:40	1
Di-n-butyl phthalate	ND		3.8	1.1	ug/L		12/28/12 11:36	12/31/12 23:40	1
Di-n-octyl phthalate	ND		3.8	0.33	ug/L		12/28/12 11:36	12/31/12 23:40	1
Dibenzofuran	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:40	1
Diethyl phthalate	ND		3.8	0.36	ug/L		12/28/12 11:36	12/31/12 23:40	1
Dimethyl phthalate	ND		3.8	0.20	ug/L		12/28/12 11:36	12/31/12 23:40	1
Fluoranthene	ND		3.8	0.19	ug/L		12/28/12 11:36	12/31/12 23:40	1
Fluorene	ND		3.8	0.30	ug/L		12/28/12 11:36	12/31/12 23:40	1
Hexachlorobenzene	ND		9.5	0.63	ug/L		12/28/12 11:36	12/31/12 23:40	1
Hexachlorobutadiene	ND		9.5	3.1	ug/L		12/28/12 11:36	12/31/12 23:40	1
Hexachlorocyclopentadiene	ND		48	9.5	ug/L		12/28/12 11:36	12/31/12 23:40	1
Hexachloroethane	ND		9.5	2.0	ug/L		12/28/12 11:36	12/31/12 23:40	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		3.8	0.62	ug/L		12/28/12 11:36	12/31/12 23:40	1
Isophorone	ND		9.5	0.20	ug/L		12/28/12 11:36	12/31/12 23:40	1
N-Nitrosodi-n-propylamine	ND		9.5	0.33	ug/L		12/28/12 11:36	12/31/12 23:40	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.5	0.42	ug/L		12/28/12 11:36	12/31/12 23:40	1
Naphthalene	ND		3.8	0.28	ug/L		12/28/12 11:36	12/31/12 23:40	1
Nitrobenzene	ND		9.5	0.77	ug/L		12/28/12 11:36	12/31/12 23:40	1
Pentachlorophenol	ND		48	19	ug/L		12/28/12 11:36	12/31/12 23:40	1
Phenanthrene	ND		3.8	0.25	ug/L		12/28/12 11:36	12/31/12 23:40	1
Phenol	ND		9.5	1.9	ug/L		12/28/12 11:36	12/31/12 23:40	1
Pyrene	ND		9.5	0.35	ug/L		12/28/12 11:36	12/31/12 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		51 - 120				12/28/12 11:36	12/31/12 23:40	1
Phenol-d5	79		51 - 120				12/28/12 11:36	12/31/12 23:40	1
2,4,6-Tribromophenol	94		57 - 120				12/28/12 11:36	12/31/12 23:40	1
2-Fluorobiphenyl	81		38 - 120				12/28/12 11:36	12/31/12 23:40	1
Nitrobenzene-d5	83		48 - 120				12/28/12 11:36	12/31/12 23:40	1
Terphenyl-d14	79		50 - 120				12/28/12 11:36	12/31/12 23:40	1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.7	2.8	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
4,4'-DDE	1.5	J p	8.7	1.2	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
4,4'-DDT	12	p	8.7	3.0	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Aldrin	ND		8.7	1.3	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
alpha-BHC	ND		8.7	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
beta-BHC	ND		8.7	3.4	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Chlordane (n.o.s.)	2.8	J B p	8.7	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
delta-BHC	ND		8.7	2.1	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Dieldrin	5.7	J	8.7	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Endosulfan I	ND		8.7	0.90	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Endosulfan II	ND		8.7	1.5	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Endosulfan sulfate	ND		8.7	1.4	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Endrin	ND		8.7	1.6	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Endrin aldehyde	ND		8.7	0.88	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
gamma-BHC (Lindane)	ND		8.7	2.4	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Heptachlor	ND		8.7	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Heptachlor epoxide	ND		8.7	2.2	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Methoxychlor	ND		17	2.3	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Toxaphene	ND		340	81	ug/Kg	☼	12/28/12 09:48	01/04/13 12:49	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107	D	63 - 124				12/28/12 09:48	01/04/13 12:49	5
Tetrachloro-m-xylene	84	D	59 - 115				12/28/12 09:48	01/04/13 12:49	5

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.59	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
4,4'-DDE	2.0		1.8	0.26	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
4,4'-DDT	2.0	p	1.8	0.64	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Aldrin	ND		1.8	0.27	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
alpha-BHC	ND		1.8	0.23	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
beta-BHC	ND		1.8	0.72	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Chlordane (n.o.s.)	1.5	J B	1.8	0.23	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
delta-BHC	ND		1.8	0.43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Dieldrin	0.43	J	1.8	0.23	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Endosulfan I	ND		1.8	0.19	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Endosulfan II	ND		1.8	0.31	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Endosulfan sulfate	ND		1.8	0.30	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Endrin	ND		1.8	0.33	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Endrin aldehyde	ND		1.8	0.19	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
gamma-BHC (Lindane)	ND		1.8	0.50	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Heptachlor	ND		1.8	0.23	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Heptachlor epoxide	0.68	J	1.8	0.46	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Methoxychlor	ND		3.6	0.49	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1
Toxaphene	ND		73	17	ug/Kg	☼	12/28/12 09:48	01/04/13 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		63 - 124	12/28/12 09:48	01/04/13 13:05	1
Tetrachloro-m-xylene	82		59 - 115	12/28/12 09:48	01/04/13 13:05	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.52	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
4,4'-DDE	ND		1.6	0.23	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
4,4'-DDT	ND		1.6	0.56	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Aldrin	ND		1.6	0.24	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
alpha-BHC	ND		1.6	0.20	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
beta-BHC	ND		1.6	0.63	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Chlordane (n.o.s.)	ND		1.6	0.20	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
delta-BHC	ND		1.6	0.38	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Dieldrin	ND		1.6	0.20	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Endosulfan I	ND		1.6	0.17	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Endosulfan II	ND		1.6	0.27	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Endosulfan sulfate	ND		1.6	0.26	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Endrin	ND		1.6	0.29	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Endrin aldehyde	ND		1.6	0.16	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
gamma-BHC (Lindane)	ND		1.6	0.44	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Heptachlor	ND		1.6	0.20	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Heptachlor epoxide	ND		1.6	0.41	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Methoxychlor	ND		3.1	0.43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1
Toxaphene	ND		64	15	ug/Kg	☼	12/28/12 09:48	01/04/13 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		63 - 124	12/28/12 09:48	01/04/13 13:22	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		59 - 115	12/28/12 09:48	01/04/13 13:22	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	140	J	340	110	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
4,4'-DDE	1900		340	48	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
4,4'-DDT	2700		340	120	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Aldrin	ND		340	51	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
alpha-BHC	ND		340	43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
beta-BHC	ND		340	130	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Chlordane (n.o.s.)	ND		340	43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
delta-BHC	ND		340	81	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Dieldrin	ND		340	43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Endosulfan I	ND		340	36	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Endosulfan II	ND		340	58	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Endosulfan sulfate	ND		340	56	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Endrin	ND		340	62	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Endrin aldehyde	ND		340	35	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
gamma-BHC (Lindane)	ND		340	94	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Heptachlor	ND		340	43	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Heptachlor epoxide	ND		340	86	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Methoxychlor	ND		670	91	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200
Toxaphene	ND		14000	3200	ug/Kg	☼	12/28/12 09:48	01/04/13 13:39	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	63 - 124	12/28/12 09:48	01/04/13 13:39	200
Tetrachloro-m-xylene	0	D	59 - 115	12/28/12 09:48	01/04/13 13:39	200

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	5.7	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
4,4'-DDE	58		18	2.5	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
4,4'-DDT	98		18	6.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Aldrin	ND		18	2.6	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
alpha-BHC	ND		18	2.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
beta-BHC	ND		18	6.9	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Chlordane (n.o.s.)	ND		18	2.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
delta-BHC	ND		18	4.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Dieldrin	ND		18	2.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Endosulfan I	ND		18	1.8	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Endosulfan II	ND		18	3.0	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Endosulfan sulfate	ND		18	2.9	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Endrin	ND		18	3.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Endrin aldehyde	ND		18	1.8	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
gamma-BHC (Lindane)	ND		18	4.8	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Heptachlor	ND		18	2.2	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		18	4.4	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Methoxychlor	ND		34	4.7	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Toxaphene	ND		700	160	ug/Kg	☼	12/28/12 09:48	01/04/13 13:56	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79	D	63 - 124				12/28/12 09:48	01/04/13 13:56	10
Tetrachloro-m-xylene	60	D	59 - 115				12/28/12 09:48	01/04/13 13:56	10

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.6	2.8	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
4,4'-DDE	18		8.6	1.2	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
4,4'-DDT	40		8.6	3.0	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Aldrin	ND		8.6	1.3	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
alpha-BHC	ND		8.6	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
beta-BHC	ND		8.6	3.3	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Chlordane (n.o.s.)	ND		8.6	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
delta-BHC	ND		8.6	2.0	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Dieldrin	ND		8.6	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Endosulfan I	ND		8.6	0.89	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Endosulfan II	ND		8.6	1.4	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Endosulfan sulfate	ND		8.6	1.4	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Endrin	ND		8.6	1.5	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Endrin aldehyde	ND		8.6	0.86	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
gamma-BHC (Lindane)	ND		8.6	2.3	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Heptachlor	ND		8.6	1.1	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Heptachlor epoxide	ND		8.6	2.1	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Methoxychlor	ND		17	2.3	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Toxaphene	ND		340	80	ug/Kg	☼	12/28/12 09:48	01/04/13 14:46	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98	D	63 - 124				12/28/12 09:48	01/04/13 14:46	5
Tetrachloro-m-xylene	89	D	59 - 115				12/28/12 09:48	01/04/13 14:46	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		34	5.2	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1221	ND		48	16	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1232	ND		34	5.2	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1242	ND		34	9.3	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1248	ND		34	5.7	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1254	61		34	5.7	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1260	64		34	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
PCB-1262	ND		34	12	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		34	4.0	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
Polychlorinated biphenyls, Total	120		34	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58	X	59 - 130				12/28/12 09:48	01/03/13 03:33	1
Tetrachloro-m-xylene	82		53 - 128				12/28/12 09:48	01/03/13 03:33	1

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		36	5.5	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1221	ND		51	17	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1232	ND		36	5.6	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1242	ND		36	9.9	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1248	ND		36	6.1	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1254	ND		36	6.0	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1260	ND		36	2.9	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1262	ND		36	13	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
PCB-1268	ND		36	4.3	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
Polychlorinated biphenyls, Total	ND		36	2.9	ug/Kg	☼	12/28/12 09:48	01/03/13 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		59 - 130				12/28/12 09:48	01/03/13 03:54	1
Tetrachloro-m-xylene	87		53 - 128				12/28/12 09:48	01/03/13 03:54	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		31	4.8	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1221	ND		45	15	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1232	ND		31	4.9	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1242	ND		31	8.7	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1248	ND		31	5.3	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1254	ND		31	5.3	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1260	ND		31	2.5	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1262	ND		31	11	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
PCB-1268	ND		31	3.8	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
Polychlorinated biphenyls, Total	ND		31	2.5	ug/Kg	☼	12/28/12 09:48	01/03/13 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		59 - 130				12/28/12 09:48	01/03/13 04:16	1
Tetrachloro-m-xylene	93		53 - 128				12/28/12 09:48	01/03/13 04:16	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.2	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1221	ND		48	16	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		33	5.2	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1242	ND		33	9.2	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1248	ND		33	5.7	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1254	ND		33	5.6	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1260	ND		33	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1262	ND		33	12	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
PCB-1268	ND		33	4.0	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
Polychlorinated biphenyls, Total	ND		33	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		59 - 130				12/28/12 09:48	01/03/13 04:37	1
Tetrachloro-m-xylene	74		53 - 128				12/28/12 09:48	01/03/13 04:37	1

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		34	5.3	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1221	ND		49	16	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1232	ND		34	5.3	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1242	ND		34	9.5	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1248	ND		34	5.9	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1254	ND		34	5.8	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1260	ND		34	2.8	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1262	ND		34	12	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
PCB-1268	ND		34	4.1	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
Polychlorinated biphenyls, Total	ND		34	2.8	ug/Kg	☼	12/28/12 09:48	01/03/13 04:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		59 - 130				12/28/12 09:48	01/03/13 04:58	1
Tetrachloro-m-xylene	82		53 - 128				12/28/12 09:48	01/03/13 04:58	1

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.1	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1221	ND		47	16	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1232	ND		33	5.2	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1242	ND		33	9.2	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1248	ND		33	5.7	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1254	ND		33	5.6	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1260	ND		33	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1262	ND		33	12	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
PCB-1268	ND		33	4.0	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
Polychlorinated biphenyls, Total	ND		33	2.7	ug/Kg	☼	12/28/12 09:48	01/03/13 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		59 - 130				12/28/12 09:48	01/03/13 06:02	1
Tetrachloro-m-xylene	90		53 - 128				12/28/12 09:48	01/03/13 06:02	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8151A - Herbicides (GC)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		430	76	ug/Kg	☼	01/02/13 12:00	01/04/13 13:51	5
Dinoseb	ND		65	7.6	ug/Kg	☼	01/02/13 12:00	01/04/13 13:51	5
2,4,5-T	ND		110	13	ug/Kg	☼	01/02/13 12:00	01/04/13 13:51	5
Silvex (2,4,5-TP)	ND		110	7.6	ug/Kg	☼	01/02/13 12:00	01/04/13 13:51	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	90	D	31 - 105				01/02/13 12:00	01/04/13 13:51	5

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		83	15	ug/Kg	☼	01/02/13 12:00	01/04/13 15:00	1
Dinoseb	ND		12	1.5	ug/Kg	☼	01/02/13 12:00	01/04/13 15:00	1
2,4,5-T	ND		21	2.4	ug/Kg	☼	01/02/13 12:00	01/04/13 15:00	1
Silvex (2,4,5-TP)	ND		21	1.5	ug/Kg	☼	01/02/13 12:00	01/04/13 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	73		31 - 105				01/02/13 12:00	01/04/13 15:00	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		79	14	ug/Kg	☼	01/02/13 12:00	01/04/13 15:23	1
Dinoseb	ND		12	1.4	ug/Kg	☼	01/02/13 12:00	01/04/13 15:23	1
2,4,5-T	ND		20	2.3	ug/Kg	☼	01/02/13 12:00	01/04/13 15:23	1
Silvex (2,4,5-TP)	ND		20	1.4	ug/Kg	☼	01/02/13 12:00	01/04/13 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	73		31 - 105				01/02/13 12:00	01/04/13 15:23	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		430	75	ug/Kg	☼	01/02/13 12:00	01/04/13 15:45	5
Dinoseb	ND		64	7.5	ug/Kg	☼	01/02/13 12:00	01/04/13 15:45	5
2,4,5-T	ND		110	12	ug/Kg	☼	01/02/13 12:00	01/04/13 15:45	5
Silvex (2,4,5-TP)	ND		110	7.5	ug/Kg	☼	01/02/13 12:00	01/04/13 15:45	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77	D	31 - 105				01/02/13 12:00	01/04/13 15:45	5

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		84	15	ug/Kg	☼	01/02/13 12:00	01/04/13 16:08	1
Dinoseb	ND		13	1.5	ug/Kg	☼	01/02/13 12:00	01/04/13 16:08	1
2,4,5-T	ND		21	2.4	ug/Kg	☼	01/02/13 12:00	01/04/13 16:08	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8151A - Herbicides (GC) (Continued)

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		21	1.5	ug/Kg	☼	01/02/13 12:00	01/04/13 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		31 - 105				01/02/13 12:00	01/04/13 16:08	1

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		82	14	ug/Kg	☼	01/02/13 12:00	01/04/13 16:31	1
Dinoseb	ND		12	1.4	ug/Kg	☼	01/02/13 12:00	01/04/13 16:31	1
2,4,5-T	ND		21	2.4	ug/Kg	☼	01/02/13 12:00	01/04/13 16:31	1
Silvex (2,4,5-TP)	ND		21	1.4	ug/Kg	☼	01/02/13 12:00	01/04/13 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	64		31 - 105				01/02/13 12:00	01/04/13 16:31	1

Method: 6010B - Metals (ICP)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3500		1900	620	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Barium	160000		940	71	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Cadmium	170	J	470	38	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Chromium	10000		1400	54	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Lead	35000		750	250	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Selenium	880	J	1200	810	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1
Silver	ND		940	150	ug/Kg	☼	12/28/12 12:00	12/31/12 18:15	1

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6000		2200	720	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Barium	110000		1100	83	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Cadmium	76	J	540	45	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Chromium	8400		1600	63	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Lead	37000		870	290	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Selenium	ND		1400	940	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1
Silver	ND		1100	170	ug/Kg	☼	12/28/12 12:00	12/31/12 18:32	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	800	J	1800	590	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1
Barium	19000		890	68	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1
Cadmium	ND		450	37	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1
Chromium	1100	J	1300	52	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1500		710	240	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1
Selenium	ND		1200	770	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1
Silver	ND		890	140	ug/Kg	☼	12/28/12 12:00	12/31/12 18:35	1

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.2	J	15	4.4	ug/L		12/28/12 07:30	12/28/12 19:46	1
Barium	430		10	0.58	ug/L		12/28/12 07:30	12/28/12 19:46	1
Cadmium	0.68	J	5.0	0.45	ug/L		12/28/12 07:30	12/28/12 19:46	1
Chromium	28		10	0.66	ug/L		12/28/12 07:30	12/28/12 19:46	1
Lead	21		9.0	2.6	ug/L		12/28/12 07:30	12/28/12 19:46	1
Selenium	12	J	15	4.9	ug/L		12/28/12 07:30	12/28/12 19:46	1
Silver	ND		10	0.93	ug/L		12/28/12 07:30	12/28/12 19:46	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6000		2100	710	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Barium	330000		1100	81	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Cadmium	520	J	540	44	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Chromium	10000		1600	62	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Lead	170000		860	290	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Selenium	1300	J	1400	920	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1
Silver	400	J	1100	170	ug/Kg	☼	12/28/12 12:00	12/31/12 18:37	1

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3900		2100	700	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Barium	100000		1100	81	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Cadmium	120	J	530	43	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Chromium	9000		1600	61	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Lead	28000		850	290	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Selenium	ND		1400	910	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1
Silver	ND		1100	170	ug/Kg	☼	12/28/12 12:00	12/31/12 18:39	1

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2100		2000	660	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1
Barium	34000		1000	76	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1
Cadmium	48	J	500	41	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1
Chromium	3300		1500	58	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1
Lead	8100		800	270	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1
Selenium	ND		1300	860	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1000	160	ug/Kg	☼	12/28/12 12:00	12/31/12 18:41	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 07:30	12/28/12 19:56	1
Barium	310		10	0.58	ug/L		12/28/12 07:30	12/28/12 19:56	1
Cadmium	0.58	J	5.0	0.45	ug/L		12/28/12 07:30	12/28/12 19:56	1
Chromium	38		10	0.66	ug/L		12/28/12 07:30	12/28/12 19:56	1
Lead	11		9.0	2.6	ug/L		12/28/12 07:30	12/28/12 19:56	1
Selenium	9.7	J	15	4.9	ug/L		12/28/12 07:30	12/28/12 19:56	1
Silver	ND		10	0.93	ug/L		12/28/12 07:30	12/28/12 19:56	1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:11	1
Barium	170	B	10	0.58	ug/L		12/28/12 12:00	12/31/12 20:11	1
Cadmium	ND		5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:11	1
Chromium	1.3	J	10	0.66	ug/L		12/28/12 12:00	12/31/12 20:11	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:11	1
Selenium	11	J	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:11	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:11	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:19	1
Barium	150	B	10	0.58	ug/L		12/28/12 12:00	12/31/12 20:19	1
Cadmium	0.49	J	5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:19	1
Chromium	0.85	J	10	0.66	ug/L		12/28/12 12:00	12/31/12 20:19	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:19	1
Selenium	9.6	J	15	4.9	ug/L		12/28/12 12:00	12/31/12 20:19	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:19	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:52	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 7470A - Mercury (CVAA)

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:29	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:31	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid
Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19		17	5.5	ug/Kg	☼	01/02/13 11:30	01/02/13 18:57	1

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid
Percent Solids: 91.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20		20	6.6	ug/Kg	☼	01/02/13 11:30	01/02/13 19:08	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.7	ug/Kg	☼	01/02/13 11:30	01/02/13 19:11	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	580		18	6.0	ug/Kg	☼	01/02/13 11:30	01/02/13 19:13	1

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid
Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	20	6.4	ug/Kg	☼	01/02/13 11:30	01/02/13 19:15	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 7471A - Mercury (CVAA)

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.0	J	17	5.6	ug/Kg	☼	01/02/13 11:30	01/02/13 19:18	1

General Chemistry

Client Sample ID: SW-01-0
Date Collected: 12/26/12 08:03
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	90		0.10	0.10	%			12/28/12 14:26	1

Client Sample ID: SW-01-4
Date Collected: 12/26/12 08:12
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	91		0.10	0.10	%			12/28/12 14:26	1

Client Sample ID: SW-01-11
Date Collected: 12/26/12 08:19
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	98		0.10	0.10	%			12/28/12 14:26	1

Client Sample ID: SW-01-GW
Date Collected: 12/26/12 09:45
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		8.7	2.4	mg/L		01/04/13 13:00	01/04/13 16:24	1
Total Suspended Solids	1400		40	11	mg/L			12/28/12 16:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.05	HF	0.100	0.100	SU			12/29/12 12:14	1
Temperature	20.0	HF	1.00	1.00	Degrees C			12/29/12 12:14	1

Client Sample ID: NE-02-0
Date Collected: 12/26/12 11:14
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	92		0.10	0.10	%			12/28/12 14:26	1

Client Sample ID: NE-02-4
Date Collected: 12/26/12 11:26
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	92		0.10	0.10	%			12/28/12 14:26	1

TestAmerica Denver

Client Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

General Chemistry

Client Sample ID: NE-02-9
Date Collected: 12/26/12 11:32
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.4		0.10	0.10	%			12/28/12 14:26	1
Percent Solids	97		0.10	0.10	%			12/28/12 14:26	1

Client Sample ID: NE-02-GW
Date Collected: 12/26/12 13:05
Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		9.1	2.5	mg/L		01/04/13 13:00	01/04/13 16:24	1
Total Suspended Solids	1000		40	11	mg/L			12/28/12 16:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.24	HF	0.100	0.100	SU			12/29/12 12:15	1
Temperature	20.0	HF	1.00	1.00	Degrees C			12/29/12 12:15	1

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-153919/1-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Benzene	ND		5.0	0.47	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Cyclohexane	ND		5.0	0.40	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Bromomethane	ND		10	0.50	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Bromoform	ND		5.0	0.23	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloroethane	ND		10	0.89	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloroform	ND		10	0.29	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
2-Hexanone	ND		20	4.9	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Chloromethane	ND		10	0.77	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methyl acetate	ND		10	2.8	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Styrene	ND		5.0	0.63	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Toluene	ND		5.0	0.69	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/27/12 06:00	12/27/12 11:35	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-153919/1-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/27/12 06:00	12/27/12 11:35	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/27/12 06:00	12/27/12 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 140	12/27/12 06:00	12/27/12 11:35	1
Toluene-d8 (Surr)	111		80 - 126	12/27/12 06:00	12/27/12 11:35	1
4-Bromofluorobenzene (Surr)	107		76 - 127	12/27/12 06:00	12/27/12 11:35	1
Dibromofluoromethane (Surr)	92		75 - 121	12/27/12 06:00	12/27/12 11:35	1

Lab Sample ID: LCS 280-153919/2-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	256		ug/Kg		128	65 - 150
2-Butanone (MEK)	200	305		ug/Kg		152	45 - 177
Benzene	50.0	47.9		ug/Kg		96	75 - 135
Chlorobenzene	50.0	50.5		ug/Kg		101	78 - 135
Carbon disulfide	50.0	39.8		ug/Kg		80	45 - 150
Carbon tetrachloride	50.0	48.7		ug/Kg		97	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	59.7		ug/Kg		119	66 - 150
Bromomethane	50.0	41.0		ug/Kg		82	52 - 135
Bromoform	50.0	51.8		ug/Kg		104	77 - 135
Chloroethane	50.0	37.7		ug/Kg		75	51 - 145
Chloroform	50.0	45.2		ug/Kg		90	73 - 123
Chlorobromomethane	50.0	45.3		ug/Kg		91	74 - 135
Dichlorobromomethane	50.0	51.5		ug/Kg		103	73 - 135
Chlorodibromomethane	50.0	58.2		ug/Kg		116	77 - 135
Isopropylbenzene	50.0	53.5		ug/Kg		107	74 - 137
2-Hexanone	200	255		ug/Kg		127	67 - 150
Chloromethane	50.0	47.0		ug/Kg		94	41 - 138
Dichlorodifluoromethane	50.0	38.2		ug/Kg		76	32 - 152
trans-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	77 - 135
trans-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	71 - 135
Methylene Chloride	50.0	46.9		ug/Kg		94	76 - 136
Methyl tert-butyl ether	50.0	41.5		ug/Kg		83	71 - 141
4-Methyl-2-pentanone (MIBK)	200	242		ug/Kg		121	69 - 150
Styrene	50.0	48.7		ug/Kg		97	76 - 135
1,1,1,2-Tetrachloroethane	50.0	57.3		ug/Kg		115	65 - 135
1,2,3-Trichlorobenzene	50.0	47.4		ug/Kg		95	62 - 135
1,2,4-Trichlorobenzene	50.0	47.6		ug/Kg		95	65 - 135
Toluene	50.0	48.5		ug/Kg		97	77 - 122
1,1,1-Trichloroethane	50.0	45.5		ug/Kg		91	70 - 135
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	78 - 135
Trichloroethene	50.0	48.4		ug/Kg		97	77 - 135
Vinyl chloride	50.0	38.0		ug/Kg		76	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-153919/2-A

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	99.6		ug/Kg		100	77 - 135
o-Xylene	50.0	47.9		ug/Kg		96	75 - 135
Tetrachloroethene	50.0	53.4		ug/Kg		107	76 - 135
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	73 - 135
1,3-Dichlorobenzene	50.0	50.7		ug/Kg		101	69 - 135
1,4-Dichlorobenzene	50.0	50.5		ug/Kg		101	73 - 135
cis-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	76 - 135
cis-1,3-Dichloropropene	50.0	61.1		ug/Kg		122	71 - 135
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	70 - 135
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	79 - 135
1,2-Dichloroethane	50.0	48.4		ug/Kg		97	69 - 135
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	72 - 121
Ethylbenzene	50.0	50.0		ug/Kg		100	73 - 125
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	76 - 135
Trichlorofluoromethane	50.0	36.5		ug/Kg		73	48 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

Lab Sample ID: 280-37114-C-1-B MS

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		215	256		ug/Kg	☼	104	65 - 150
2-Butanone (MEK)	ND		215	291		ug/Kg	☼	135	45 - 177
Benzene	ND		53.8	48.8		ug/Kg	☼	91	75 - 135
Chlorobenzene	ND		53.8	49.3		ug/Kg	☼	92	78 - 135
Carbon disulfide	ND		53.8	39.7		ug/Kg	☼	74	45 - 150
Carbon tetrachloride	ND		53.8	47.6		ug/Kg	☼	88	69 - 138
1,2-Dibromo-3-Chloropropane	ND		53.8	56.1		ug/Kg	☼	104	66 - 150
Bromomethane	ND		53.8	42.9		ug/Kg	☼	80	52 - 135
Bromoform	ND		53.8	49.1		ug/Kg	☼	91	77 - 135
Chloroethane	ND		53.8	39.6		ug/Kg	☼	74	51 - 145
Chloroform	ND		53.8	47.3		ug/Kg	☼	88	73 - 123
Chlorobromomethane	ND		53.8	47.2		ug/Kg	☼	88	74 - 135
Dichlorobromomethane	ND		53.8	52.8		ug/Kg	☼	98	73 - 135
Chlorodibromomethane	ND		53.8	61.2		ug/Kg	☼	114	77 - 135
Isopropylbenzene	ND		53.8	56.1		ug/Kg	☼	104	74 - 137
2-Hexanone	ND		215	234		ug/Kg	☼	109	67 - 150
Chloromethane	ND		53.8	46.2		ug/Kg	☼	86	41 - 138
Dichlorodifluoromethane	ND		53.8	39.4		ug/Kg	☼	73	32 - 152
trans-1,2-Dichloroethene	ND		53.8	44.7		ug/Kg	☼	83	77 - 135
trans-1,3-Dichloropropene	ND		53.8	54.0		ug/Kg	☼	100	71 - 135
Methylene Chloride	ND		53.8	48.5		ug/Kg	☼	90	76 - 136

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37114-C-1-B MS

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	ND		53.8	39.9		ug/Kg	*	74	71 - 141
4-Methyl-2-pentanone (MIBK)	ND		215	229		ug/Kg	*	106	69 - 150
Styrene	ND		53.8	46.4		ug/Kg	*	86	76 - 135
1,1,1,2-Tetrachloroethane	ND		53.8	2.79	J F	ug/Kg	*	5	65 - 135
1,2,3-Trichlorobenzene	ND		53.8	24.9	F	ug/Kg	*	46	62 - 135
1,2,4-Trichlorobenzene	ND		53.8	28.3	F	ug/Kg	*	53	65 - 135
Toluene	ND		53.8	48.1		ug/Kg	*	89	77 - 122
1,1,1-Trichloroethane	ND		53.8	45.4		ug/Kg	*	84	70 - 135
1,1,2-Trichloroethane	ND		53.8	47.4		ug/Kg	*	88	78 - 135
Trichloroethene	ND		53.8	90.0	F	ug/Kg	*	167	77 - 135
Vinyl chloride	ND		53.8	39.9		ug/Kg	*	74	43 - 145
m-Xylene & p-Xylene	1.5	J	108	95.1		ug/Kg	*	87	77 - 135
o-Xylene	0.89	J	53.8	45.8		ug/Kg	*	83	75 - 135
Tetrachloroethene	2900	E	53.8	2210	E 4	ug/Kg	*	-1316	76 - 135
1,2-Dichlorobenzene	ND		53.8	44.8		ug/Kg	*	83	73 - 135
1,3-Dichlorobenzene	ND		53.8	47.6		ug/Kg	*	88	69 - 135
1,4-Dichlorobenzene	ND		53.8	48.0		ug/Kg	*	89	73 - 135
cis-1,2-Dichloroethene	ND		53.8	45.6		ug/Kg	*	85	76 - 135
cis-1,3-Dichloropropene	ND		53.8	62.6		ug/Kg	*	116	71 - 135
1,1-Dichloroethane	ND		53.8	47.2		ug/Kg	*	88	70 - 135
1,1-Dichloroethene	ND		53.8	54.9		ug/Kg	*	102	79 - 135
1,2-Dichloroethane	ND		53.8	50.7		ug/Kg	*	94	69 - 135
1,2-Dichloropropane	ND		53.8	52.3		ug/Kg	*	97	72 - 121
Ethylbenzene	ND		53.8	48.1		ug/Kg	*	86	73 - 125
1,2-Dibromoethane	ND		53.8	54.6		ug/Kg	*	101	76 - 135
Trichlorofluoromethane	ND		53.8	36.9		ug/Kg	*	69	48 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		58 - 140
Toluene-d8 (Surr)	107		80 - 126
4-Bromofluorobenzene (Surr)	117		76 - 127
Dibromofluoromethane (Surr)	67	X	75 - 121

Lab Sample ID: 280-37114-C-1-C MSD

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	ND		241	302		ug/Kg	*	112	65 - 150	17	28
2-Butanone (MEK)	ND		241	342		ug/Kg	*	142	45 - 177	16	32
Benzene	ND		60.1	60.3	F	ug/Kg	*	100	75 - 135	21	20
Chlorobenzene	ND		60.1	59.7		ug/Kg	*	99	78 - 135	19	20
Carbon disulfide	ND		60.1	49.8		ug/Kg	*	83	45 - 150	22	24
Carbon tetrachloride	ND		60.1	58.5	F	ug/Kg	*	97	69 - 138	21	20
1,2-Dibromo-3-Chloropropane	ND		60.1	70.5		ug/Kg	*	117	66 - 150	23	28
Bromomethane	ND		60.1	48.8		ug/Kg	*	81	52 - 135	13	22
Bromoform	ND		60.1	61.7	F	ug/Kg	*	103	77 - 135	23	20
Chloroethane	ND		60.1	44.4		ug/Kg	*	74	51 - 145	12	22

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37114-C-1-C MSD

Matrix: Solid

Analysis Batch: 153872

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 153919

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		60.1	57.9		ug/Kg	*	96	73 - 123	20	20
Chlorobromomethane	ND		60.1	58.5		ug/Kg	*	97	74 - 135	21	21
Dichlorobromomethane	ND		60.1	65.4	F	ug/Kg	*	109	73 - 135	21	20
Chlorodibromomethane	ND		60.1	76.6	F	ug/Kg	*	127	77 - 135	22	20
Isopropylbenzene	ND		60.1	68.4		ug/Kg	*	114	74 - 137	20	20
2-Hexanone	ND		241	273		ug/Kg	*	114	67 - 150	15	29
Chloromethane	ND		60.1	53.4		ug/Kg	*	89	41 - 138	14	25
Dichlorodifluoromethane	ND		60.1	43.7		ug/Kg	*	73	32 - 152	10	28
trans-1,2-Dichloroethene	ND		60.1	55.7	F	ug/Kg	*	93	77 - 135	22	20
trans-1,3-Dichloropropene	ND		60.1	67.6	F	ug/Kg	*	112	71 - 135	22	20
Methylene Chloride	ND		60.1	61.6	F	ug/Kg	*	102	76 - 136	24	21
Methyl tert-butyl ether	ND		60.1	50.1	F	ug/Kg	*	83	71 - 141	23	20
4-Methyl-2-pentanone (MIBK)	ND		241	269		ug/Kg	*	112	69 - 150	16	25
Styrene	ND		60.1	55.6		ug/Kg	*	92	76 - 135	18	20
1,1,2,2-Tetrachloroethane	ND		60.1	ND	F	ug/Kg	*	0	65 - 135	NC	21
1,2,3-Trichlorobenzene	ND		60.1	27.7	F	ug/Kg	*	46	62 - 135	11	31
1,2,4-Trichlorobenzene	ND		60.1	31.1	F	ug/Kg	*	52	65 - 135	10	26
Toluene	ND		60.1	58.7		ug/Kg	*	98	77 - 122	20	20
1,1,1-Trichloroethane	ND		60.1	56.1	F	ug/Kg	*	93	70 - 135	21	20
1,1,2-Trichloroethane	ND		60.1	57.5		ug/Kg	*	96	78 - 135	19	20
Trichloroethene	ND		60.1	109	F	ug/Kg	*	182	77 - 135	20	20
Vinyl chloride	ND		60.1	44.5		ug/Kg	*	74	43 - 145	11	24
m-Xylene & p-Xylene	1.5	J	120	114		ug/Kg	*	93	77 - 135	18	20
o-Xylene	0.89	J	60.1	55.1		ug/Kg	*	90	75 - 135	18	20
Tetrachloroethene	2900	E	60.1	2820	E 4 F	ug/Kg	*	-178	76 - 135	24	20
1,2-Dichlorobenzene	ND		60.1	52.8		ug/Kg	*	88	73 - 135	16	20
1,3-Dichlorobenzene	ND		60.1	55.8		ug/Kg	*	93	69 - 135	16	20
1,4-Dichlorobenzene	ND		60.1	56.5		ug/Kg	*	94	73 - 135	16	22
cis-1,2-Dichloroethene	ND		60.1	56.5	F	ug/Kg	*	94	76 - 135	21	20
cis-1,3-Dichloropropene	ND		60.1	78.8	F	ug/Kg	*	131	71 - 135	23	20
1,1-Dichloroethane	ND		60.1	58.2	F	ug/Kg	*	97	70 - 135	21	20
1,1-Dichloroethene	ND		60.1	70.1	F	ug/Kg	*	117	79 - 135	24	20
1,2-Dichloroethane	ND		60.1	62.7	F	ug/Kg	*	104	69 - 135	21	20
1,2-Dichloropropane	ND		60.1	65.3	F	ug/Kg	*	109	72 - 121	22	20
Ethylbenzene	ND		60.1	57.8		ug/Kg	*	93	73 - 125	18	20
1,2-Dibromoethane	ND		60.1	69.4	F	ug/Kg	*	115	76 - 135	24	20
Trichlorofluoromethane	ND		60.1	41.1		ug/Kg	*	68	48 - 150	11	33

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		58 - 140
Toluene-d8 (Surr)	107		80 - 126
4-Bromofluorobenzene (Surr)	121		76 - 127
Dibromofluoromethane (Surr)	61	X	75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154297/1-A

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Benzene	ND		5.0	0.47	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Cyclohexane	0.480	J	5.0	0.40	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Bromomethane	ND		10	0.50	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Bromoform	ND		5.0	0.23	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chloroethane	ND		10	0.89	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chloroform	ND		10	0.29	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
2-Hexanone	ND		20	4.9	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Chloromethane	ND		10	0.77	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Methyl acetate	ND		10	2.8	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Methylcyclohexane	0.967	J	5.0	0.42	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Styrene	ND		5.0	0.63	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Toluene	ND		5.0	0.69	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Trichloroethene	ND		5.0	0.23	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
o-Xylene	ND		2.5	0.61	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		12/31/12 06:00	12/31/12 11:30	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154297/1-A

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		12/31/12 06:00	12/31/12 11:30	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		12/31/12 06:00	12/31/12 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 140	12/31/12 06:00	12/31/12 11:30	1
Toluene-d8 (Surr)	109		80 - 126	12/31/12 06:00	12/31/12 11:30	1
4-Bromofluorobenzene (Surr)	102		76 - 127	12/31/12 06:00	12/31/12 11:30	1
Dibromofluoromethane (Surr)	95		75 - 121	12/31/12 06:00	12/31/12 11:30	1

Lab Sample ID: LCS 280-154297/2-A

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/Kg		109	65 - 150
2-Butanone (MEK)	200	255		ug/Kg		127	45 - 177
Benzene	50.0	48.4		ug/Kg		97	75 - 135
Chlorobenzene	50.0	50.8		ug/Kg		102	78 - 135
Carbon disulfide	50.0	39.5		ug/Kg		79	45 - 150
Carbon tetrachloride	50.0	53.8		ug/Kg		108	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	59.6		ug/Kg		119	66 - 150
Bromomethane	50.0	28.2		ug/Kg		56	52 - 135
Bromoform	50.0	54.5		ug/Kg		109	77 - 135
Chloroethane	50.0	25.9		ug/Kg		52	51 - 145
Chloroform	50.0	47.8		ug/Kg		96	73 - 123
Chlorobromomethane	50.0	48.3		ug/Kg		97	74 - 135
Dichlorobromomethane	50.0	54.4		ug/Kg		109	73 - 135
Chlorodibromomethane	50.0	60.3		ug/Kg		121	77 - 135
Isopropylbenzene	50.0	53.2		ug/Kg		106	74 - 137
2-Hexanone	200	201		ug/Kg		101	67 - 150
Chloromethane	50.0	29.6		ug/Kg		59	41 - 138
Dichlorodifluoromethane	50.0	27.2		ug/Kg		54	32 - 152
trans-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	77 - 135
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	71 - 135
Methylene Chloride	50.0	47.9		ug/Kg		96	76 - 136
Methyl tert-butyl ether	50.0	44.7		ug/Kg		89	71 - 141
4-Methyl-2-pentanone (MIBK)	200	203		ug/Kg		101	69 - 150
Styrene	50.0	48.1		ug/Kg		96	76 - 135
1,1,1,2-Tetrachloroethane	50.0	54.7		ug/Kg		109	65 - 135
1,2,3-Trichlorobenzene	50.0	48.8		ug/Kg		98	62 - 135
1,2,4-Trichlorobenzene	50.0	49.2		ug/Kg		98	65 - 135
Toluene	50.0	49.5		ug/Kg		99	77 - 122
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	70 - 135
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	78 - 135
Trichloroethene	50.0	50.0		ug/Kg		100	77 - 135
Vinyl chloride	50.0	25.7		ug/Kg		51	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154297/2-A

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	99.9		ug/Kg		100	77 - 135
o-Xylene	50.0	48.5		ug/Kg		97	75 - 135
Tetrachloroethene	50.0	56.0		ug/Kg		112	76 - 135
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	73 - 135
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	69 - 135
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	73 - 135
cis-1,2-Dichloroethene	50.0	45.5		ug/Kg		91	76 - 135
cis-1,3-Dichloropropene	50.0	60.4		ug/Kg		121	71 - 135
1,1-Dichloroethane	50.0	46.3		ug/Kg		93	70 - 135
1,1-Dichloroethene	50.0	56.7		ug/Kg		113	79 - 135
1,2-Dichloroethane	50.0	52.2		ug/Kg		104	69 - 135
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	72 - 121
Ethylbenzene	50.0	50.4		ug/Kg		101	73 - 125
1,2-Dibromoethane	50.0	54.2		ug/Kg		108	76 - 135
Trichlorofluoromethane	50.0	29.4		ug/Kg		59	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		58 - 140
Toluene-d8 (Surr)	107		80 - 126
4-Bromofluorobenzene (Surr)	102		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121

Lab Sample ID: 280-37374-1 MS

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		252	167		ug/Kg	☼	66	65 - 150
2-Butanone (MEK)	ND		252	928	F	ug/Kg	☼	369	45 - 177
Benzene	ND		62.9	47.2		ug/Kg	☼	75	75 - 135
Chlorobenzene	ND		62.9	46.0	F	ug/Kg	☼	73	78 - 135
Carbon disulfide	ND		62.9	37.5		ug/Kg	☼	60	45 - 150
Carbon tetrachloride	ND		62.9	45.4		ug/Kg	☼	72	69 - 138
1,2-Dibromo-3-Chloropropane	ND		62.9	55.0		ug/Kg	☼	87	66 - 150
Bromomethane	ND		62.9	22.2	F	ug/Kg	☼	35	52 - 135
Bromoform	ND		62.9	46.2	F	ug/Kg	☼	73	77 - 135
Chloroethane	ND		62.9	23.9	F	ug/Kg	☼	38	51 - 145
Chloroform	ND		62.9	45.9		ug/Kg	☼	73	73 - 123
Chlorobromomethane	ND		62.9	50.7		ug/Kg	☼	81	74 - 135
Dichlorobromomethane	ND		62.9	50.3		ug/Kg	☼	80	73 - 135
Chlorodibromomethane	ND		62.9	54.9		ug/Kg	☼	87	77 - 135
Isopropylbenzene	ND		62.9	49.0		ug/Kg	☼	78	74 - 137
2-Hexanone	ND		252	162	F	ug/Kg	☼	64	67 - 150
Chloromethane	ND		62.9	26.7		ug/Kg	☼	42	41 - 138
Dichlorodifluoromethane	ND		62.9	23.8		ug/Kg	☼	38	32 - 152
trans-1,2-Dichloroethene	ND		62.9	43.9	F	ug/Kg	☼	70	77 - 135
trans-1,3-Dichloropropene	ND		62.9	47.9		ug/Kg	☼	76	71 - 135
Methylene Chloride	ND		62.9	48.5		ug/Kg	☼	77	76 - 136

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37374-1 MS

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Methyl tert-butyl ether	ND		62.9	44.0	F	ug/Kg	*	70	71 - 141	
4-Methyl-2-pentanone (MIBK)	ND		252	186		ug/Kg	*	74	69 - 150	
Styrene	ND		62.9	40.8	F	ug/Kg	*	65	76 - 135	
1,1,1,2-Tetrachloroethane	ND		62.9	51.3		ug/Kg	*	82	65 - 135	
1,2,3-Trichlorobenzene	ND		62.9	27.3	F	ug/Kg	*	43	62 - 135	
1,2,4-Trichlorobenzene	ND		62.9	28.7	F	ug/Kg	*	46	65 - 135	
Toluene	ND		62.9	46.7	F	ug/Kg	*	74	77 - 122	
1,1,1-Trichloroethane	ND		62.9	41.6	F	ug/Kg	*	66	70 - 135	
1,1,2-Trichloroethane	ND		62.9	51.0		ug/Kg	*	81	78 - 135	
Trichloroethene	ND		62.9	50.5		ug/Kg	*	80	77 - 135	
Vinyl chloride	ND		62.9	23.6	F	ug/Kg	*	38	43 - 145	
m-Xylene & p-Xylene	ND		126	88.1	F	ug/Kg	*	70	77 - 135	
o-Xylene	ND		62.9	43.6	F	ug/Kg	*	69	75 - 135	
Tetrachloroethene	ND		62.9	53.0		ug/Kg	*	84	76 - 135	
1,2-Dichlorobenzene	ND		62.9	41.7	F	ug/Kg	*	66	73 - 135	
1,3-Dichlorobenzene	ND		62.9	42.3	F	ug/Kg	*	67	69 - 135	
1,4-Dichlorobenzene	ND		62.9	41.4	F	ug/Kg	*	66	73 - 135	
cis-1,2-Dichloroethene	ND		62.9	45.5	F	ug/Kg	*	72	76 - 135	
cis-1,3-Dichloropropene	ND		62.9	53.3		ug/Kg	*	85	71 - 135	
1,1-Dichloroethane	ND		62.9	44.8		ug/Kg	*	71	70 - 135	
1,1-Dichloroethene	ND		62.9	56.7		ug/Kg	*	90	79 - 135	
1,2-Dichloroethane	ND		62.9	49.1		ug/Kg	*	78	69 - 135	
1,2-Dichloropropane	ND		62.9	49.3		ug/Kg	*	78	72 - 121	
Ethylbenzene	ND		62.9	45.1	F	ug/Kg	*	72	73 - 125	
1,2-Dibromoethane	ND		62.9	53.6		ug/Kg	*	85	76 - 135	
Trichlorofluoromethane	ND		62.9	24.7	F	ug/Kg	*	39	48 - 150	

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	102		76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

Lab Sample ID: 280-37374-1 MSD

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acetone	ND		216	166		ug/Kg	*	77	65 - 150	1	28	
2-Butanone (MEK)	ND		216	896	E F	ug/Kg	*	415	45 - 177	4	32	
Benzene	ND		54.0	43.4		ug/Kg	*	80	75 - 135	8	20	
Chlorobenzene	ND		54.0	43.9		ug/Kg	*	81	78 - 135	5	20	
Carbon disulfide	ND		54.0	35.2		ug/Kg	*	65	45 - 150	6	24	
Carbon tetrachloride	ND		54.0	42.3		ug/Kg	*	78	69 - 138	7	20	
1,2-Dibromo-3-Chloropropane	ND		54.0	49.6		ug/Kg	*	92	66 - 150	10	28	
Bromomethane	ND		54.0	21.8	F	ug/Kg	*	40	52 - 135	2	22	
Bromoform	ND		54.0	43.9		ug/Kg	*	81	77 - 135	5	20	
Chloroethane	ND		54.0	23.7	F	ug/Kg	*	44	51 - 145	1	22	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37374-1 MSD

Matrix: Solid

Analysis Batch: 154301

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154297

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		54.0	42.2		ug/Kg	*	78	73 - 123	8	20
Chlorobromomethane	ND		54.0	46.7		ug/Kg	*	87	74 - 135	8	21
Dichlorobromomethane	ND		54.0	46.8		ug/Kg	*	87	73 - 135	7	20
Chlorodibromomethane	ND		54.0	51.7		ug/Kg	*	96	77 - 135	6	20
Isopropylbenzene	ND		54.0	45.8		ug/Kg	*	85	74 - 137	7	20
2-Hexanone	ND		216	166		ug/Kg	*	77	67 - 150	3	29
Chloromethane	ND		54.0	24.3		ug/Kg	*	45	41 - 138	9	25
Dichlorodifluoromethane	ND		54.0	23.1		ug/Kg	*	43	32 - 152	3	28
trans-1,2-Dichloroethene	ND		54.0	39.4	F	ug/Kg	*	73	77 - 135	11	20
trans-1,3-Dichloropropene	ND		54.0	45.0		ug/Kg	*	83	71 - 135	6	20
Methylene Chloride	ND		54.0	44.3		ug/Kg	*	82	76 - 136	9	21
Methyl tert-butyl ether	ND		54.0	40.6		ug/Kg	*	75	71 - 141	8	20
4-Methyl-2-pentanone (MIBK)	ND		216	190		ug/Kg	*	88	69 - 150	2	25
Styrene	ND		54.0	38.9	F	ug/Kg	*	72	76 - 135	5	20
1,1,2,2-Tetrachloroethane	ND		54.0	47.0		ug/Kg	*	87	65 - 135	9	21
1,2,3-Trichlorobenzene	ND		54.0	25.5	F	ug/Kg	*	47	62 - 135	7	31
1,2,4-Trichlorobenzene	ND		54.0	27.5	F	ug/Kg	*	51	65 - 135	4	26
Toluene	ND		54.0	43.9		ug/Kg	*	81	77 - 122	6	20
1,1,1-Trichloroethane	ND		54.0	38.2		ug/Kg	*	71	70 - 135	8	20
1,1,2-Trichloroethane	ND		54.0	47.0		ug/Kg	*	87	78 - 135	8	20
Trichloroethene	ND		54.0	47.1		ug/Kg	*	87	77 - 135	7	20
Vinyl chloride	ND		54.0	20.9	F	ug/Kg	*	39	43 - 145	12	24
m-Xylene & p-Xylene	ND		108	84.0		ug/Kg	*	78	77 - 135	5	20
o-Xylene	ND		54.0	41.0		ug/Kg	*	76	75 - 135	6	20
Tetrachloroethene	ND		54.0	50.0		ug/Kg	*	93	76 - 135	6	20
1,2-Dichlorobenzene	ND		54.0	39.7		ug/Kg	*	74	73 - 135	5	20
1,3-Dichlorobenzene	ND		54.0	40.3		ug/Kg	*	75	69 - 135	5	20
1,4-Dichlorobenzene	ND		54.0	39.8		ug/Kg	*	74	73 - 135	4	22
cis-1,2-Dichloroethene	ND		54.0	41.8		ug/Kg	*	77	76 - 135	8	20
cis-1,3-Dichloropropene	ND		54.0	50.5		ug/Kg	*	93	71 - 135	5	20
1,1-Dichloroethane	ND		54.0	41.0		ug/Kg	*	76	70 - 135	9	20
1,1-Dichloroethene	ND		54.0	51.0		ug/Kg	*	94	79 - 135	11	20
1,2-Dichloroethane	ND		54.0	44.9		ug/Kg	*	83	69 - 135	9	20
1,2-Dichloropropane	ND		54.0	45.2		ug/Kg	*	84	72 - 121	9	20
Ethylbenzene	ND		54.0	42.7		ug/Kg	*	79	73 - 125	6	20
1,2-Dibromoethane	ND		54.0	49.5		ug/Kg	*	92	76 - 135	8	20
Trichlorofluoromethane	ND		54.0	24.7	F	ug/Kg	*	46	48 - 150	0	33

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	105		80 - 126
4-Bromofluorobenzene (Surr)	102		76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154317/5

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			01/02/13 08:27	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			01/02/13 08:27	1
Benzene	ND		1.0	0.16	ug/L			01/02/13 08:27	1
Chlorobenzene	ND		1.0	0.17	ug/L			01/02/13 08:27	1
Carbon disulfide	ND		2.0	0.45	ug/L			01/02/13 08:27	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/02/13 08:27	1
Cyclohexane	ND		2.0	0.28	ug/L			01/02/13 08:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			01/02/13 08:27	1
Bromomethane	ND		2.0	0.21	ug/L			01/02/13 08:27	1
Bromoform	ND		1.0	0.19	ug/L			01/02/13 08:27	1
Chloroethane	ND		2.0	0.41	ug/L			01/02/13 08:27	1
Chloroform	ND		1.0	0.16	ug/L			01/02/13 08:27	1
Chlorobromomethane	ND		1.0	0.10	ug/L			01/02/13 08:27	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			01/02/13 08:27	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			01/02/13 08:27	1
Isopropylbenzene	ND		1.0	0.19	ug/L			01/02/13 08:27	1
2-Hexanone	ND		5.0	1.7	ug/L			01/02/13 08:27	1
Chloromethane	ND		2.0	0.30	ug/L			01/02/13 08:27	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			01/02/13 08:27	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 08:27	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			01/02/13 08:27	1
Methylene Chloride	ND		2.0	0.32	ug/L			01/02/13 08:27	1
Methyl acetate	ND		5.0	1.6	ug/L			01/02/13 08:27	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			01/02/13 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			01/02/13 08:27	1
Methylcyclohexane	ND		1.0	0.36	ug/L			01/02/13 08:27	1
Styrene	ND		1.0	0.17	ug/L			01/02/13 08:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/02/13 08:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 08:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			01/02/13 08:27	1
Toluene	ND		1.0	0.17	ug/L			01/02/13 08:27	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			01/02/13 08:27	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			01/02/13 08:27	1
Trichloroethene	ND		1.0	0.16	ug/L			01/02/13 08:27	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			01/02/13 08:27	1
Vinyl chloride	ND		1.0	0.10	ug/L			01/02/13 08:27	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			01/02/13 08:27	1
o-Xylene	ND		1.0	0.19	ug/L			01/02/13 08:27	1
Tetrachloroethene	ND		1.0	0.20	ug/L			01/02/13 08:27	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/02/13 08:27	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			01/02/13 08:27	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			01/02/13 08:27	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			01/02/13 08:27	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			01/02/13 08:27	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			01/02/13 08:27	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			01/02/13 08:27	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			01/02/13 08:27	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			01/02/13 08:27	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154317/5

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		200	57	ug/L			01/02/13 08:27	1
Ethylbenzene	ND		1.0	0.16	ug/L			01/02/13 08:27	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			01/02/13 08:27	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			01/02/13 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 127		01/02/13 08:27	1
Toluene-d8 (Surr)	102		80 - 125		01/02/13 08:27	1
4-Bromofluorobenzene (Surr)	106		78 - 120		01/02/13 08:27	1
Dibromofluoromethane (Surr)	85		77 - 120		01/02/13 08:27	1

Lab Sample ID: LCS 280-154317/4

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	21.8		ug/L		109	50 - 156
2-Butanone (MEK)	20.0	22.7		ug/L		114	44 - 150
Benzene	5.00	4.74		ug/L		95	74 - 135
Chlorobenzene	5.00	4.78		ug/L		96	76 - 135
Carbon disulfide	5.00	4.01		ug/L		80	34 - 150
Carbon tetrachloride	5.00	4.94		ug/L		99	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.24	J	ug/L		85	65 - 150
Bromomethane	5.00	5.04		ug/L		101	38 - 150
Bromoform	5.00	3.90		ug/L		78	62 - 135
Chloroethane	5.00	5.02		ug/L		100	46 - 147
Chloroform	5.00	4.83		ug/L		97	76 - 120
Chlorobromomethane	5.00	4.80		ug/L		96	70 - 135
Dichlorobromomethane	5.00	4.69		ug/L		94	73 - 135
Chlorodibromomethane	5.00	4.52		ug/L		90	68 - 135
Isopropylbenzene	5.00	4.82		ug/L		96	75 - 135
2-Hexanone	20.0	18.2		ug/L		91	47 - 150
Chloromethane	5.00	4.75		ug/L		95	34 - 145
Dichlorodifluoromethane	5.00	4.97		ug/L		99	28 - 152
trans-1,2-Dichloroethene	5.00	4.85		ug/L		97	75 - 135
trans-1,3-Dichloropropene	5.00	4.49		ug/L		90	68 - 135
Methylene Chloride	5.00	4.35		ug/L		87	54 - 141
Methyl tert-butyl ether	5.00	4.42	J	ug/L		88	46 - 135
4-Methyl-2-pentanone (MIBK)	20.0	17.7		ug/L		88	53 - 150
Styrene	5.00	4.54		ug/L		91	68 - 135
1,1,2,2-Tetrachloroethane	5.00	4.36		ug/L		87	66 - 135
1,2,3-Trichlorobenzene	5.00	4.65		ug/L		93	60 - 135
1,2,4-Trichlorobenzene	5.00	4.76		ug/L		95	64 - 135
Toluene	5.00	4.65		ug/L		93	73 - 120
1,1,1-Trichloroethane	5.00	5.01		ug/L		100	70 - 135
1,1,2-Trichloroethane	5.00	4.53		ug/L		91	73 - 135
Trichloroethene	5.00	4.77		ug/L		95	73 - 135
Vinyl chloride	5.00	5.09		ug/L		102	40 - 144

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154317/4

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	74 - 135
o-Xylene	5.00	4.67		ug/L		93	73 - 135
Tetrachloroethene	5.00	4.92		ug/L		98	70 - 135
1,2-Dichlorobenzene	5.00	4.70		ug/L		94	75 - 135
1,3-Dichlorobenzene	5.00	4.82		ug/L		96	74 - 135
1,4-Dichlorobenzene	5.00	4.86		ug/L		97	75 - 135
cis-1,2-Dichloroethene	5.00	4.69		ug/L		94	73 - 135
cis-1,3-Dichloropropene	5.00	4.54		ug/L		91	66 - 135
1,1-Dichloroethane	5.00	4.72		ug/L		94	75 - 135
1,1-Dichloroethene	5.00	5.45		ug/L		109	71 - 136
1,2-Dichloroethane	5.00	4.83		ug/L		97	70 - 135
1,2-Dichloropropane	5.00	4.45		ug/L		89	71 - 120
Ethylbenzene	5.00	4.90		ug/L		98	72 - 120
1,2-Dibromoethane	5.00	4.65		ug/L		93	71 - 135
Trichlorofluoromethane	5.00	4.95		ug/L		99	47 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	85		77 - 120

Lab Sample ID: 280-37417-I-1 MS

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		20.0	25.3		ug/L		126	50 - 156
2-Butanone (MEK)	ND		20.0	21.2		ug/L		106	44 - 150
Benzene	4.5		5.00	8.95		ug/L		89	74 - 135
Chlorobenzene	1.2		5.00	5.93		ug/L		95	76 - 135
Carbon disulfide	ND		5.00	3.76		ug/L		75	34 - 150
Carbon tetrachloride	ND		5.00	5.13		ug/L		103	67 - 135
1,2-Dibromo-3-Chloropropane	ND		5.00	4.54	J	ug/L		91	65 - 150
Bromomethane	ND		5.00	4.95		ug/L		99	38 - 150
Bromoform	ND		5.00	4.06		ug/L		81	62 - 135
Chloroethane	ND		5.00	5.28		ug/L		106	46 - 147
Chloroform	ND		5.00	4.41		ug/L		88	76 - 120
Chlorobromomethane	ND		5.00	4.50		ug/L		90	70 - 135
Dichlorobromomethane	ND		5.00	4.62		ug/L		92	73 - 135
Chlorodibromomethane	ND		5.00	4.56		ug/L		91	68 - 135
Isopropylbenzene	2.9		5.00	7.86		ug/L		99	75 - 135
2-Hexanone	ND		20.0	67.0	F	ug/L		335	47 - 150
Chloromethane	ND		5.00	4.67		ug/L		93	34 - 145
Dichlorodifluoromethane	ND		5.00	5.38		ug/L		108	28 - 152
trans-1,2-Dichloroethene	0.17	J	5.00	5.10		ug/L		99	75 - 135
trans-1,3-Dichloropropene	ND		5.00	4.31		ug/L		86	68 - 135
Methylene Chloride	ND		5.00	3.82		ug/L		76	54 - 141

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37417-I-1 MS

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	0.69	J	5.00	5.11		ug/L		88	46 - 135
4-Methyl-2-pentanone (MIBK)	ND		20.0	17.8		ug/L		89	53 - 150
Styrene	ND		5.00	4.82		ug/L		96	68 - 135
1,1,2,2-Tetrachloroethane	ND		5.00	4.49		ug/L		90	66 - 135
1,2,3-Trichlorobenzene	ND		5.00	4.88		ug/L		98	60 - 135
1,2,4-Trichlorobenzene	ND		5.00	5.01		ug/L		100	64 - 135
Toluene	1.9		5.00	6.61		ug/L		94	73 - 120
1,1,1-Trichloroethane	ND		5.00	4.91		ug/L		98	70 - 135
1,1,2-Trichloroethane	ND		5.00	4.43		ug/L		89	73 - 135
Trichloroethene	ND		5.00	4.72		ug/L		94	73 - 135
Vinyl chloride	2.4		5.00	7.77		ug/L		108	40 - 144
m-Xylene & p-Xylene	5.1		10.0	14.8		ug/L		97	74 - 135
o-Xylene	4.1		5.00	8.49		ug/L		89	73 - 135
Tetrachloroethene	ND		5.00	5.05		ug/L		101	70 - 135
1,2-Dichlorobenzene	ND		5.00	4.79		ug/L		96	75 - 135
1,3-Dichlorobenzene	ND		5.00	4.87		ug/L		97	74 - 135
1,4-Dichlorobenzene	6.2		5.00	11.0		ug/L		96	75 - 135
cis-1,2-Dichloroethene	0.46	J	5.00	4.94		ug/L		90	73 - 135
cis-1,3-Dichloropropene	ND		5.00	4.51		ug/L		90	66 - 135
1,1-Dichloroethane	0.35	J	5.00	5.08		ug/L		95	75 - 135
1,1-Dichloroethene	0.69	J	5.00	6.26		ug/L		111	71 - 136
1,2-Dichloroethane	ND		5.00	5.13		ug/L		103	70 - 135
1,2-Dichloropropane	ND		5.00	4.26		ug/L		85	71 - 120
Ethylbenzene	26		5.00	31.3	4	ug/L		103	72 - 120
1,2-Dibromoethane	ND		5.00	4.58		ug/L		92	71 - 135
Trichlorofluoromethane	ND		5.00	5.20		ug/L		104	47 - 150

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	83		77 - 120

Lab Sample ID: 280-37417-I-1 MSD

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	ND		20.0	29.5		ug/L		148	50 - 156	16	41
2-Butanone (MEK)	ND		20.0	23.2		ug/L		116	44 - 150	9	32
Benzene	4.5		5.00	9.09		ug/L		92	74 - 135	2	20
Chlorobenzene	1.2		5.00	5.71		ug/L		90	76 - 135	4	20
Carbon disulfide	ND		5.00	3.95		ug/L		79	34 - 150	5	20
Carbon tetrachloride	ND		5.00	4.87		ug/L		97	67 - 135	5	21
1,2-Dibromo-3-Chloropropane	ND		5.00	4.49	J	ug/L		90	65 - 150	1	22
Bromomethane	ND		5.00	4.97		ug/L		99	38 - 150	1	24
Bromoform	ND		5.00	4.04		ug/L		81	62 - 135	1	21
Chloroethane	ND		5.00	5.53		ug/L		111	46 - 147	5	25

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37417-I-1 MSD

Matrix: Water

Analysis Batch: 154317

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		5.00	4.39		ug/L		88	76 - 120	1	20
Chlorobromomethane	ND		5.00	4.55		ug/L		91	70 - 135	1	20
Dichlorobromomethane	ND		5.00	4.55		ug/L		91	73 - 135	1	20
Chlorodibromomethane	ND		5.00	4.50		ug/L		90	68 - 135	1	20
Isopropylbenzene	2.9		5.00	7.16		ug/L		85	75 - 135	9	20
2-Hexanone	ND		20.0	74.2	F	ug/L		371	47 - 150	10	25
Chloromethane	ND		5.00	5.02		ug/L		100	34 - 145	7	24
Dichlorodifluoromethane	ND		5.00	5.79		ug/L		116	28 - 152	7	24
trans-1,2-Dichloroethene	0.17	J	5.00	4.99		ug/L		97	75 - 135	2	24
trans-1,3-Dichloropropene	ND		5.00	4.48		ug/L		90	68 - 135	4	20
Methylene Chloride	ND		5.00	3.79		ug/L		76	54 - 141	1	20
Methyl tert-butyl ether	0.69	J	5.00	5.42		ug/L		94	46 - 135	6	21
4-Methyl-2-pentanone (MIBK)	ND		20.0	19.8		ug/L		99	53 - 150	11	22
Styrene	ND		5.00	4.69		ug/L		94	68 - 135	3	20
1,1,2,2-Tetrachloroethane	ND		5.00	4.18		ug/L		84	66 - 135	7	20
1,2,3-Trichlorobenzene	ND		5.00	4.59		ug/L		92	60 - 135	6	29
1,2,4-Trichlorobenzene	ND		5.00	4.78		ug/L		96	64 - 135	5	25
Toluene	1.9		5.00	6.48		ug/L		91	73 - 120	2	20
1,1,1-Trichloroethane	ND		5.00	4.77		ug/L		95	70 - 135	3	20
1,1,2-Trichloroethane	ND		5.00	4.64		ug/L		93	73 - 135	5	21
Trichloroethene	ND		5.00	4.53		ug/L		91	73 - 135	4	20
Vinyl chloride	2.4		5.00	8.14		ug/L		116	40 - 144	5	24
m-Xylene & p-Xylene	5.1		10.0	14.0		ug/L		89	74 - 135	5	20
o-Xylene	4.1		5.00	8.25		ug/L		84	73 - 135	3	20
Tetrachloroethene	ND		5.00	4.58		ug/L		92	70 - 135	10	20
1,2-Dichlorobenzene	ND		5.00	4.62		ug/L		92	75 - 135	4	20
1,3-Dichlorobenzene	ND		5.00	4.58		ug/L		92	74 - 135	6	20
1,4-Dichlorobenzene	6.2		5.00	10.9		ug/L		93	75 - 135	1	23
cis-1,2-Dichloroethene	0.46	J	5.00	4.77		ug/L		86	73 - 135	3	20
cis-1,3-Dichloropropene	ND		5.00	4.31		ug/L		86	66 - 135	5	20
1,1-Dichloroethane	0.35	J	5.00	4.90		ug/L		91	75 - 135	4	21
1,1-Dichloroethene	0.69	J	5.00	6.17		ug/L		110	71 - 136	1	20
1,2-Dichloroethane	ND		5.00	5.21		ug/L		104	70 - 135	2	20
1,2-Dichloropropane	ND		5.00	4.23		ug/L		85	71 - 120	1	20
Ethylbenzene	26		5.00	30.1	4	ug/L		78	72 - 120	4	26
1,2-Dibromoethane	ND		5.00	4.45		ug/L		89	71 - 135	3	20
Trichlorofluoromethane	ND		5.00	5.66		ug/L		113	47 - 150	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154326/1-A

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Benzene	ND		5.0	0.47	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Cyclohexane	ND		5.0	0.40	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Bromomethane	ND		10	0.50	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Bromoform	0.337	J	5.0	0.23	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chloroethane	ND		10	0.89	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chloroform	ND		10	0.29	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
2-Hexanone	ND		20	4.9	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Chloromethane	ND		10	0.77	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Methyl acetate	ND		10	2.8	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Styrene	ND		5.0	0.63	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Toluene	ND		5.0	0.69	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Trichloroethene	ND		5.0	0.23	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
o-Xylene	ND		2.5	0.61	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		01/02/13 06:00	01/02/13 10:20	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154326/1-A

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		500	56	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		01/02/13 06:00	01/02/13 10:20	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		01/02/13 06:00	01/02/13 10:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		58 - 140	01/02/13 06:00	01/02/13 10:20	1
Toluene-d8 (Surr)	94		80 - 126	01/02/13 06:00	01/02/13 10:20	1
4-Bromofluorobenzene (Surr)	105		76 - 127	01/02/13 06:00	01/02/13 10:20	1
Dibromofluoromethane (Surr)	87		75 - 121	01/02/13 06:00	01/02/13 10:20	1

Lab Sample ID: LCS 280-154326/2-A

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	217		ug/Kg		108	65 - 150
2-Butanone (MEK)	200	239		ug/Kg		119	45 - 177
Benzene	50.0	47.7		ug/Kg		95	75 - 135
Chlorobenzene	50.0	48.0		ug/Kg		96	78 - 135
Carbon disulfide	50.0	38.7		ug/Kg		77	45 - 150
Carbon tetrachloride	50.0	51.2		ug/Kg		102	69 - 138
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/Kg		93	66 - 150
Bromomethane	50.0	36.3		ug/Kg		73	52 - 135
Bromoform	50.0	46.2		ug/Kg		92	77 - 135
Chloroethane	50.0	45.9		ug/Kg		92	51 - 145
Chloroform	50.0	48.2		ug/Kg		96	73 - 123
Chlorobromomethane	50.0	47.7		ug/Kg		95	74 - 135
Dichlorobromomethane	50.0	47.2		ug/Kg		94	73 - 135
Chlorodibromomethane	50.0	49.8		ug/Kg		100	77 - 135
Isopropylbenzene	50.0	52.0		ug/Kg		104	74 - 137
2-Hexanone	200	193		ug/Kg		96	67 - 150
Chloromethane	50.0	40.7		ug/Kg		81	41 - 138
Dichlorodifluoromethane	50.0	48.9		ug/Kg		98	32 - 152
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	77 - 135
trans-1,3-Dichloropropene	50.0	47.1		ug/Kg		94	71 - 135
Methylene Chloride	50.0	46.7		ug/Kg		93	76 - 136
Methyl tert-butyl ether	50.0	47.9		ug/Kg		96	71 - 141
4-Methyl-2-pentanone (MIBK)	200	209		ug/Kg		105	69 - 150
Styrene	50.0	49.9		ug/Kg		100	76 - 135
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	65 - 135
1,2,3-Trichlorobenzene	50.0	48.0		ug/Kg		96	62 - 135
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	65 - 135
Toluene	50.0	47.9		ug/Kg		96	77 - 122
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 135
1,1,2-Trichloroethane	50.0	46.3		ug/Kg		93	78 - 135
Trichloroethene	50.0	48.1		ug/Kg		96	77 - 135
Vinyl chloride	50.0	41.2		ug/Kg		82	43 - 145

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154326/2-A

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	97.5		ug/Kg		97	77 - 135
o-Xylene	50.0	48.6		ug/Kg		97	75 - 135
Tetrachloroethene	50.0	49.6		ug/Kg		99	76 - 135
1,2-Dichlorobenzene	50.0	48.3		ug/Kg		97	73 - 135
1,3-Dichlorobenzene	50.0	50.3		ug/Kg		101	69 - 135
1,4-Dichlorobenzene	50.0	49.7		ug/Kg		99	73 - 135
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	76 - 135
cis-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	71 - 135
1,1-Dichloroethane	50.0	47.1		ug/Kg		94	70 - 135
1,1-Dichloroethene	50.0	48.1		ug/Kg		96	79 - 135
1,2-Dichloroethane	50.0	46.4		ug/Kg		93	69 - 135
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	72 - 121
Ethylbenzene	50.0	48.1		ug/Kg		96	73 - 125
1,2-Dibromoethane	50.0	48.1		ug/Kg		96	76 - 135
Trichlorofluoromethane	50.0	48.9		ug/Kg		98	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
Toluene-d8 (Surr)	89		80 - 126
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	83		75 - 121

Lab Sample ID: 280-37354-B-1-B MS

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	8.6	J	202	206		ug/Kg	☼	98	65 - 150
2-Butanone (MEK)	ND		202	255		ug/Kg	☼	126	45 - 177
Benzene	ND		50.6	42.1		ug/Kg	☼	83	75 - 135
Chlorobenzene	ND		50.6	41.4		ug/Kg	☼	82	78 - 135
Carbon disulfide	ND		50.6	34.6		ug/Kg	☼	68	45 - 150
Carbon tetrachloride	ND		50.6	43.3		ug/Kg	☼	86	69 - 138
1,2-Dibromo-3-Chloropropane	ND		50.6	38.6		ug/Kg	☼	76	66 - 150
Bromomethane	ND		50.6	32.8		ug/Kg	☼	65	52 - 135
Bromoform	0.30	J B	50.6	40.0		ug/Kg	☼	79	77 - 135
Chloroethane	ND		50.6	41.1		ug/Kg	☼	81	51 - 145
Chloroform	ND		50.6	44.7		ug/Kg	☼	88	73 - 123
Chlorobromomethane	ND		50.6	45.4		ug/Kg	☼	90	74 - 135
Dichlorobromomethane	ND		50.6	43.4		ug/Kg	☼	86	73 - 135
Chlorodibromomethane	ND		50.6	44.9		ug/Kg	☼	89	77 - 135
Isopropylbenzene	ND		50.6	41.2		ug/Kg	☼	82	74 - 137
2-Hexanone	ND		202	173		ug/Kg	☼	86	67 - 150
Chloromethane	ND		50.6	37.3		ug/Kg	☼	74	41 - 138
Dichlorodifluoromethane	ND		50.6	40.8		ug/Kg	☼	81	32 - 152
trans-1,2-Dichloroethene	ND		50.6	42.3		ug/Kg	☼	84	77 - 135
trans-1,3-Dichloropropene	ND		50.6	42.3		ug/Kg	☼	84	71 - 135
Methylene Chloride	1.8	J	50.6	43.5		ug/Kg	☼	83	76 - 136

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37354-B-1-B MS

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	ND		50.6	45.5		ug/Kg	*	90	71 - 141
4-Methyl-2-pentanone (MIBK)	ND		202	197		ug/Kg	*	97	69 - 150
Styrene	ND		50.6	42.2		ug/Kg	*	84	76 - 135
1,1,1,2-Tetrachloroethane	ND		50.6	43.2		ug/Kg	*	85	65 - 135
1,2,3-Trichlorobenzene	ND		50.6	30.2	F	ug/Kg	*	60	62 - 135
1,2,4-Trichlorobenzene	ND		50.6	31.9	F	ug/Kg	*	63	65 - 135
Toluene	ND		50.6	42.4		ug/Kg	*	84	77 - 122
1,1,1-Trichloroethane	ND		50.6	43.6		ug/Kg	*	86	70 - 135
1,1,2-Trichloroethane	ND		50.6	42.5		ug/Kg	*	84	78 - 135
Trichloroethene	ND		50.6	42.5		ug/Kg	*	84	77 - 135
Vinyl chloride	ND		50.6	36.0		ug/Kg	*	71	43 - 145
m-Xylene & p-Xylene	ND		101	80.2		ug/Kg	*	79	77 - 135
o-Xylene	ND		50.6	42.3		ug/Kg	*	84	75 - 135
Tetrachloroethene	ND		50.6	40.9		ug/Kg	*	81	76 - 135
1,2-Dichlorobenzene	ND		50.6	38.6		ug/Kg	*	76	73 - 135
1,3-Dichlorobenzene	ND		50.6	38.7		ug/Kg	*	76	69 - 135
1,4-Dichlorobenzene	ND		50.6	39.6		ug/Kg	*	78	73 - 135
cis-1,2-Dichloroethene	ND		50.6	42.5		ug/Kg	*	84	76 - 135
cis-1,3-Dichloropropene	ND		50.6	43.2		ug/Kg	*	85	71 - 135
1,1-Dichloroethane	ND		50.6	42.5		ug/Kg	*	84	70 - 135
1,1-Dichloroethene	ND		50.6	41.8		ug/Kg	*	83	79 - 135
1,2-Dichloroethane	ND		50.6	44.3		ug/Kg	*	88	69 - 135
1,2-Dichloropropane	ND		50.6	42.5		ug/Kg	*	84	72 - 121
Ethylbenzene	ND		50.6	40.6		ug/Kg	*	80	73 - 125
1,2-Dibromoethane	ND		50.6	43.7		ug/Kg	*	86	76 - 135
Trichlorofluoromethane	ND		50.6	40.1		ug/Kg	*	79	48 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		58 - 140
Toluene-d8 (Surr)	90		80 - 126
4-Bromofluorobenzene (Surr)	101		76 - 127
Dibromofluoromethane (Surr)	87		75 - 121

Lab Sample ID: 280-37354-B-1-C MSD

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	8.6	J	214	211		ug/Kg	*	94	65 - 150	2	28
2-Butanone (MEK)	ND		214	256		ug/Kg	*	120	45 - 177	0	32
Benzene	ND		53.6	39.4	F	ug/Kg	*	74	75 - 135	6	20
Chlorobenzene	ND		53.6	35.1	F	ug/Kg	*	66	78 - 135	16	20
Carbon disulfide	ND		53.6	32.0		ug/Kg	*	60	45 - 150	8	24
Carbon tetrachloride	ND		53.6	40.3		ug/Kg	*	75	69 - 138	7	20
1,2-Dibromo-3-Chloropropane	ND		53.6	38.8		ug/Kg	*	72	66 - 150	1	28
Bromomethane	ND		53.6	32.5		ug/Kg	*	61	52 - 135	1	22
Bromoform	0.30	J B	53.6	37.9	F	ug/Kg	*	70	77 - 135	6	20
Chloroethane	ND		53.6	40.0		ug/Kg	*	75	51 - 145	3	22

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37354-B-1-C MSD

Matrix: Solid

Analysis Batch: 154355

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 154326

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	ND		53.6	42.5		ug/Kg	*	79	73 - 123	5	20
Chlorobromomethane	ND		53.6	42.9		ug/Kg	*	80	74 - 135	6	21
Dichlorobromomethane	ND		53.6	40.8		ug/Kg	*	76	73 - 135	6	20
Chlorodibromomethane	ND		53.6	40.7	F	ug/Kg	*	76	77 - 135	10	20
Isopropylbenzene	ND		53.6	33.6	F	ug/Kg	*	63	74 - 137	20	20
2-Hexanone	ND		214	172		ug/Kg	*	80	67 - 150	0	29
Chloromethane	ND		53.6	35.9		ug/Kg	*	67	41 - 138	4	25
Dichlorodifluoromethane	ND		53.6	38.0		ug/Kg	*	71	32 - 152	7	28
trans-1,2-Dichloroethene	ND		53.6	40.2	F	ug/Kg	*	75	77 - 135	5	20
trans-1,3-Dichloropropene	ND		53.6	39.3		ug/Kg	*	73	71 - 135	7	20
Methylene Chloride	1.8	J	53.6	42.1	F	ug/Kg	*	75	76 - 136	3	21
Methyl tert-butyl ether	ND		53.6	44.5		ug/Kg	*	83	71 - 141	2	20
4-Methyl-2-pentanone (MIBK)	ND		214	196		ug/Kg	*	91	69 - 150	0	25
Styrene	ND		53.6	36.3	F	ug/Kg	*	68	76 - 135	15	20
1,1,2,2-Tetrachloroethane	ND		53.6	40.9		ug/Kg	*	76	65 - 135	5	21
1,2,3-Trichlorobenzene	ND		53.6	22.3	F	ug/Kg	*	42	62 - 135	30	31
1,2,4-Trichlorobenzene	ND		53.6	22.2	F	ug/Kg	*	41	65 - 135	36	26
Toluene	ND		53.6	38.1	F	ug/Kg	*	71	77 - 122	11	20
1,1,1-Trichloroethane	ND		53.6	41.4		ug/Kg	*	77	70 - 135	5	20
1,1,2-Trichloroethane	ND		53.6	41.5	F	ug/Kg	*	77	78 - 135	2	20
Trichloroethene	ND		53.6	39.2	F	ug/Kg	*	73	77 - 135	8	20
Vinyl chloride	ND		53.6	34.6		ug/Kg	*	64	43 - 145	4	24
m-Xylene & p-Xylene	ND		107	67.5	F	ug/Kg	*	63	77 - 135	17	20
o-Xylene	ND		53.6	35.6	F	ug/Kg	*	66	75 - 135	17	20
Tetrachloroethene	ND		53.6	34.9	F	ug/Kg	*	65	76 - 135	16	20
1,2-Dichlorobenzene	ND		53.6	30.4	F	ug/Kg	*	57	73 - 135	24	20
1,3-Dichlorobenzene	ND		53.6	29.7	F	ug/Kg	*	55	69 - 135	26	20
1,4-Dichlorobenzene	ND		53.6	30.1	F	ug/Kg	*	56	73 - 135	27	22
cis-1,2-Dichloroethene	ND		53.6	40.3	F	ug/Kg	*	75	76 - 135	5	20
cis-1,3-Dichloropropene	ND		53.6	38.5		ug/Kg	*	72	71 - 135	11	20
1,1-Dichloroethane	ND		53.6	41.1		ug/Kg	*	77	70 - 135	3	20
1,1-Dichloroethene	ND		53.6	40.3	F	ug/Kg	*	75	79 - 135	4	20
1,2-Dichloroethane	ND		53.6	42.8		ug/Kg	*	80	69 - 135	3	20
1,2-Dichloropropane	ND		53.6	39.3		ug/Kg	*	73	72 - 121	8	20
Ethylbenzene	ND		53.6	34.1	F	ug/Kg	*	64	73 - 125	17	20
1,2-Dibromoethane	ND		53.6	40.5		ug/Kg	*	76	76 - 135	8	20
Trichlorofluoromethane	ND		53.6	37.7		ug/Kg	*	70	48 - 150	6	33

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		58 - 140
Toluene-d8 (Surr)	86		80 - 126
4-Bromofluorobenzene (Surr)	100		76 - 127
Dibromofluoromethane (Surr)	85		75 - 121

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-154062/1-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.8	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,2,4-Trichlorobenzene	ND		4.0	0.28	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,2-Dichlorobenzene	ND		4.0	0.23	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,3-Dichlorobenzene	ND		10	0.30	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,4-Dichlorobenzene	ND		4.0	0.32	ug/L		12/28/12 11:36	12/31/12 16:50	1
1,4-Dioxane	ND		20	1.7	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4,6-Trichlorophenol	ND		10	0.29	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,3,4,6-Tetrachlorophenol	ND		50	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4,5-Trichlorophenol	ND		10	0.45	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4-Dinitrophenol	ND		30	10	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		12/28/12 11:36	12/31/12 16:50	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Chloronaphthalene	ND		4.0	0.26	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Chlorophenol	ND		10	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Methylnaphthalene	ND		4.0	0.29	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Methylphenol	ND		10	0.98	ug/L		12/28/12 11:36	12/31/12 16:50	1
3 & 4 Methylphenol	ND		10	0.25	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Nitroaniline	ND		10	1.7	ug/L		12/28/12 11:36	12/31/12 16:50	1
2-Nitrophenol	ND		10	0.39	ug/L		12/28/12 11:36	12/31/12 16:50	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
3-Nitroaniline	ND		10	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
4,6-Dinitro-2-methylphenol	ND		50	4.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Chloroaniline	ND		10	2.1	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Nitroaniline	ND		10	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
4-Nitrophenol	ND		10	1.2	ug/L		12/28/12 11:36	12/31/12 16:50	1
Acenaphthene	ND		4.0	0.28	ug/L		12/28/12 11:36	12/31/12 16:50	1
Acenaphthylene	ND		4.0	0.49	ug/L		12/28/12 11:36	12/31/12 16:50	1
Acetophenone	ND		10	0.24	ug/L		12/28/12 11:36	12/31/12 16:50	1
Anthracene	ND		4.0	0.42	ug/L		12/28/12 11:36	12/31/12 16:50	1
Atrazine	ND		10	0.73	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzaldehyde	ND		10	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzo[a]pyrene	ND		4.0	0.31	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzo[b]fluoranthene	ND		4.0	0.53	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzo[g,h,i]perylene	ND		4.0	0.50	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzo[k]fluoranthene	ND		4.0	0.46	ug/L		12/28/12 11:36	12/31/12 16:50	1
Benzo[a]anthracene	ND		4.0	0.35	ug/L		12/28/12 11:36	12/31/12 16:50	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		12/28/12 11:36	12/31/12 16:50	1
Bis(2-chloroethyl)ether	ND		10	0.41	ug/L		12/28/12 11:36	12/31/12 16:50	1
Bis(2-ethylhexyl) phthalate	ND		10	0.56	ug/L		12/28/12 11:36	12/31/12 16:50	1
Butyl benzyl phthalate	ND		4.0	1.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
Caprolactam	ND		10	5.0	ug/L		12/28/12 11:36	12/31/12 16:50	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154062/1-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154062

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbazole	ND		4.0	0.43	ug/L		12/28/12 11:36	12/31/12 16:50	1
Chrysene	ND		4.0	0.54	ug/L		12/28/12 11:36	12/31/12 16:50	1
Dibenz(a,h)anthracene	ND		4.0	0.51	ug/L		12/28/12 11:36	12/31/12 16:50	1
Di-n-butyl phthalate	ND		4.0	1.2	ug/L		12/28/12 11:36	12/31/12 16:50	1
Di-n-octyl phthalate	ND		4.0	0.35	ug/L		12/28/12 11:36	12/31/12 16:50	1
Dibenzofuran	ND		4.0	0.29	ug/L		12/28/12 11:36	12/31/12 16:50	1
Diethyl phthalate	ND		4.0	0.38	ug/L		12/28/12 11:36	12/31/12 16:50	1
Dimethyl phthalate	ND		4.0	0.21	ug/L		12/28/12 11:36	12/31/12 16:50	1
Fluoranthene	ND		4.0	0.20	ug/L		12/28/12 11:36	12/31/12 16:50	1
Fluorene	ND		4.0	0.31	ug/L		12/28/12 11:36	12/31/12 16:50	1
Hexachlorobenzene	ND		10	0.66	ug/L		12/28/12 11:36	12/31/12 16:50	1
Hexachlorobutadiene	ND		10	3.3	ug/L		12/28/12 11:36	12/31/12 16:50	1
Hexachlorocyclopentadiene	ND		50	10	ug/L		12/28/12 11:36	12/31/12 16:50	1
Hexachloroethane	ND		10	2.1	ug/L		12/28/12 11:36	12/31/12 16:50	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.65	ug/L		12/28/12 11:36	12/31/12 16:50	1
Isophorone	ND		10	0.21	ug/L		12/28/12 11:36	12/31/12 16:50	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		12/28/12 11:36	12/31/12 16:50	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10	0.44	ug/L		12/28/12 11:36	12/31/12 16:50	1
Naphthalene	ND		4.0	0.29	ug/L		12/28/12 11:36	12/31/12 16:50	1
Nitrobenzene	ND		10	0.81	ug/L		12/28/12 11:36	12/31/12 16:50	1
Pentachlorophenol	ND		50	20	ug/L		12/28/12 11:36	12/31/12 16:50	1
Phenanthrene	ND		4.0	0.26	ug/L		12/28/12 11:36	12/31/12 16:50	1
Phenol	ND		10	2.0	ug/L		12/28/12 11:36	12/31/12 16:50	1
Pyrene	ND		10	0.37	ug/L		12/28/12 11:36	12/31/12 16:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	76		51 - 120	12/28/12 11:36	12/31/12 16:50	1
Phenol-d5	82		51 - 120	12/28/12 11:36	12/31/12 16:50	1
2,4,6-Tribromophenol	98		57 - 120	12/28/12 11:36	12/31/12 16:50	1
2-Fluorobiphenyl	78		38 - 120	12/28/12 11:36	12/31/12 16:50	1
Nitrobenzene-d5	81		48 - 120	12/28/12 11:36	12/31/12 16:50	1
Terphenyl-d14	91		50 - 120	12/28/12 11:36	12/31/12 16:50	1

Lab Sample ID: LCS 280-154062/2-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dichlorobenzene	80.0	58.0		ug/L		73	28 - 120
1,3-Dichlorobenzene	80.0	55.1		ug/L		69	24 - 120
1,4-Dichlorobenzene	80.0	56.1		ug/L		70	25 - 120
2,4,6-Trichlorophenol	80.0	73.2		ug/L		91	62 - 120
2,4-Dichlorophenol	80.0	68.6		ug/L		86	62 - 120
2,2'-oxybis[1-chloropropane]	80.0	55.7		ug/L		70	49 - 120
2,4,5-Trichlorophenol	80.0	72.7		ug/L		91	64 - 120
2,4-Dimethylphenol	80.0	54.9		ug/L		69	44 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154062/2-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154062

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
2,4-Dinitrophenol	80.0	70.9		ug/L		89	55 - 120
2,4-Dinitrotoluene	80.0	76.8		ug/L		96	76 - 120
2,6-Dinitrotoluene	80.0	73.8		ug/L		92	73 - 120
2-Chloronaphthalene	80.0	63.9		ug/L		80	51 - 120
2-Chlorophenol	80.0	65.8		ug/L		82	58 - 120
2-Methylnaphthalene	80.0	60.8		ug/L		76	42 - 120
2-Methylphenol	80.0	62.0		ug/L		78	62 - 120
3 & 4 Methylphenol	160	126		ug/L		79	58 - 120
2-Nitroaniline	80.0	70.5		ug/L		88	70 - 120
2-Nitrophenol	80.0	71.8		ug/L		90	59 - 120
3,3'-Dichlorobenzidine	80.0	40.4	J	ug/L		50	10 - 120
3-Nitroaniline	80.0	71.5		ug/L		89	70 - 120
4,6-Dinitro-2-methylphenol	80.0	80.4		ug/L		100	63 - 125
4-Bromophenyl phenyl ether	80.0	71.4		ug/L		89	69 - 120
4-Chloro-3-methylphenol	80.0	69.9		ug/L		87	69 - 120
4-Chloroaniline	80.0	61.9		ug/L		77	60 - 120
4-Chlorophenyl phenyl ether	80.0	69.7		ug/L		87	67 - 120
4-Nitroaniline	80.0	75.1		ug/L		94	70 - 120
4-Nitrophenol	80.0	76.8		ug/L		96	59 - 129
Acenaphthene	80.0	65.3		ug/L		82	61 - 120
Acenaphthylene	80.0	67.0		ug/L		84	63 - 120
Anthracene	80.0	68.8		ug/L		86	71 - 120
Benzo[a]pyrene	80.0	61.2		ug/L		76	63 - 120
Benzo[b]fluoranthene	80.0	69.7		ug/L		87	65 - 120
Benzo[g,h,i]perylene	80.0	73.6		ug/L		92	69 - 120
Benzo[k]fluoranthene	80.0	70.7		ug/L		88	66 - 120
Benzo[a]anthracene	80.0	70.8		ug/L		88	71 - 120
Bis(2-chloroethoxy)methane	80.0	64.5		ug/L		81	64 - 120
Bis(2-chloroethyl)ether	80.0	63.9		ug/L		80	60 - 120
Bis(2-ethylhexyl) phthalate	80.0	76.1		ug/L		95	62 - 133
Butyl benzyl phthalate	80.0	72.2		ug/L		90	71 - 120
Carbazole	80.0	71.1		ug/L		89	72 - 120
Chrysene	80.0	71.2		ug/L		89	69 - 120
Dibenz(a,h)anthracene	80.0	73.0		ug/L		91	63 - 120
Di-n-butyl phthalate	80.0	74.0		ug/L		93	75 - 120
Di-n-octyl phthalate	80.0	71.2		ug/L		89	71 - 120
Diethyl phthalate	80.0	73.4		ug/L		92	73 - 120
Dimethyl phthalate	80.0	72.3		ug/L		90	73 - 120
Fluoranthene	80.0	72.5		ug/L		91	73 - 120
Fluorene	80.0	67.9		ug/L		85	68 - 120
Hexachlorobenzene	80.0	71.2		ug/L		89	69 - 120
Hexachlorobutadiene	80.0	56.5		ug/L		71	24 - 120
Hexachlorocyclopentadiene	80.0	20.5	J	ug/L		26	10 - 120
Hexachloroethane	80.0	53.1		ug/L		66	21 - 120
Indeno[1,2,3-cd]pyrene	80.0	70.5		ug/L		88	63 - 120
Isophorone	80.0	66.1		ug/L		83	65 - 120
N-Nitrosodi-n-propylamine	80.0	63.8		ug/L		80	58 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154062/2-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Nitrosodiphenylamine(as diphenylamine)	68.3	57.0		ug/L		84	66 - 120
Naphthalene	80.0	62.1		ug/L		78	39 - 120
Nitrobenzene	80.0	64.9		ug/L		81	59 - 120
Pentachlorophenol	80.0	72.7		ug/L		91	57 - 120
Phenanthrene	80.0	71.4		ug/L		89	71 - 120
Phenol	80.0	63.7		ug/L		80	61 - 120
Pyrene	80.0	70.5		ug/L		88	71 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	78		51 - 120
Phenol-d5	82		51 - 120
2,4,6-Tribromophenol	106		57 - 120
2-Fluorobiphenyl	81		38 - 120
Nitrobenzene-d5	82		48 - 120
Terphenyl-d14	90		50 - 120

Lab Sample ID: LCSD 280-154062/3-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 154062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,4-Trichlorobenzene	80.0	59.4		ug/L		74	28 - 120	1	42
1,2-Dichlorobenzene	80.0	57.9		ug/L		72	28 - 120	0	49
1,3-Dichlorobenzene	80.0	55.4		ug/L		69	24 - 120	0	52
1,4-Dichlorobenzene	80.0	55.6		ug/L		69	25 - 120	1	52
2,4,6-Trichlorophenol	80.0	72.3		ug/L		90	62 - 120	1	30
2,4-Dichlorophenol	80.0	68.4		ug/L		86	62 - 120	0	30
2,2'-oxybis[1-chloropropane]	80.0	54.7		ug/L		68	49 - 120	2	30
2,4,5-Trichlorophenol	80.0	71.2		ug/L		89	64 - 120	2	30
2,4-Dimethylphenol	80.0	53.6		ug/L		67	44 - 120	2	30
2,4-Dinitrophenol	80.0	67.3		ug/L		84	55 - 120	5	49
2,4-Dinitrotoluene	80.0	75.2		ug/L		94	76 - 120	2	32
2,6-Dinitrotoluene	80.0	72.0		ug/L		90	73 - 120	2	30
2-Chloronaphthalene	80.0	63.8		ug/L		80	51 - 120	0	30
2-Chlorophenol	80.0	64.2		ug/L		80	58 - 120	2	30
2-Methylnaphthalene	80.0	61.1		ug/L		76	42 - 120	0	32
2-Methylphenol	80.0	61.2		ug/L		76	62 - 120	1	30
3 & 4 Methylphenol	160	123		ug/L		77	58 - 120	2	30
2-Nitroaniline	80.0	68.8		ug/L		86	70 - 120	3	30
2-Nitrophenol	80.0	71.2		ug/L		89	59 - 120	1	30
3,3'-Dichlorobenzidine	80.0	41.7	J	ug/L		52	10 - 120	3	30
3-Nitroaniline	80.0	70.2		ug/L		88	70 - 120	2	35
4,6-Dinitro-2-methylphenol	80.0	78.3		ug/L		98	63 - 125	3	37
4-Bromophenyl phenyl ether	80.0	69.3		ug/L		87	69 - 120	3	31
4-Chloro-3-methylphenol	80.0	70.3		ug/L		88	69 - 120	1	30
4-Chloroaniline	80.0	61.4		ug/L		77	60 - 120	1	54
4-Chlorophenyl phenyl ether	80.0	69.0		ug/L		86	67 - 120	1	30

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-154062/3-A

Matrix: Water

Analysis Batch: 154290

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 154062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
4-Nitroaniline	80.0	73.9		ug/L		92	70 - 120	2	34	
4-Nitrophenol	80.0	77.5		ug/L		97	59 - 129	1	35	
Acenaphthene	80.0	65.0		ug/L		81	61 - 120	0	30	
Acenaphthylene	80.0	66.1		ug/L		83	63 - 120	1	30	
Anthracene	80.0	66.6		ug/L		83	71 - 120	3	30	
Benzo[a]pyrene	80.0	60.1		ug/L		75	63 - 120	2	30	
Benzo[b]fluoranthene	80.0	72.5		ug/L		91	65 - 120	4	38	
Benzo[g,h,i]perylene	80.0	71.0		ug/L		89	69 - 120	4	30	
Benzo[k]fluoranthene	80.0	64.1		ug/L		80	66 - 120	10	37	
Benzo[a]anthracene	80.0	68.0		ug/L		85	71 - 120	4	30	
Bis(2-chloroethoxy)methane	80.0	63.5		ug/L		79	64 - 120	2	30	
Bis(2-chloroethyl)ether	80.0	63.0		ug/L		79	60 - 120	1	34	
Bis(2-ethylhexyl) phthalate	80.0	73.1		ug/L		91	62 - 133	4	30	
Butyl benzyl phthalate	80.0	70.2		ug/L		88	71 - 120	3	30	
Carbazole	80.0	68.6		ug/L		86	72 - 120	4	30	
Chrysene	80.0	69.2		ug/L		87	69 - 120	3	30	
Dibenz(a,h)anthracene	80.0	71.3		ug/L		89	63 - 120	2	30	
Di-n-butyl phthalate	80.0	71.5		ug/L		89	75 - 120	3	30	
Di-n-octyl phthalate	80.0	69.7		ug/L		87	71 - 120	2	30	
Diethyl phthalate	80.0	71.3		ug/L		89	73 - 120	3	30	
Dimethyl phthalate	80.0	70.3		ug/L		88	73 - 120	3	30	
Fluoranthene	80.0	69.6		ug/L		87	73 - 120	4	34	
Fluorene	80.0	66.8		ug/L		83	68 - 120	2	30	
Hexachlorobenzene	80.0	69.7		ug/L		87	69 - 120	2	30	
Hexachlorobutadiene	80.0	56.4		ug/L		70	24 - 120	0	47	
Hexachlorocyclopentadiene	80.0	22.8	J	ug/L		29	10 - 120	10	72	
Hexachloroethane	80.0	52.1		ug/L		65	21 - 120	2	57	
Indeno[1,2,3-cd]pyrene	80.0	68.2		ug/L		85	63 - 120	3	30	
Isophorone	80.0	65.9		ug/L		82	65 - 120	0	30	
N-Nitrosodi-n-propylamine	80.0	62.8		ug/L		79	58 - 120	1	30	
n-Nitrosodiphenylamine(as diphenylamine)	68.3	55.5		ug/L		81	66 - 120	3	37	
Naphthalene	80.0	61.7		ug/L		77	39 - 120	1	34	
Nitrobenzene	80.0	64.0		ug/L		80	59 - 120	1	30	
Pentachlorophenol	80.0	70.8		ug/L		89	57 - 120	3	33	
Phenanthrene	80.0	68.1		ug/L		85	71 - 120	5	30	
Phenol	80.0	64.1		ug/L		80	61 - 120	1	42	
Pyrene	80.0	68.2		ug/L		85	71 - 120	3	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	76		51 - 120
Phenol-d5	82		51 - 120
2,4,6-Tribromophenol	103		57 - 120
2-Fluorobiphenyl	78		38 - 120
Nitrobenzene-d5	81		48 - 120
Terphenyl-d14	86		50 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-153994/1-A

Matrix: Solid

Analysis Batch: 154507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.53	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
4,4'-DDE	ND		1.6	0.23	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
4,4'-DDT	ND		1.6	0.57	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Aldrin	ND		1.6	0.24	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
alpha-BHC	ND		1.6	0.21	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
beta-BHC	ND		1.6	0.64	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Chlordane (n.o.s.)	0.713	J	1.6	0.21	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
delta-BHC	ND		1.6	0.39	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Dieldrin	ND		1.6	0.20	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Endosulfan I	ND		1.6	0.17	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Endosulfan II	ND		1.6	0.28	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Endosulfan sulfate	ND		1.6	0.27	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Endrin	ND		1.6	0.30	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Endrin aldehyde	ND		1.6	0.17	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
gamma-BHC (Lindane)	ND		1.6	0.45	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Heptachlor	ND		1.6	0.21	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Heptachlor epoxide	ND		1.6	0.41	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Methoxychlor	ND		3.2	0.44	ug/Kg		12/28/12 09:48	01/03/13 17:33	1
Toxaphene	ND		65	15	ug/Kg		12/28/12 09:48	01/03/13 17:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		63 - 124	12/28/12 09:48	01/03/13 17:33	1
Tetrachloro-m-xylene	83		59 - 115	12/28/12 09:48	01/03/13 17:33	1

Lab Sample ID: LCS 280-153994/2-A

Matrix: Solid

Analysis Batch: 154507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.3		ug/Kg		104	54 - 130
4,4'-DDE	16.7	17.4		ug/Kg		104	58 - 121
4,4'-DDT	16.7	17.1		ug/Kg		103	57 - 133
Aldrin	16.7	16.1		ug/Kg		97	63 - 115
alpha-BHC	16.7	16.0		ug/Kg		96	64 - 116
beta-BHC	16.7	16.5		ug/Kg		99	67 - 115
delta-BHC	16.7	16.8		ug/Kg		101	67 - 115
Dieldrin	16.7	16.9		ug/Kg		101	65 - 127
Endosulfan I	16.7	15.9		ug/Kg		95	65 - 118
Endosulfan II	16.7	16.9		ug/Kg		101	71 - 118
Endosulfan sulfate	16.7	16.3		ug/Kg		98	67 - 123
Endrin	16.7	19.1		ug/Kg		115	77 - 134
Endrin aldehyde	16.7	13.4		ug/Kg		80	47 - 115
gamma-BHC (Lindane)	16.7	16.4		ug/Kg		98	63 - 118
Heptachlor	16.7	16.4		ug/Kg		98	68 - 115
Methoxychlor	16.7	16.8		ug/Kg		101	67 - 130

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-153994/2-A
Matrix: Solid
Analysis Batch: 154507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153994

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	104		63 - 124
Tetrachloro-m-xylene	95		59 - 115

Lab Sample ID: 280-37374-6 MS
Matrix: Solid
Analysis Batch: 154637

Client Sample ID: NE-02-4
Prep Type: Total/NA
Prep Batch: 153994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	Limits
4,4'-DDD	ND		18.2	22.8	D	ug/Kg	*	125	54 - 130	
4,4'-DDE	58		18.2	75.1	D	ug/Kg	*	94	58 - 121	
4,4'-DDT	98		18.2	110	4 D	ug/Kg	*	69	57 - 133	
Aldrin	ND		18.2	6.14	J D	ug/Kg	*	34	63 - 115	
alpha-BHC	ND		18.2	15.4	J D	ug/Kg	*	85	64 - 116	
beta-BHC	ND		18.2	14.7	J D	ug/Kg	*	81	67 - 115	
delta-BHC	ND		18.2	14.9	J D	ug/Kg	*	82	67 - 115	
Dieldrin	ND		18.2	15.1	J D	ug/Kg	*	83	65 - 127	
Endosulfan I	ND		18.2	13.8	J D	ug/Kg	*	76	65 - 118	
Endosulfan II	ND		18.2	14.7	J D	ug/Kg	*	81	71 - 118	
Endosulfan sulfate	ND		18.2	12.8	J D	ug/Kg	*	70	67 - 123	
Endrin	ND		18.2	17.7	J D	ug/Kg	*	97	77 - 134	
Endrin aldehyde	ND		18.2	8.45	J D	ug/Kg	*	46	47 - 115	
gamma-BHC (Lindane)	ND		18.2	14.5	J D	ug/Kg	*	80	63 - 118	
Heptachlor	ND		18.2	13.7	J D	ug/Kg	*	75	68 - 115	
Methoxychlor	ND		18.2	13.9	J D	ug/Kg	*	76	67 - 130	

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	81	D	63 - 124
Tetrachloro-m-xylene	62	D	59 - 115

Lab Sample ID: 280-37374-6 MSD
Matrix: Solid
Analysis Batch: 154637

Client Sample ID: NE-02-4
Prep Type: Total/NA
Prep Batch: 153994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	Limits	RPD	Limit
4,4'-DDD	ND		17.3	20.3	D	ug/Kg	*	117	54 - 130	12	20	
4,4'-DDE	58		17.3	49.5	D	ug/Kg	*	-50	58 - 121	41	15	
4,4'-DDT	98		17.3	69.6	4 D	ug/Kg	*	-162	57 - 133	45	29	
Aldrin	ND		17.3	14.8	J D	ug/Kg	*	85	63 - 115	82	50	
alpha-BHC	ND		17.3	15.3	J D	ug/Kg	*	88	64 - 116	1	17	
beta-BHC	ND		17.3	15.0	J D	ug/Kg	*	86	67 - 115	2	17	
delta-BHC	ND		17.3	15.3	J D	ug/Kg	*	89	67 - 115	3	19	
Dieldrin	ND		17.3	15.3	J D	ug/Kg	*	88	65 - 127	1	25	
Endosulfan I	ND		17.3	13.8	J D	ug/Kg	*	80	65 - 118	0	26	
Endosulfan II	ND		17.3	14.7	J D	ug/Kg	*	85	71 - 118	0	20	
Endosulfan sulfate	ND		17.3	12.9	J D	ug/Kg	*	74	67 - 123	0	22	
Endrin	ND		17.3	17.4	J D	ug/Kg	*	100	77 - 134	2	30	
Endrin aldehyde	ND		17.3	8.91	J D	ug/Kg	*	51	47 - 115	5	29	
gamma-BHC (Lindane)	ND		17.3	14.7	J D	ug/Kg	*	85	63 - 118	1	24	

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-37374-6 MSD

Matrix: Solid

Analysis Batch: 154637

Client Sample ID: NE-02-4

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor	ND		17.3	13.9	J D	ug/Kg	☼	80	68 - 115	2	18
Methoxychlor	ND		17.3	17.7	J D	ug/Kg	☼	102	67 - 130	24	23
Surrogate	%Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	99	D	63 - 124								
Tetrachloro-m-xylene	67	D	59 - 115								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-153994/1-A

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153994

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		32	4.9	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1221	ND		45	15	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1232	ND		32	5.0	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1242	ND		32	8.8	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1248	ND		32	5.4	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1254	ND		32	5.3	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1260	ND		32	2.6	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1262	ND		32	11	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
PCB-1268	ND		32	3.8	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		12/28/12 09:48	01/03/13 02:29	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
DCB Decachlorobiphenyl	84		59 - 130			12/28/12 09:48	01/03/13 02:29	1	
Tetrachloro-m-xylene	93		53 - 128			12/28/12 09:48	01/03/13 02:29	1	

Lab Sample ID: LCS 280-153994/3-A

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				Qualifier
PCB-1016	66.4	62.5		ug/Kg		94	54 - 132
PCB-1260	66.4	58.2		ug/Kg		88	62 - 129
Surrogate	%Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	85		59 - 130				
Tetrachloro-m-xylene	95		53 - 128				

Lab Sample ID: 280-37374-6 MS

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: NE-02-4

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
PCB-1016	ND		67.8	54.9		ug/Kg	☼	81	54 - 132

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 280-37374-6 MS

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: NE-02-4

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
PCB-1260	ND		67.8	49.2		ug/Kg	✖	73		62 - 129
Surrogate	%Recovery	MS Qualifier	Limits							
DCB Decachlorobiphenyl	65		59 - 130							
Tetrachloro-m-xylene	85		53 - 128							

Lab Sample ID: 280-37374-6 MSD

Matrix: Solid

Analysis Batch: 154408

Client Sample ID: NE-02-4

Prep Type: Total/NA

Prep Batch: 153994

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
PCB-1016	ND		71.8	59.6		ug/Kg	✖	83		54 - 132	8	36
PCB-1260	ND		71.8	54.6		ug/Kg	✖	76		62 - 129	10	44
Surrogate	%Recovery	MSD Qualifier	Limits									
DCB Decachlorobiphenyl	67		59 - 130									
Tetrachloro-m-xylene	85		53 - 128									

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-154354/1-A

Matrix: Solid

Analysis Batch: 154642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154354

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	ND		78	14	ug/Kg		01/02/13 12:00	01/04/13 13:06	1
Dinoseb	ND		12	1.4	ug/Kg		01/02/13 12:00	01/04/13 13:06	1
2,4,5-T	ND		20	2.3	ug/Kg		01/02/13 12:00	01/04/13 13:06	1
Silvex (2,4,5-TP)	ND		20	1.4	ug/Kg		01/02/13 12:00	01/04/13 13:06	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	63		31 - 105				01/02/13 12:00	01/04/13 13:06	1

Lab Sample ID: LCS 280-154354/2-A

Matrix: Solid

Analysis Batch: 154642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154354

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
2,4-D	89.7	84.5		ug/Kg		94		32 - 115
Dinoseb	89.7	7.20	J	ug/Kg		8		5 - 166
2,4,5-T	93.6	88.2		ug/Kg		94		24 - 115
Silvex (2,4,5-TP)	89.7	84.7		ug/Kg		94		53 - 134
Surrogate	%Recovery	LCS Qualifier	Limits					
2,4-Dichlorophenylacetic acid	78		31 - 105					

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 280-37374-1 MS

Matrix: Solid

Analysis Batch: 154642

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154354

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
2,4-D	ND		99.4	ND	D	ug/Kg	☼	0		32 - 115
Dinoseb	ND		99.4	ND	D	ug/Kg	☼	0		5 - 166
2,4,5-T	ND		104	84.5	J D	ug/Kg	☼	81		24 - 115
Silvex (2,4,5-TP)	ND		99.4	65.8	J D	ug/Kg	☼	66		53 - 134

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	96	D	31 - 105

Lab Sample ID: 280-37374-1 MSD

Matrix: Solid

Analysis Batch: 154642

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154354

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
2,4-D	ND		99.8	84.4	J D	ug/Kg	☼	85		32 - 115	NC	40
Dinoseb	ND		99.8	ND	D	ug/Kg	☼	0		5 - 166	NC	50
2,4,5-T	ND		104	91.2	J D	ug/Kg	☼	88		24 - 115	8	40
Silvex (2,4,5-TP)	ND		99.8	74.8	J D	ug/Kg	☼	75		53 - 134	13	40

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	107	D	31 - 105

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-153926/1-A

Matrix: Solid

Analysis Batch: 154337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153926

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		2000	660	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Barium	ND		1000	76	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Cadmium	ND		500	41	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Chromium	ND		1500	58	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Lead	ND		800	270	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Selenium	ND		1300	860	ug/Kg		12/28/12 12:00	12/31/12 18:11	1
Silver	ND		1000	160	ug/Kg		12/28/12 12:00	12/31/12 18:11	1

Lab Sample ID: LCS 280-153926/2-A

Matrix: Solid

Analysis Batch: 154337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153926

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Arsenic	100000	99400		ug/Kg		99		85 - 110
Barium	200000	200000		ug/Kg		100		87 - 112
Cadmium	10000	10400		ug/Kg		104		87 - 110
Chromium	20000	20000		ug/Kg		100		84 - 114
Lead	50000	49800		ug/Kg		100		86 - 110
Selenium	200000	197000		ug/Kg		98		83 - 110

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-153926/2-A
Matrix: Solid
Analysis Batch: 154337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5000	5000		ug/Kg		100	87 - 114

Lab Sample ID: 280-37374-1 MS
Matrix: Solid
Analysis Batch: 154337

Client Sample ID: SW-01-0
Prep Type: Total/NA
Prep Batch: 153926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3500		111000	104000		ug/Kg	☼	90	76 - 111
Barium	160000		221000	388000		ug/Kg	☼	103	52 - 159
Cadmium	170	J	11100	10500		ug/Kg	☼	94	40 - 130
Chromium	10000		22100	32300		ug/Kg	☼	99	70 - 200
Lead	35000		55300	85800		ug/Kg	☼	93	70 - 200
Selenium	880	J	221000	194000		ug/Kg	☼	87	76 - 104
Silver	ND		5530	5040		ug/Kg	☼	91	75 - 141

Lab Sample ID: 280-37374-1 MSD
Matrix: Solid
Analysis Batch: 154337

Client Sample ID: SW-01-0
Prep Type: Total/NA
Prep Batch: 153926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3500		111000	104000		ug/Kg	☼	91	76 - 111	0	20
Barium	160000		221000	357000		ug/Kg	☼	88	52 - 159	8	20
Cadmium	170	J	11100	10600		ug/Kg	☼	94	40 - 130	0	20
Chromium	10000		22100	31000		ug/Kg	☼	94	70 - 200	4	20
Lead	35000		55300	82500		ug/Kg	☼	87	70 - 200	4	20
Selenium	880	J	221000	196000		ug/Kg	☼	88	76 - 104	1	20
Silver	ND		5530	4990		ug/Kg	☼	90	75 - 141	1	20

Lab Sample ID: MB 280-153928/1-A
Matrix: Water
Analysis Batch: 154235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 07:30	12/28/12 19:41	1
Barium	ND		10	0.58	ug/L		12/28/12 07:30	12/28/12 19:41	1
Cadmium	ND		5.0	0.45	ug/L		12/28/12 07:30	12/28/12 19:41	1
Chromium	ND		10	0.66	ug/L		12/28/12 07:30	12/28/12 19:41	1
Lead	ND		9.0	2.6	ug/L		12/28/12 07:30	12/28/12 19:41	1
Selenium	ND		15	4.9	ug/L		12/28/12 07:30	12/28/12 19:41	1
Silver	ND		10	0.93	ug/L		12/28/12 07:30	12/28/12 19:41	1

Lab Sample ID: LCS 280-153928/2-A
Matrix: Water
Analysis Batch: 154235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1090		ug/L		109	88 - 110
Barium	2000	2030		ug/L		102	90 - 112
Cadmium	100	110		ug/L		110	88 - 111

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-153928/2-A

Matrix: Water

Analysis Batch: 154235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	200	214		ug/L		107	90 - 113
Lead	500	521		ug/L		104	89 - 110
Selenium	2000	2110		ug/L		105	85 - 112
Silver	50.0	53.9		ug/L		108	86 - 115

Lab Sample ID: 280-37374-4 MS

Matrix: Water

Analysis Batch: 154235

Client Sample ID: SW-01-GW

Prep Type: Total/NA

Prep Batch: 153928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.2	J	1000	1080		ug/L		108	84 - 124
Barium	430		2000	2430		ug/L		100	85 - 120
Cadmium	0.68	J	100	108		ug/L		107	82 - 119
Chromium	28		200	243		ug/L		107	73 - 135
Lead	21		500	515		ug/L		99	89 - 121
Selenium	12	J	2000	2080		ug/L		104	71 - 140
Silver	ND		50.0	54.6		ug/L		109	75 - 141

Lab Sample ID: 280-37374-4 MSD

Matrix: Water

Analysis Batch: 154235

Client Sample ID: SW-01-GW

Prep Type: Total/NA

Prep Batch: 153928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.2	J	1000	1080		ug/L		108	84 - 124	0	20
Barium	430		2000	2450		ug/L		101	85 - 120	1	20
Cadmium	0.68	J	100	108		ug/L		107	82 - 119	0	20
Chromium	28		200	243		ug/L		108	73 - 135	0	20
Lead	21		500	517		ug/L		99	89 - 121	0	20
Selenium	12	J	2000	2090		ug/L		104	71 - 140	0	20
Silver	ND		50.0	54.1		ug/L		108	75 - 141	1	20

Lab Sample ID: MB 280-153929/1-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 153929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4	ug/L		12/28/12 12:00	12/31/12 20:06	1
Barium	0.690	J	10	0.58	ug/L		12/28/12 12:00	12/31/12 20:06	1
Cadmium	ND		5.0	0.45	ug/L		12/28/12 12:00	12/31/12 20:06	1
Chromium	ND		10	0.66	ug/L		12/28/12 12:00	12/31/12 20:06	1
Lead	ND		9.0	2.6	ug/L		12/28/12 12:00	12/31/12 20:06	1
Selenium	ND		15	4.9	ug/L		12/28/12 12:00	12/31/12 20:06	1
Silver	ND		10	0.93	ug/L		12/28/12 12:00	12/31/12 20:06	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-153929/2-A

Matrix: Water

Analysis Batch: 154339

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 153929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1060		ug/L		106	88 - 110
Barium	2000	2070		ug/L		103	90 - 112
Cadmium	100	109		ug/L		109	88 - 111
Chromium	200	207		ug/L		103	90 - 113
Lead	500	522		ug/L		104	89 - 110
Selenium	2000	2110		ug/L		106	85 - 112
Silver	50.0	54.2		ug/L		108	86 - 115

Lab Sample ID: 280-37374-4 MS

Matrix: Water

Analysis Batch: 154339

Client Sample ID: SW-01-GW

Prep Type: Dissolved

Prep Batch: 153929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1000	1060		ug/L		106	84 - 124
Barium	170	B	2000	2220		ug/L		103	85 - 120
Cadmium	ND		100	108		ug/L		108	82 - 119
Chromium	1.3	J	200	204		ug/L		102	73 - 135
Lead	ND		500	503		ug/L		101	89 - 121
Selenium	11	J	2000	2080		ug/L		103	71 - 140
Silver	ND		50.0	53.6		ug/L		107	75 - 141

Lab Sample ID: 280-37374-4 MSD

Matrix: Water

Analysis Batch: 154339

Client Sample ID: SW-01-GW

Prep Type: Dissolved

Prep Batch: 153929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1000	1060		ug/L		106	84 - 124	0	20
Barium	170	B	2000	2210		ug/L		102	85 - 120	0	20
Cadmium	ND		100	108		ug/L		108	82 - 119	0	20
Chromium	1.3	J	200	205		ug/L		102	73 - 135	0	20
Lead	ND		500	504		ug/L		101	89 - 121	0	20
Selenium	11	J	2000	2090		ug/L		104	71 - 140	1	20
Silver	ND		50.0	54.2		ug/L		108	75 - 141	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-154016/1-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:38	1

Lab Sample ID: LCS 280-154016/2-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.04		ug/L		101	84 - 120

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-37373-A-1-B MS

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	6.69	F	ug/L		134	75 - 125

Lab Sample ID: 280-37373-A-1-C MSD

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 154016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	6.84	F	ug/L		137	75 - 125	2	20

Lab Sample ID: MB 280-154019/1-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.027	ug/L		12/28/12 11:15	12/28/12 15:15	1

Lab Sample ID: LCS 280-154019/2-A

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.98		ug/L		100	84 - 120

Lab Sample ID: 280-37285-I-2-G MS

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 154019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	5.05		ug/L		101	75 - 125

Lab Sample ID: 280-37285-I-2-H MSD

Matrix: Water

Analysis Batch: 154241

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 154019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	5.08		ug/L		102	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-154028/1-A

Matrix: Solid

Analysis Batch: 154492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		01/02/13 11:30	01/02/13 18:52	1

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-154028/2-A

Matrix: Solid

Analysis Batch: 154492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	428		ug/Kg		103	87 - 111

Lab Sample ID: 280-37374-1 MS

Matrix: Solid

Analysis Batch: 154492

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	19		446	345	F	ug/Kg	☼	73	87 - 111

Lab Sample ID: 280-37374-1 MSD

Matrix: Solid

Analysis Batch: 154492

Client Sample ID: SW-01-0

Prep Type: Total/NA

Prep Batch: 154028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	19		454	524	F	ug/Kg	☼	111	87 - 111	41	20

Method: 1664A - Oil & Grease (HEM)

Lab Sample ID: MB 280-154686/1-A

Matrix: Water

Analysis Batch: 154730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L		01/04/13 13:00	01/04/13 16:24	1

Lab Sample ID: LCS 280-154686/2-A

Matrix: Water

Analysis Batch: 154730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	36.0		mg/L		90	81 - 107

Lab Sample ID: LCSD 280-154686/3-A

Matrix: Water

Analysis Batch: 154730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 154686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	37.5		mg/L		94	81 - 107	4	22

Method: 9040C - pH

Lab Sample ID: LCS 280-154179/4

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH adj. to 25 deg C	7.00	7.050		SU		101	99 - 101

TestAmerica Denver

QC Sample Results

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Method: 9040C - pH (Continued)

Lab Sample ID: LCSD 280-154179/5

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
pH adj. to 25 deg C	7.00	7.050		SU		101	99 - 101	0	5

Lab Sample ID: 280-37417-B-2 DU

Matrix: Water

Analysis Batch: 154179

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.30		7.350		SU		0.7	5
Temperature	20.0		20.00		Degrees C		0	10

Method: Moisture - Percent Moisture

Lab Sample ID: 280-37398-B-2 DU

Matrix: Solid

Analysis Batch: 154096

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12		12		%		0.3	20
Percent Solids	88		88		%		0.04	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-154143/3

Matrix: Water

Analysis Batch: 154143

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			12/28/12 16:10	1

Lab Sample ID: LCS 280-154143/1

Matrix: Water

Analysis Batch: 154143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	94.0		mg/L		94	86 - 114		

Lab Sample ID: LCSD 280-154143/2

Matrix: Water

Analysis Batch: 154143

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	90.0		mg/L		90	86 - 114	4	20

Lab Sample ID: 280-37378-D-1 DU

Matrix: Water

Analysis Batch: 154143

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.4	J	2.00	J	mg/L		18	10

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

GC/MS VOA

Analysis Batch: 153872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37114-C-1-B MS	Matrix Spike	Total/NA	Solid	8260B	153919
280-37114-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	153919
280-37374-2	SW-01-4	Total/NA	Solid	8260B	153919
280-37374-3	SW-01-11	Total/NA	Solid	8260B	153919
LCS 280-153919/2-A	Lab Control Sample	Total/NA	Solid	8260B	153919
MB 280-153919/1-A	Method Blank	Total/NA	Solid	8260B	153919

Prep Batch: 153919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37114-C-1-B MS	Matrix Spike	Total/NA	Solid	5030B	
280-37114-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
280-37374-2	SW-01-4	Total/NA	Solid	5030B	
280-37374-3	SW-01-11	Total/NA	Solid	5030B	
LCS 280-153919/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-153919/1-A	Method Blank	Total/NA	Solid	5030B	

Prep Batch: 154297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	5030B	
280-37374-1 MS	SW-01-0	Total/NA	Solid	5030B	
280-37374-1 MSD	SW-01-0	Total/NA	Solid	5030B	
LCS 280-154297/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-154297/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 154301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	8260B	154297
280-37374-1 MS	SW-01-0	Total/NA	Solid	8260B	154297
280-37374-1 MSD	SW-01-0	Total/NA	Solid	8260B	154297
LCS 280-154297/2-A	Lab Control Sample	Total/NA	Solid	8260B	154297
MB 280-154297/1-A	Method Blank	Total/NA	Solid	8260B	154297

Analysis Batch: 154317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	8260B	
280-37374-8	NE-02-GW	Total/NA	Water	8260B	
280-37417-I-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-37417-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 280-154317/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-154317/5	Method Blank	Total/NA	Water	8260B	

Prep Batch: 154326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37354-B-1-B MS	Matrix Spike	Total/NA	Solid	5030B	
280-37354-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
280-37374-5	NE-02-0	Total/NA	Solid	5030B	
280-37374-6	NE-02-4	Total/NA	Solid	5030B	
280-37374-7	NE-02-9	Total/NA	Solid	5030B	
LCS 280-154326/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-154326/1-A	Method Blank	Total/NA	Solid	5030B	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

GC/MS VOA (Continued)

Analysis Batch: 154355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37354-B-1-B MS	Matrix Spike	Total/NA	Solid	8260B	154326
280-37354-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	154326
280-37374-5	NE-02-0	Total/NA	Solid	8260B	154326
280-37374-6	NE-02-4	Total/NA	Solid	8260B	154326
280-37374-7	NE-02-9	Total/NA	Solid	8260B	154326
LCS 280-154326/2-A	Lab Control Sample	Total/NA	Solid	8260B	154326
MB 280-154326/1-A	Method Blank	Total/NA	Solid	8260B	154326

GC/MS Semi VOA

Prep Batch: 154062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	3520C	
280-37374-8	NE-02-GW	Total/NA	Water	3520C	
LCS 280-154062/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-154062/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-154062/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 154290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	8270C	154062
280-37374-8	NE-02-GW	Total/NA	Water	8270C	154062
LCS 280-154062/2-A	Lab Control Sample	Total/NA	Water	8270C	154062
LCSD 280-154062/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	154062
MB 280-154062/1-A	Method Blank	Total/NA	Water	8270C	154062

GC Semi VOA

Prep Batch: 153994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	3546	
280-37374-2	SW-01-4	Total/NA	Solid	3546	
280-37374-3	SW-01-11	Total/NA	Solid	3546	
280-37374-5	NE-02-0	Total/NA	Solid	3546	
280-37374-6	NE-02-4	Total/NA	Solid	3546	
280-37374-6 MS	NE-02-4	Total/NA	Solid	3546	
280-37374-6 MS	NE-02-4	Total/NA	Solid	3546	
280-37374-6 MSD	NE-02-4	Total/NA	Solid	3546	
280-37374-6 MSD	NE-02-4	Total/NA	Solid	3546	
280-37374-7	NE-02-9	Total/NA	Solid	3546	
LCS 280-153994/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 280-153994/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-153994/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 154354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	8151A	
280-37374-1 MS	SW-01-0	Total/NA	Solid	8151A	
280-37374-1 MSD	SW-01-0	Total/NA	Solid	8151A	
280-37374-2	SW-01-4	Total/NA	Solid	8151A	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

GC Semi VOA (Continued)

Prep Batch: 154354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-3	SW-01-11	Total/NA	Solid	8151A	
280-37374-5	NE-02-0	Total/NA	Solid	8151A	
280-37374-6	NE-02-4	Total/NA	Solid	8151A	
280-37374-7	NE-02-9	Total/NA	Solid	8151A	
LCS 280-154354/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 280-154354/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 154408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	8082	153994
280-37374-2	SW-01-4	Total/NA	Solid	8082	153994
280-37374-3	SW-01-11	Total/NA	Solid	8082	153994
280-37374-5	NE-02-0	Total/NA	Solid	8082	153994
280-37374-6	NE-02-4	Total/NA	Solid	8082	153994
280-37374-6 MS	NE-02-4	Total/NA	Solid	8082	153994
280-37374-6 MSD	NE-02-4	Total/NA	Solid	8082	153994
280-37374-7	NE-02-9	Total/NA	Solid	8082	153994
LCS 280-153994/3-A	Lab Control Sample	Total/NA	Solid	8082	153994
MB 280-153994/1-A	Method Blank	Total/NA	Solid	8082	153994

Analysis Batch: 154507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-153994/2-A	Lab Control Sample	Total/NA	Solid	8081A	153994
MB 280-153994/1-A	Method Blank	Total/NA	Solid	8081A	153994

Analysis Batch: 154637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	8081A	153994
280-37374-2	SW-01-4	Total/NA	Solid	8081A	153994
280-37374-3	SW-01-11	Total/NA	Solid	8081A	153994
280-37374-5	NE-02-0	Total/NA	Solid	8081A	153994
280-37374-6	NE-02-4	Total/NA	Solid	8081A	153994
280-37374-6 MS	NE-02-4	Total/NA	Solid	8081A	153994
280-37374-6 MSD	NE-02-4	Total/NA	Solid	8081A	153994
280-37374-7	NE-02-9	Total/NA	Solid	8081A	153994

Analysis Batch: 154642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	8151A	154354
280-37374-1 MS	SW-01-0	Total/NA	Solid	8151A	154354
280-37374-1 MSD	SW-01-0	Total/NA	Solid	8151A	154354
280-37374-2	SW-01-4	Total/NA	Solid	8151A	154354
280-37374-3	SW-01-11	Total/NA	Solid	8151A	154354
280-37374-5	NE-02-0	Total/NA	Solid	8151A	154354
280-37374-6	NE-02-4	Total/NA	Solid	8151A	154354
280-37374-7	NE-02-9	Total/NA	Solid	8151A	154354
LCS 280-154354/2-A	Lab Control Sample	Total/NA	Solid	8151A	154354
MB 280-154354/1-A	Method Blank	Total/NA	Solid	8151A	154354

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Metals

Prep Batch: 153926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	3050B	
280-37374-1 MS	SW-01-0	Total/NA	Solid	3050B	
280-37374-1 MSD	SW-01-0	Total/NA	Solid	3050B	
280-37374-2	SW-01-4	Total/NA	Solid	3050B	
280-37374-3	SW-01-11	Total/NA	Solid	3050B	
280-37374-5	NE-02-0	Total/NA	Solid	3050B	
280-37374-6	NE-02-4	Total/NA	Solid	3050B	
280-37374-7	NE-02-9	Total/NA	Solid	3050B	
LCS 280-153926/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-153926/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 153928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	3010A	
280-37374-4 MS	SW-01-GW	Total/NA	Water	3010A	
280-37374-4 MSD	SW-01-GW	Total/NA	Water	3010A	
280-37374-8	NE-02-GW	Total/NA	Water	3010A	
LCS 280-153928/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 280-153928/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 153929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Dissolved	Water	3005A	
280-37374-4 MS	SW-01-GW	Dissolved	Water	3005A	
280-37374-4 MSD	SW-01-GW	Dissolved	Water	3005A	
280-37374-8	NE-02-GW	Dissolved	Water	3005A	
LCS 280-153929/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-153929/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 154016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37373-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
280-37373-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
280-37374-4	SW-01-GW	Total/NA	Water	7470A	
280-37374-8	NE-02-GW	Total/NA	Water	7470A	
LCS 280-154016/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-154016/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 154019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-I-2-G MS	Matrix Spike	Dissolved	Water	7470A	
280-37285-I-2-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	
280-37374-4	SW-01-GW	Dissolved	Water	7470A	
280-37374-8	NE-02-GW	Dissolved	Water	7470A	
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 154028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	7471A	
280-37374-1 MS	SW-01-0	Total/NA	Solid	7471A	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Metals (Continued)

Prep Batch: 154028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1 MSD	SW-01-0	Total/NA	Solid	7471A	
280-37374-2	SW-01-4	Total/NA	Solid	7471A	
280-37374-3	SW-01-11	Total/NA	Solid	7471A	
280-37374-5	NE-02-0	Total/NA	Solid	7471A	
280-37374-6	NE-02-4	Total/NA	Solid	7471A	
280-37374-7	NE-02-9	Total/NA	Solid	7471A	
LCS 280-154028/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-154028/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 154235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	6010B	153928
280-37374-4 MS	SW-01-GW	Total/NA	Water	6010B	153928
280-37374-4 MSD	SW-01-GW	Total/NA	Water	6010B	153928
280-37374-8	NE-02-GW	Total/NA	Water	6010B	153928
LCS 280-153928/2-A	Lab Control Sample	Total/NA	Water	6010B	153928
MB 280-153928/1-A	Method Blank	Total/NA	Water	6010B	153928

Analysis Batch: 154241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37285-I-2-G MS	Matrix Spike	Dissolved	Water	7470A	154019
280-37285-I-2-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	154019
280-37373-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	154016
280-37373-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	154016
280-37374-4	SW-01-GW	Dissolved	Water	7470A	154019
280-37374-4	SW-01-GW	Total/NA	Water	7470A	154016
280-37374-8	NE-02-GW	Dissolved	Water	7470A	154019
280-37374-8	NE-02-GW	Total/NA	Water	7470A	154016
LCS 280-154016/2-A	Lab Control Sample	Total/NA	Water	7470A	154016
LCS 280-154019/2-A	Lab Control Sample	Total/NA	Water	7470A	154019
MB 280-154016/1-A	Method Blank	Total/NA	Water	7470A	154016
MB 280-154019/1-A	Method Blank	Total/NA	Water	7470A	154019

Analysis Batch: 154337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	6010B	153926
280-37374-1 MS	SW-01-0	Total/NA	Solid	6010B	153926
280-37374-1 MSD	SW-01-0	Total/NA	Solid	6010B	153926
280-37374-2	SW-01-4	Total/NA	Solid	6010B	153926
280-37374-3	SW-01-11	Total/NA	Solid	6010B	153926
280-37374-5	NE-02-0	Total/NA	Solid	6010B	153926
280-37374-6	NE-02-4	Total/NA	Solid	6010B	153926
280-37374-7	NE-02-9	Total/NA	Solid	6010B	153926
LCS 280-153926/2-A	Lab Control Sample	Total/NA	Solid	6010B	153926
MB 280-153926/1-A	Method Blank	Total/NA	Solid	6010B	153926

Analysis Batch: 154339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Dissolved	Water	6010B	153929
280-37374-4 MS	SW-01-GW	Dissolved	Water	6010B	153929
280-37374-4 MSD	SW-01-GW	Dissolved	Water	6010B	153929

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Metals (Continued)

Analysis Batch: 154339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-8	NE-02-GW	Dissolved	Water	6010B	153929
LCS 280-153929/2-A	Lab Control Sample	Total Recoverable	Water	6010B	153929
MB 280-153929/1-A	Method Blank	Total Recoverable	Water	6010B	153929

Analysis Batch: 154492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	7471A	154028
280-37374-1 MS	SW-01-0	Total/NA	Solid	7471A	154028
280-37374-1 MSD	SW-01-0	Total/NA	Solid	7471A	154028
280-37374-2	SW-01-4	Total/NA	Solid	7471A	154028
280-37374-3	SW-01-11	Total/NA	Solid	7471A	154028
280-37374-5	NE-02-0	Total/NA	Solid	7471A	154028
280-37374-6	NE-02-4	Total/NA	Solid	7471A	154028
280-37374-7	NE-02-9	Total/NA	Solid	7471A	154028
LCS 280-154028/2-A	Lab Control Sample	Total/NA	Solid	7471A	154028
MB 280-154028/1-A	Method Blank	Total/NA	Solid	7471A	154028

General Chemistry

Analysis Batch: 154096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-1	SW-01-0	Total/NA	Solid	Moisture	
280-37374-2	SW-01-4	Total/NA	Solid	Moisture	
280-37374-3	SW-01-11	Total/NA	Solid	Moisture	
280-37374-5	NE-02-0	Total/NA	Solid	Moisture	
280-37374-6	NE-02-4	Total/NA	Solid	Moisture	
280-37374-7	NE-02-9	Total/NA	Solid	Moisture	
280-37398-B-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 154143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	SM 2540D	
280-37374-8	NE-02-GW	Total/NA	Water	SM 2540D	
280-37378-D-1 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 280-154143/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-154143/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 280-154143/3	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 154179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	9040C	
280-37374-8	NE-02-GW	Total/NA	Water	9040C	
280-37417-B-2 DU	Duplicate	Total/NA	Water	9040C	
LCS 280-154179/4	Lab Control Sample	Total/NA	Water	9040C	
LCSD 280-154179/5	Lab Control Sample Dup	Total/NA	Water	9040C	

Prep Batch: 154686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	1664A	
280-37374-8	NE-02-GW	Total/NA	Water	1664A	

TestAmerica Denver

QC Association Summary

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

General Chemistry (Continued)

Prep Batch: 154686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-154686/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 280-154686/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 280-154686/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 154730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37374-4	SW-01-GW	Total/NA	Water	1664A	154686
280-37374-8	NE-02-GW	Total/NA	Water	1664A	154686
LCS 280-154686/2-A	Lab Control Sample	Total/NA	Water	1664A	154686
LCSD 280-154686/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	154686
MB 280-154686/1-A	Method Blank	Total/NA	Water	1664A	154686

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: SW-01-0

Date Collected: 12/26/12 08:03

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-1

Matrix: Solid

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.289 g	5 mL	154297	12/31/12 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			154301	12/31/12 18:05	AD	TAL DEN
Total/NA	Prep	3546			32.4 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 03:33	TDJ	TAL DEN
Total/NA	Analysis	8081A		5			154637	01/04/13 12:49	AMP	TAL DEN
Total/NA	Prep	8151A			50.9 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		5			154642	01/04/13 13:51	KJH	TAL DEN
Total/NA	Prep	3050B			1.18 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:15	HEB	TAL DEN
Total/NA	Prep	7471A			0.67 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 18:57	JM	TAL DEN
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

Client Sample ID: SW-01-4

Date Collected: 12/26/12 08:12

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-2

Matrix: Solid

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.126 g	5 mL	153919	12/27/12 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			153872	12/27/12 18:28	AD	TAL DEN
Total/NA	Prep	3546			30.4 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 03:54	TDJ	TAL DEN
Total/NA	Analysis	8081A		1			154637	01/04/13 13:05	AMP	TAL DEN
Total/NA	Prep	8151A			53.0 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		1			154642	01/04/13 15:00	KJH	TAL DEN
Total/NA	Prep	3050B			1.01 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:32	HEB	TAL DEN
Total/NA	Prep	7471A			0.55 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 19:08	JM	TAL DEN
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

Client Sample ID: SW-01-11

Date Collected: 12/26/12 08:19

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-3

Matrix: Solid

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.488 g	5 mL	153919	12/27/12 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			153872	12/27/12 18:47	AD	TAL DEN
Total/NA	Prep	3546			32.3 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 04:16	TDJ	TAL DEN
Total/NA	Analysis	8081A		1			154637	01/04/13 13:22	AMP	TAL DEN
Total/NA	Prep	8151A			52.2 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		1			154642	01/04/13 15:23	KJH	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: SW-01-11

Lab Sample ID: 280-37374-3

Date Collected: 12/26/12 08:19

Matrix: Solid

Date Received: 12/26/12 17:05

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:35	HEB	TAL DEN
Total/NA	Prep	7471A			0.60 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 19:11	JM	TAL DEN
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

Client Sample ID: SW-01-GW

Lab Sample ID: 280-37374-4

Date Collected: 12/26/12 09:45

Matrix: Water

Date Received: 12/26/12 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	154317	01/02/13 13:04	MRM	TAL DEN
Total/NA	Prep	3520C			1045.6 mL	1000 uL	154062	12/28/12 11:36	BMS	TAL DEN
Total/NA	Analysis	8270C		1			154290	12/31/12 23:21	DCK	TAL DEN
Total/NA	Prep	3010A			50 mL	50 mL	153928	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:46	HEB	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	154019	12/28/12 11:15	JM	TAL DEN
Dissolved	Analysis	7470A		1			154241	12/28/12 15:29	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	154016	12/28/12 11:15	JM	TAL DEN
Total/NA	Analysis	7470A		1			154241	12/28/12 15:52	JM	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	153929	12/28/12 12:00	RC	TAL DEN
Dissolved	Analysis	6010B		1			154339	12/31/12 20:11	HEB	TAL DEN
Total/NA	Analysis	SM 2540D		1	25 mL	250 mL	154143	12/28/12 16:10	MW	TAL DEN
Total/NA	Analysis	9040C		1			154179	12/29/12 12:14	DA	TAL DEN
Total/NA	Prep	1664A			572 mL	1000 mL	154686	01/04/13 13:00	AFB	TAL DEN
Total/NA	Analysis	1664A		1			154730	01/04/13 16:24	AFB	TAL DEN

Client Sample ID: NE-02-0

Lab Sample ID: 280-37374-5

Date Collected: 12/26/12 11:14

Matrix: Solid

Date Received: 12/26/12 17:05

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.506 g	5 mL	154326	01/02/13 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			154355	01/02/13 17:34	JR	TAL DEN
Total/NA	Prep	3546			32.1 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 04:37	TDJ	TAL DEN
Total/NA	Analysis	8081A		200			154637	01/04/13 13:39	AMP	TAL DEN
Total/NA	Prep	8151A			50.8 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		5			154642	01/04/13 15:45	KJH	TAL DEN
Total/NA	Prep	3050B			1.01 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:37	HEB	TAL DEN
Total/NA	Prep	7471A			0.60 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 19:13	JM	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: NE-02-0

Date Collected: 12/26/12 11:14

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

Client Sample ID: NE-02-4

Date Collected: 12/26/12 11:26

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-6

Matrix: Solid

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.989 g	5 mL	154326	01/02/13 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			154355	01/02/13 18:16	JR	TAL DEN
Total/NA	Prep	3546			31.4 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 04:58	TDJ	TAL DEN
Total/NA	Analysis	8081A		10			154637	01/04/13 13:56	AMP	TAL DEN
Total/NA	Prep	8151A			52.2 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		1			154642	01/04/13 16:08	KJH	TAL DEN
Total/NA	Prep	3050B			1.03 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:39	HEB	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 19:15	JM	TAL DEN
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

Client Sample ID: NE-02-9

Date Collected: 12/26/12 11:32

Date Received: 12/26/12 17:05

Lab Sample ID: 280-37374-7

Matrix: Solid

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.523 g	5 mL	154326	01/02/13 06:00	AD	TAL DEN
Total/NA	Analysis	8260B		1			154355	01/02/13 17:55	JR	TAL DEN
Total/NA	Prep	3546			30.8 g	10000 uL	153994	12/28/12 09:48	LC	TAL DEN
Total/NA	Analysis	8082		1			154408	01/03/13 06:02	TDJ	TAL DEN
Total/NA	Analysis	8081A		5			154637	01/04/13 14:46	AMP	TAL DEN
Total/NA	Prep	8151A			50.4 g	10000 uL	154354	01/02/13 12:00	DFB	TAL DEN
Total/NA	Analysis	8151A		1			154642	01/04/13 16:31	KJH	TAL DEN
Total/NA	Prep	3050B			1.03 g	100 mL	153926	12/28/12 12:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			154337	12/31/12 18:41	HEB	TAL DEN
Total/NA	Prep	7471A			0.61 g	50 mL	154028	01/02/13 11:30	JM	TAL DEN
Total/NA	Analysis	7471A		1			154492	01/02/13 19:18	JM	TAL DEN
Total/NA	Analysis	Moisture		1			154096	12/28/12 14:26	AFB	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: RMC Consultants Inc
Project/Site: U.S.6 at I-25

TestAmerica Job ID: 280-37374-2

Client Sample ID: NE-02-GW

Lab Sample ID: 280-37374-8

Date Collected: 12/26/12 13:05

Matrix: Water

Date Received: 12/26/12 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	154317	01/02/13 13:33	MRM	TAL DEN
Total/NA	Prep	3520C			1048.4 mL	1000 uL	154062	12/28/12 11:36	BMS	TAL DEN
Total/NA	Analysis	8270C		1			154290	12/31/12 23:40	DCK	TAL DEN
Total/NA	Prep	3010A			50 mL	50 mL	153928	12/28/12 07:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			154235	12/28/12 19:56	HEB	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	154019	12/28/12 11:15	JM	TAL DEN
Dissolved	Analysis	7470A		1			154241	12/28/12 15:31	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	154016	12/28/12 11:15	JM	TAL DEN
Total/NA	Analysis	7470A		1			154241	12/28/12 15:54	JM	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	153929	12/28/12 12:00	RC	TAL DEN
Dissolved	Analysis	6010B		1			154339	12/31/12 20:19	HEB	TAL DEN
Total/NA	Analysis	SM 2540D		1	25 mL	250 mL	154143	12/28/12 16:10	MW	TAL DEN
Total/NA	Analysis	9040C		1			154179	12/29/12 12:15	DA	TAL DEN
Total/NA	Prep	1664A			550 mL	1000 mL	154686	01/04/13 13:00	AFB	TAL DEN
Total/NA	Analysis	1664A		1			154730	01/04/13 16:24	AFB	TAL DEN

Laboratory References:

EMLab-OC = EMLab P&K Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



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Report for:

Donna Rydberg
TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

Regarding: Project: 280-37374-2
 EML ID: 1009888

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 01-03-2013

Technical Manager
Miguel Ines

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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EMLab P&K

3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626
(866) 465-6653 Fax (858) 569-5806 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-37374-2

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 01-03-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 2
Total Samples Analysed: 2
Total Samples with Layer Asbestos Content > 1%: 0

Location: SW-01-0 (280-37374-1)

Lab ID-Version‡: 4513286-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: NE-02-0 (280-37374-5)

Lab ID-Version‡: 4513287-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 758-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact: _____
Shipping/Receiving: _____
Company: _____
Address: _____
City: _____
State, Zip: _____
Phone: _____
Email: _____

Sampler: _____
Phone: _____

Lab Pak: _____
Ryderberg, Donna R
Email: donna_ryderberg@testamericadeno.com

Order Tracking Number: _____

Order No.: _____
Page: _____
Page 1 of 1

Order #: 290-37374-2
Date Requested: 11/22/12
TAT Requested (days): 7

Analysis Requested



Project Name: U.S.G. 11125
Site: _____
Project #: 29009391
SBOUR: _____

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, B=Bottom, M=Metal)
SW-01-0 (290-37374-1)	12/26/12	08:03		Solid
NE-02-0 (290-37374-5)	12/26/12	11:14		Solid

SUBCONTRACT/ Asbestos (PLM)

Special Instructions/Note:

- Preservation Codes:
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - NaHSO4
 - F - MeOH
 - G - Amelcor
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - M - Heptane
 - N - None
 - O - ASH2O2
 - P - NaOH/S
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Deionized
 - U - Acetone
 - V - NDA
 - W - pH 4.5
 - X - Other (Specify)

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Dispose By Lab Archive For _____ Months
Special Instructions/OC Requirements:

Requester	Date	Company	Received By	Date/Time	Company
Requester by: _____	12/27/12 1600	LAB	Received by: _____	12/27/12 1330PM	Company: _____
Requester by: _____		Company:	Received by: _____	Date/Time:	Company:

Login Sample Receipt Checklist

Client: RMC Consultants Inc

Job Number: 280-37374-2

Login Number: 37374

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampler ID JK
 Temperature on Receipt 21.0
 Drinking Water? Yes No

TAL-4124-280 (0508)

Client: **RMC Consultants, Inc**
 Address: **12295 W 48th Ave Unit A**
 City: **Wheat Ridge** State: **CO** Zip Code: **80033**
 Project Name and Location (State): **US6 at F-25**
 Contract/Purchase Order/Quote No.: **612.023154**

Project Manager: **Claude Murray** Date: **12/26/12**
 Telephone Number (Area Code)/Fax Number: **303.980.4101** Lab Number: **170750**
 Site Contact: **Jason Kahleff** Lab Contact: **Donna Rydberg**
 Carrier/Waybill Number: **Hand Delivered**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Special Instructions/ Conditions of Receipt						
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH									
SW-01-0	12/26/12	0803			X			4													
SW-01-4		0812			X			3													
SW-01-11		0819			X			3													
SW-01-GW		0945	X					5	Z	Z	3										
NE-02-0		1114			X			4													
NE-02-4		1126			X			3													
NE-02-9		1132			X			3													
NE-02-GW		1305	X					5	Z	Z	3										

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months Disposal By _____ Months longer than 1 month

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STD**

1. Relinquished By: **Stan Muel** Date: **12/26/12** Time: **1705**
 2. Relinquished By: **Jason Kahleff** Date: **12/26/12** Time: **1705**
 3. Relinquished By: **Jason Kahleff** Date: **12/26/12** Time: **1705**

Comments:

