Phase II Environmental Site Assessment with Additional Site Characterization: Ilex Bridge Reconstruction Project Pueblo, Colorado

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LIST OF ACRONYMS AND ABBREVIATIONS

ASTs	Aboveground Storage Tanks
ASTM	American Society of Testing and Materials
bgs	below ground surface
BNA	Base Neutral Acid
BTEX	Benzene, Toluene, Ethyl benzene and Total Xylenes
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
COC	Contaminant of Concern
CSEV	Colorado Soil Evaluation Values
DRO	Diesel Range Organics
USEPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ESC	Environmental Science Corporation Lab Sciences
eV	electron volt
GRO	Gasoline Range Organics
HASP	Health and Safety Plan
HMWMD	Hazardous Materials and Waste Management Division
I-25	Interstate 25
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
msl	mean sea level
MDL	Method Detection Limit
MMP	Materials Management Plan
NFA	No Further Action
OPS	Colorado Department of Labor and Employment Division of Oil and Public Safety
PAH	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
RSL	Regional Screening Level
RBSL	Risk-based Screening Levels
SCMP	Soil Characterization and Management Plan
Site	Ilex Bridge Reconstruction Project
SVOCs	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USTs	Underground Storage Tanks
VOCs	Volatile Organic Compounds
VCUP	Voluntary Clean-up Plan
Walsh	Walsh Environmental Scientists and Engineers, LLC

Executive Summary

This Phase II Environmental Site Assessment (ESA) of the Ilex Bridge Reconstruction Project was conducted for Colorado Department of Transportation (CDOT) Region 2 in Pueblo, Colorado. The following parcels to be acquired by CDOT will be used for reconstruction of the Ilex Bridge on Interstate 25 (I-25).

- Wagner Equipment, Inc. – 214 Ilex Street, Pueblo, Colorado
- Cliff Brice Stations, Inc. – 300 Moffat Street, Pueblo, Colorado
- Acorn Petroleum – 400 South Santa Fe Avenue, Pueblo, Colorado
- Speken Metal – 310 South Santa Fe Avenue, Pueblo, Colorado
- Iron Phoenix – No Address
- Rock Wool Industries – No Address
- West Hill – No Address

This Phase II ESA was conducted by Walsh Environmental Scientists and Engineers, LLC (Walsh) as a subconsultant to Jacobs Engineering Group under Jacobs Contract Number: 11 HA6 31672 OLA 321000274. This ESA was conducted during two separate phases; the first investigative phase (conducted in November, 2012) was to evaluate the presence and type of possible soil and/or groundwater contamination at each parcel, and the second investigative phase (conducted in March, 2013) was performed to further delineate the extent of the soil and/or groundwater contamination recognized in the first phase of sampling.

This Phase II ESA satisfies the Site Characterization requirements of the Colorado Department of Public Health and Environment (CDPHE) Voluntary Clean-up Program Application Guidance Document and Checklist, Appendix C.

First Phase

The first phase of the ESA focused on collecting soil and groundwater samples for laboratory analysis to evaluate possible soil and/or groundwater contamination from current and historic activities that could impact reconstruction activities on the Ilex Bridge Reconstruction Project and to provide a basis for future management of contaminants on the properties. This phase of the assessment was intended to be a screen for targeted contaminants and was not intended to be a comprehensive assessment for all contaminants on the properties.

The first phase of the ESA was conducted in accordance with the Sampling and Analysis Plan, Ilex Bridge Reconstruction Project, Pueblo, Colorado (Walsh 2012). Surface and/or subsurface soil samples were collected at 36 locations and groundwater samples were collected at 13 locations.

Second Phase

The second phase of the ESA focused on collection of additional soil and groundwater samples for laboratory analysis to further delineate the extent of contamination that was identified during the first phase of this Phase II ESA and provide additional data for use during the development of the Voluntary Clean-up Plan (VCUP) and Materials Management Plan (MMP).

The second phase of the ESA was conducted in accordance with the Sampling and Analysis Plan and Additional Site Characterization, Ilex Bridge Reconstruction Project, Pueblo, Colorado (Walsh 2013). Subsurface soil samples were collected at 41 locations and groundwater samples were collected at 7 locations.

Sample identities, laboratory analytical data, boring logs and field notes collected during this Phase II ESA are located in Appendices 1-3. From south to north along the project alignment, samples were collected on the Wagner Equipment Company, Acorn Petroleum, Cliff Brice, Speken Metal, Rock Wool and on a property west of I-25 referred to here as West Hill.

Sampling Rationale and Results

The results and conclusions in this Phase II ESA are based on a discrete number of soil and groundwater samples collected from specific locations. No geophysical investigation was conducted at any time, along the corridor during the Phase II ESA, and as a result, no conclusions can be drawn about the possible presence of sub-surface footings, foundations or other structures, other than those that can be concluded from the penetration of sampling equipment at sampled locations.

Sample locations and laboratory analyses were selected based on the proposed locations of structures on the Ilex Bridge Reconstruction Project, laboratory results of samples collected during the first phase of the ESA, input from CDPHE and CDOT and past uses of the different parcels in the project area. Samples collected on parcels with a history of fuel storage and distribution were analyzed for petroleum hydrocarbons and related constituents. Samples collected on parcels with a history of scrap metal collection were analyzed for metals and other constituents that may have been contained in metal equipment.

The following table lists the samples in which laboratory results indicate an exceedance of relevant industrial soil standards and Colorado Basic Standards for Groundwater for the specific compound. Sample results from the first and second phases of the project are included.

Table 1. Exceedances Listed by Property
First Phase of the ESA

Property	Sample ID	Media	Compound	Lab Result	Units	Standard

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Wagner	WR04 0-2	Soil	TPH-DRO	790	mg/kg	500
Acorn	A-01	Groundwater	Benzene	0.014	mg/L	0.005
Cliff Brice	CB01-9.0	Soil	Benzene	2.7	mg/kg	5.4
Cliff Brice	CB01-9.0	Soil	Ethyl benzene	40	mg/kg	27
Cliff Brice	CB01-9.0	Soil	TPH-GRO	2,400	mg/kg	500
Cliff Brice	CB01-9.0	Soil	TPH-DRO	2,900	mg/kg	500
Cliff Brice	CB05-9.0	Soil	Benzene	17	mg/kg	5.4
Cliff Brice	CB05-9.0	Soil	Ethyl benzene	45	mg/kg	27
Cliff Brice	CB05-9.0	Soil	TPH-GRO	2,700	mg/kg	500
Cliff Brice	CB05-9.0	Soil	TPH-DRO	2,700	mg/kg	500
Cliff Brice	CB07-9.0	Soil	TPH-GRO	3,900	mg/kg	500
Cliff Brice	CB07-9.0	Soil	TPH-DRO	3,900	mg/kg	500
Cliff Brice	CBP-03	Groundwater	Benzene	18	mg/L	0.005
Cliff Brice	CBP-03	Groundwater	Touluene	15	mg/L	1
Cliff Brice	CBP-03	Groundwater	Ethylbenzene	0.99	mg/L	0.7
Cliff Brice	CBP-04	Groundwater	Benzene	0.52	mg/L	0.005
Cliff Brice	CBP-05	Groundwater	Benzene	0.018	mg/L	0.005
Cliff Brice	CBP-06	Groundwater	Benzene	0.24	mg/L	0.005
Cliff Brice	CBP-06	Groundwater	Toluene	1.1	mg/L	0.56
Cliff Brice	CBP-06	Groundwater	Total Xylene	3.3	mg/L	1.4
Cliff Brice	CBP-07E	Groundwater	Benzene	0.11	mg/L	0.005
Speken Metal	**	Soil	Arsenic	2.2-110	mg/kg	1.6
Speken Metal	SI02-7.0	Soil	Lead	990	mg/kg	800
Speken Metal	SI03-2.0	Soil	Lead	1600	mg/kg	800
Speken Metal	SI04-2.0	Soil	Lead	5500	mg/kg	800
Speken Metal	SI04-9.0	Soil	Lead	1800	mg/kg	800
Speken Metal	SI07-7.0	Soil	Lead	1500	mg/kg	800
Speken Metal	SI08-2.0	Soil	Lead	3400	mg/kg	800
Speken Metal	SI09-2.0	Soil	Lead	2500	mg/kg	800
Speken Metal	SI04-2.0	Soil	PCBs	9.8	mg/kg	0.74
Speken Metal	SI04-2.0	Soil	PCBs	3.8	mg/kg	0.74
Speken Metal	SI04-9.0	Soil	PCBs	3.6	mg/kg	0.74
Iron Phoenix	**	Soil	Arsenic	1.5-140	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Iron Phoenix	IP02 0-2	Soil	Benzo(a)pyrene	0.47	mg/kg	0.21
Rock Wool	**	Soil	Arsenic	4.0-63	mg/kg	1.6
Rock Wool	RW03-2	Soil	Lead	1400	mg/kg	800
Rock Wool	RW03-9	Soil	Lead	2000	mg/kg	800

**Arsenic metals occur throughout the property in excess of the EPA RSL for industrial soils of 1.6 mg/kg

Second Phase of the ESA

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	WAMW4 4-6	Soil	Arsenic	6.2	mg/kg	1.6
Cliff Brice	WAMW4 8-10	Soil	Arsenic	1.8	mg/kg	1.6
Cliff Brice	WAMW5 4-6	Soil	Arsenic	3.9	mg/kg	1.6
Cliff Brice	WAMW5 8-10	Soil	Arsenic	2.4	mg/kg	1.6
Cliff Brice	WAMW4	Groundwater	benzo[a]anthracene	5.1	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[a]pyrene	6.2	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[b]fluoranthene	8	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Chrysene	5.5	ng/kg	4.8
Speken Metal	**	Soil	Arsenic	0.63-53.0	mg/kg	1.6
Speken Metal	SPKN10 1-2	Soil	Lead	1200	mg/kg	800
Speken Metal	SPKN11 1-2	Soil	Lead	2500	mg/kg	800
Speken Metal	SPKN18 1-2	Soil	Lead	910	mg/kg	800
Speken Metal	SPKN19 1-2	Soil	Lead	1600	mg/kg	800
Speken Metal	SPKN25 1-2	Soil	Lead	890	mg/kg	800
Speken Metal	SPKN26 1-2	Soil	Lead	1700	mg/kg	800
Speken Metal	SPKN26 7-8	Soil	Lead	8200	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead	6000	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead (TCLP)	130	mg/L	5
Speken Metal	SPKN28 1-2	Soil	Lead	27000	mg/kg	800
Speken Metal	SPKN28 1-2	Soil	Lead (TCLP)	54	mg/L	5
Rock Wool	**	Soil	Arsenic	6.0 - 40	mg/kg	1.6
Rock Wool	RW05 4-5	Soil	Lead	1700	mg/kg	800
Rock Wool	RW05 9-10	Soil	Lead	2400	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
West Hill	**	Soil	Arsenic	5.7-14	mg/kg	1.6

**Arsenic metals occur throughout the property in excess of the EPA RSL for industrial soils of 1.6 mg/kg

Contaminants of Concern in Soil

Wagner Property: One soil sample collected during the first phase of the ESA contained Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) at a concentration exceeding the 500 mg/kg Risk-Based Screening Level (RBSL) set by the Colorado Department of Labor and Employment Division of Oil and Public Safety (OPS), with a concentration of 790 mg/kg in sample WR-04-02.

Acorn Property: Soil samples collected during the first phase of the ESA contained TPH-DRO, TPH-GRO and BTEX in concentrations below their respective OPS RBSL and USEPA RSL values.

Cliff Brice Property: During the first phase of the ESA benzene, Toluene, Ethyl benzene and Total Xylenes (BTEX) were detected in soil at concentrations exceeding their respective United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL) Industrial Soil values in borings CB01, CB05 and CB07. TPH-GRO and TPH-DRO were detected in in borings CB01, CB05 and CB07 at concentrations exceeding the 500 mg/kg RBSL.

Soil samples collected during the second phase of the ESA contained arsenic in concentrations ranging from 1.8 mg/kg to 6.2 mg/kg, exceeding the RSL industrial soil (1.6 mg/kg) values in the four samples collected at WAMW4 and WAMW5.

Speken Metal Property: Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 2.2 mg/kg to 110 mg/kg in the surface and subsurface samples, exceeding the RSL industrial soil value of 1.6 mg/kg in 29 of the 32 samples submitted for laboratory analysis. Five samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the first phase of the ESA contained lead in seven samples exceeding the RSL industrial soil value of 800 mg/kg. Three samples also contained PCBs at concentrations exceeding the RSL industrial soil value of 0.74 mg/kg.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 0.63 mg/kg to 53.0 mg/kg exceeding the RSL industrial soil value of 1.6 mg/kg in 43 of the 45 samples. Furthermore, three samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

During the second phase of the ESA lead was detected in soil at a concentration of 1200 mg/kg in sample SPKN10 1-2 feet, at 2500 mg/kg in sample SPKN11 1-2 feet, at 910 mg/kg in sample SPKN18 1-2 feet, at 1600 mg/kg in sample SPKN19 1-2 feet, at 890 mg/kg in sample SPKN25 1-2 feet, at 1700 mg/kg in sample SPKN26 1-2 feet, at 8200 mg/kg in sample SPKN26 7-8 feet, at 6000 mg/kg in sample SPKN27 1-2 feet, and 27000 mg/kg in sample SPKN28 1-2 feet, which are greater than the RSL industrial soil value of 800mg/kg.

For waste disposal purposes, Toxic Leaching Characterization Procedure (TCLP) analysis was performed on the Speken Metal property samples that exceeded a lead concentration of 100 mg/kg. Two samples contained TCLP lead at concentrations exceeding 5 mg/L; samples SPKN27 1-2 feet at 130 mg/L and SPKN28 1-2 feet at 54 mg/L.

Iron Phoenix Property: Soil samples collected during the first phase of the ESA contained BNA Extractable compounds detected in numerous soil samples at concentrations exceeding their respective RSL industrial soil values; these are further discussed in detail in Section 7.3.

Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 1.5 mg/kg to 140 mg/kg exceeding the RSL Industrial Soil value of 1.6 mg/kg in 10 of the 16 samples. Furthermore, five samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

No additional investigative work was done on the Iron Phoenix property during the second phase of the ESA.

Rockwool: Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 4.0 mg/Kg to 63 mg/Kg exceeding the RSL Industrial Soil value of 1.6mg/kg in the six samples. Furthermore, two samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the first phase of the ESA contained lead at concentrations ranging from 51 mg/kg to 2000 mg/kg. Two of the six samples contained lead at concentrations greater than the 800 mg/kg RSL industrial soil value.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 6 mg/kg to 40 mg/kg exceeding the RSL Industrial Soil value of 1.6 mg/kg in the four samples. Furthermore, one sample contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the second phase of the ESA contained lead at concentrations ranging from 59 mg/kg to 2400 mg/kg in the four samples, exceeding the RSL industrial soil value of 800 mg/kg in two of the four samples.

West Hill: No investigative work was done on the West Hill property during the first phase of the ESA.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 5.7 mg/kg to 14 mg/kg exceeding the RSL industrial soil value of 1.6 mg/kg in the five samples. However, none of the samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Contaminants of Concern in Groundwater

Wagner Equipment Rental Property: Groundwater samples collected during the second phase of the ESA contained VOCs at concentrations below their respective Colorado Basic Standard for Groundwater values.

Acorn Property: Groundwater samples collected during the first phase of the ESA contained benzene at concentrations exceeded the Colorado Basic Standard for Ground Water (0.005 milligrams/liter (mg/L) in one of the two samples collected.

No additional investigative work was done on the Acorn property during the second phase of the ESA.

Cliff Brice Property: During the first phase of the ESA benzene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.005 mg/L in five of the seven samples collected. Toluene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.56 mg/L in two of the seven samples collected. Ethyl benzene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.70 mg/L in one of the seven samples collected. Total Xylene concentrations exceeded the Colorado Basic Standard for Ground Water of 1.40 mg/L in one of the seven samples collected at the Cliff Brice Property.

Groundwater samples collected during the second phase of the ESA contained benzo[a]anthracene at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L in sample WAMW4. Benzo[a]pyrene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 to 2,000 ng/L in sample WAMW4. Benzo[b]fluoranthene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L in sample WAMW4. Chrysene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L.

Speken Metal Property: Groundwater samples collected during the second phase of the ESA contained dissolved metals, VOCs, and PCBs at concentrations below their respective Colorado Basic Standard for Groundwater values.

Iron Phoenix Property: During the first phase of the ESA no Base Neutral Acid (BNA) Extractable Compounds were detected in groundwater at concentrations exceeding their respective laboratory method detection limit at the four monitoring wells installed at the Iron Phoenix Property. However, the laboratory method detection limits exceeded their respective Colorado Basic Standards for Ground Water for the following constituents:

> 2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrotoluene, 2,4,6-Trichlorophenol, 3,3-Dichlorobenzidine, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-chloroisopropyl) ether, Chrysene, Dibenzo(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamide, N-Nitrosodiphenylamine, and Pentachlorophenol.

No additional investigative work was done at the Iron Phoenix property during the second phase of the ESA.

No groundwater is expected to be consumed at the site and detected concentrations are not considered a worker hazard under current worker protection regulations. If higher concentrations are discovered during future work activities, worker protection procedures may be required. Any construction dewatering discharge of groundwater to surface water including storm drains will require a Colorado Wastewater Discharge Permit from the Water Quality Control Division. Discharge water will require sampling and monitoring and water quality will need to meet permit conditions.

Phase II Environmental Site Assessment
Ilex Bridge Reconstruction Project

1 INTRODUCTION

This Phase II Environmental Site Assessment (ESA) of the Ilex Bridge Reconstruction Project was conducted for the Colorado Department of Transportation (CDOT) on the Wagner Equipment, Acorn Petroleum, Cliff Brice, Speken Metal, Iron Phoenix, West Hill and Rockwool (collectively the Site) properties as well as portions of CDOT right-of way included in the project area. The parcels to be acquired by CDOT will be used for construction of the Ilex Bridge Reconstruction Project on Interstate 25 (I-25) in Pueblo, Colorado. This Phase II ESA was conducted by Walsh Environmental Scientists and Engineers, LLC (Walsh) as a subconsultant to Jacobs Engineering Group under Jacobs Contract Number: 11 HA6 31672 OLA 321000274. This Phase II ESA was conducted during two separate investigative phases; the first investigative phase (conducted November, 2012) was performed to determine the presence and type of possible soil and/or groundwater contamination at each parcel, and the second investigative phase (conducted March, 2013) was performed to further delineate the extent of the soil and/or groundwater contaminants.

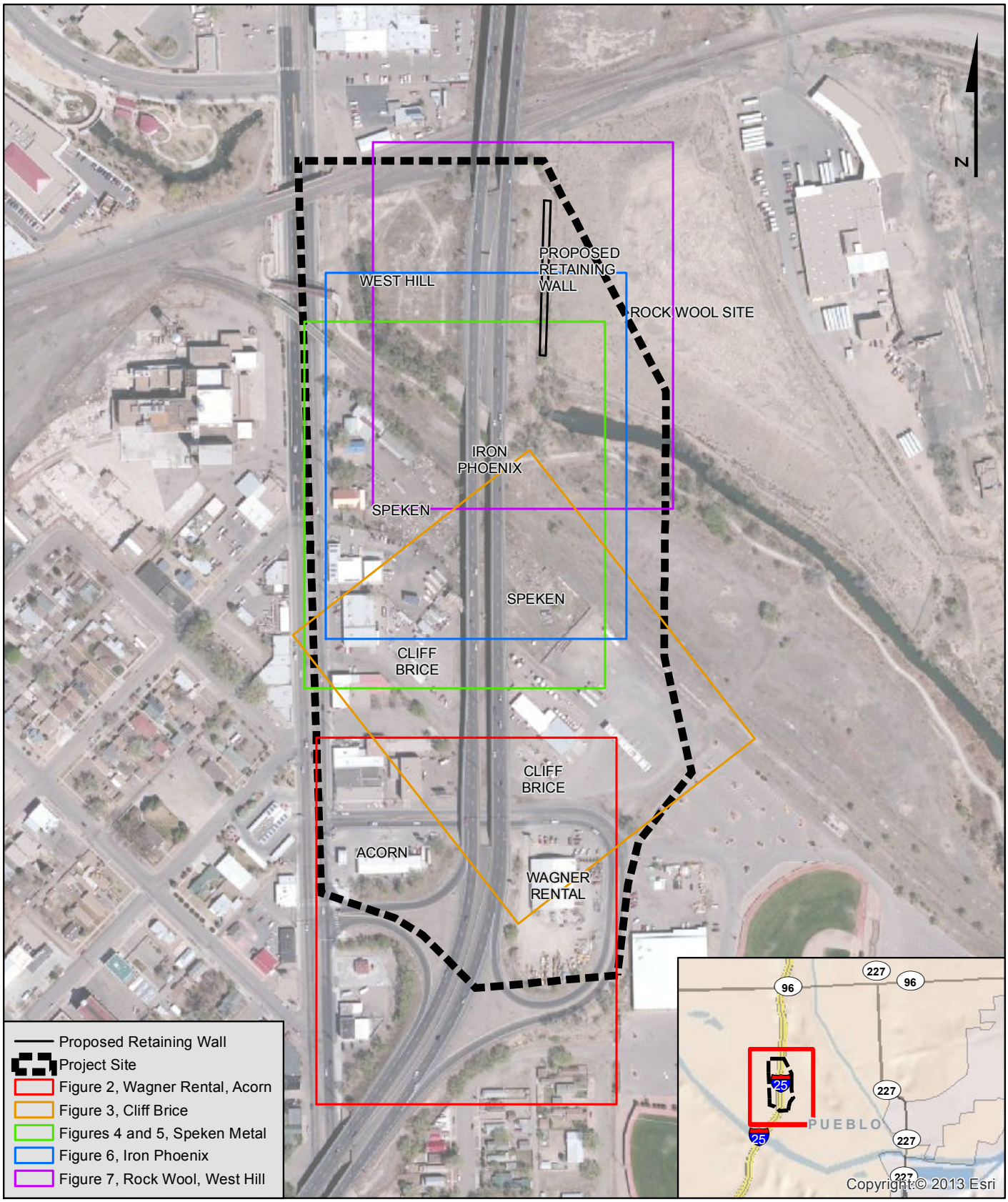
2 PROJECT OBJECTIVE

The objective of this Phase II ESA was to provide information concerning the possible presence of hazardous substances in soil and/or groundwater at the location of the Ilex Bridge Reconstruction Project along I-25 in Pueblo, Colorado. The presence of constituents in soils at concentrations exceeding the Environmental Protection Agency (EPA) Regional Screening Level (RSL), Colorado Department of Labor and Employment, Division of Oil and Public Safety (OPS) Risk-Based Screening Levels (RBSL), or in groundwater at concentrations exceeding the Colorado Basic Standards for Ground Water (CDPHE 2013) may make it necessary for CDOT to further characterize the extent and nature of that contamination, and/or to prepare a Materials Management Plan (MMP) and Health and Safety Plan (HASP) to be used during demolition and construction. Significant contamination may require CDOT to conduct remedial actions to comply with environmental regulations and/or protect worker and public health and safety.

For the purposes of this Phase II ESA, constituent concentrations in soil were compared to EPA RSL industrial values. Because the planned use of the site is for bridge reconstruction activities, the RSL industrial values were considered applicable in determining the need for remedial action or special material handling requirements. The EPA RSLs are also applicable to protect the current and future Site workers and anticipated future land use.

The sampling and analysis activities were planned and conducted using the findings of the Phase II Environmental Site Assessment: Ilex Bridge Reconstruction Project, Pueblo, Colorado (Walsh November 2012), the Phase I ESA for the Ilex Bridge Replacement (Pinyon 2011), Published Draft I-25 New Pueblo Freeway EIS and Appendices (EIS 2011), updated HazMat data from CH2MHill (HazMat 2011), existing CDOT right-of-way maps for parcels, meetings/discussions with CDPHE and CDOT, and agency file reviews.

Figure 1: Site Location Map
CDOT Ilex Bridge Reconstruction Project



NAD 1983 StatePlane Colorado South FIPS 0503 Feet

Walsh
an ecology and environment company
820 16th Street, Suite 400
Denver, Colorado 80202
Tele. 303-573-5545

0 200 400
Feet

Figure 1
Site Location Map
CDOT Ilex Bridge Project, Phase II ESA
Pueblo County, Colorado
WA-001925-0001-10TTO
April, 2013

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3 SITE DESCRIPTION

3.1 Site Location and Description

The Site is located along I-25 in Pueblo, Colorado. From south to north, the Site includes the parcels within the loop ramp that surrounds Wagner Equipment Company and continues to the north along I-25 to approximately the railroad right-of-way on the north side of the Rockwool/West Hill sites. The Site and properties located adjacent to or near the Site have historically been used for a variety of industrial and commercial operations including: heavy equipment rental and repairs, heavy railroad operations, oil and fuel storage and distribution, metal recycling and storage, and automotive repair. From south to north, the properties in the Site include Wagner Equipment Company, Acorn Petroleum, Cliff Brice, Speken Metal, Iron Phoenix properties, Rockwool site, and West Hill Properties. See Figure 1 for a map detailing the locations of each property.

Additional detailed site descriptions of the subject properties along the corridor are presented in the Phase I ESA prepared by Pinyon Environmental (Pinyon 2011) and the Hazardous Materials section of the Draft Environmental Impact Statement (CH2MHILL 2004).

3.2 Physical Setting

3.2.1 Topography

The Site lies within Section 31, Township 20 South, Range 64 West and Section 6, Township 21 South, Range 64 West. The Northeast Pueblo and Southeast Pueblo topographic quadrangles show that the elevation ranges from approximately 4,660 feet above mean sea level (msl) at the northwest end of the Site to 4,650 feet above msl at the southeast end. The topography in the vicinity of the site slopes generally to the southeast (Pinyon 2011). The Site is surrounded by commercial and industrial property.

3.2.2 Regional and Site Geology

The bedrock geologic unit beneath the Site is the Niobrara Formation is a shale and limestone unit deposited between 87 and 82 million years ago during the Coniacian, Santonian, and Campanian ages of the Late Cretaceous Period. The Niobrara Formation underlies much of the Great Plains of the US and Canada (USGS 1964).

Surface soils at the Site are described as the Glenberg-Haverson complex, which is composed of well-drained soil. This complex is present on low terraces along the rivers and creeks in this area. It is made up of 60 percent Glenberg fine sandy loam and 30 percent Haverson fine sandy loam. The slopes in the area are 0 to 2 percent.

The Glenberg series consists of deep, well-drained soil and are formed on flood plains in loamy alluvium. The slope is 0 to 2 percent, and elevation is 4,300 to 4,800 feet. In a representative profile, the surface layer is light brownish-gray fine sandy loam about 5 inches thick. Below that is pale-brown fine sandy loam stratified with loamy fine sand and loam that extends to a depth of 60 inches or more.

The Haverson series consists of deep, well-drained soil which also formed on flood plains in loamy alluvium. In a representative profile, the surface layer is light brownish-gray silt loam about 6 inches thick. The underlying material in the upper 9 inches is light brownish-gray silt loam. Below that is pale-brown fine silt loam, loam and fine sandy loam that extends to a depth of 60 inches or more (USDA 1979).

3.2.3 Hydrology

The closest surface water body to the Site is the historic Arkansas River channel, which is located adjacent to the northern properties in the project area. In 1921, a flood caused the Arkansas River to change its course from that location to its current location south of the project area.

During the first phase of the ESA, Walsh encountered water in the borings at depths ranging from 7 to 18 feet below ground surface (bgs).

During the second phase of the ESA, Walsh encountered water in the borings at depths ranging from 5.41 to 9.41 feet bgs.

4 POTENTIAL ENVIRONMENTAL CONCERNS

4.1 Potential Environmental Concerns

Several potential environmental concerns were identified for the properties located along the Ilex Bridge Reconstruction Project. Potential environmental concerns include concentrations of metals and organic compounds in soil that might exceed RSL industrial soil values. The origin of the contaminants of concern (COCs) in soil includes releases from documented and undocumented rail, industrial and commercial activities along the corridor. Another potential environmental concern is the possible presence of COCs at concentrations that exceed Colorado Basic values for Groundwater. Reconstruction of the Ilex Bridge will involve drilling piers or caissons that will likely encounter groundwater and could require construction dewatering. Discharging contaminated groundwater into surface waters is a potential environmental concern. The potential exposure pathways for workers include dermal contact of soil during construction activities, ingestion of soil during construction activities and possible contact with groundwater during construction which will all be addressed through completion of a MMP.

4.1.1 Wagner Equipment Company, 214 Ilex Street

Wagner Rental is a Small Quantity Generator (SQG) of hazardous waste with no listed violations. Current and historic site activities include heavy equipment maintenance, which requires the use and storage of petroleum products, solvents, paints, cleaners, and other regulated chemicals. The site is also located hydrologically down-gradient from several off-site properties to the northwest that could have contributed to groundwater contamination, depending on localized flow direction.

4.1.2 Acorn Property, 400 South Santa Fe Boulevard

Current and historic activities at the Acorn Property include petroleum product storage and distribution. There are six active underground storage tanks (USTs) at the site. The Acorn site is also located hydrologically down-gradient from several sites to the northwest that could have contributed to groundwater contamination, depending on localized flow direction. USTs at the Acorn site are currently being remediated by CDOT under the OPS standards and regulations.

4.1.3 Cliff Brice Property, 300 Moffat Street

Current and historic activities at Cliff Brice include petroleum product storage and distribution and historic train car painting operations on the southeastern corner of the site. There are four active USTs and twenty-two active Aboveground Storage Tanks (ASTs) at the site. The site is also located hydrologically down-gradient from several sites that could have contributed to groundwater contamination, depending on localized flow direction. USTs at the Cliff Brice site are currently being remediated by CDOT under the OPS standards and regulations.

4.1.4 Speken Metal Property, 310, 320, and 334 South Santa Fe Boulevard

Historic activities at the Speken Property include collection and storage of scrap metal, automobile parts, smelting waste and historic refuse disposal and possible operation of a petroleum fueling station.

4.1.5 Iron Phoenix Property, no address

The Iron Phoenix Property is located adjacent to and north of the Speken Property. The property is currently undeveloped with the exception of historic rails that are present on the surface to the east of the north-bound lanes of I-25. An historic investigation at the site which received a No Further Action (NFA) determination from the Colorado Division of Oil and Public Safety (OPS) indicated that a source up-gradient from the site is responsible for elevated selenium concentrations in the groundwater.

4.1.6 Rock Wool and West Hill Properties, no address

The Rock Wool facility is located along the eastern side of I-25 and consists of a waste pile containing slag, mineral fiber insulation and spherical grains of sand sized metallic

material located along the western 12 acres of the Rock Wool Property adjacent to the current I-25 alignment. The waste pile was landfilled onsite by re-grading the material and installing a cover system comprised of a layer of fill overlain by a layer of compacted clay, a geotextile drainage layer and rock mulch. According to the database search, a removal action occurred at the Rock Wool Industries Site in August 1997, and the site was archived in the CERCLIS-NFRAP database in August 2000. The West Hill parcel is located at the northern extent of the project on the west side of I-25.

5 SAMPLING DESIGN

First Phase

Sample locations chosen during the first phase of the ESA were selected to evaluate the potential for possible soil and/or groundwater contamination from past activities that could have the potential to impact reconstruction of the Ilex Bridge along I-25.

Sampling and analysis activities during the first phase of the ESA were chosen to address those environmental concerns identified in the Phase I Environmental Site Assessment for the Ilex Bridge Replacement Phase I ESA (Pinyon 2011), Published Draft I-25 New Pueblo Freeway EIS and Appendices (EIS, 2011), updated HazMat data from CH2MHill (CH2MHILL, 2004), existing CDOT right-of-way plans, and agency file reviews. Specific locations of soil borings and groundwater samples were chosen based on the knowledge of potential sources of soil and groundwater contamination identified in the publications listed above.

Second Phase

Sampling locations chosen during the second phase of the ESA were selected to further delineate the extent of the soil and/or groundwater contamination discovered during the first phase of the ESA.

Sampling and analysis activities during the second phase of the ESA were chosen based on sampling and analytical results obtained from the first phase of the ESA and discussions with CDPHE regarding the planned Voluntary Clean-up Plan (VCUP) application and Materials Management Plan (MMP) for the Site. Specific locations of soil borings and permanent groundwater monitoring wells were chosen based on current CDOT project construction design, future use of the Site, contamination identified during the first phase of the ESA, and sampling guidance and input from CDPHE.

The conceptual site model of the area is based on the assumption that past activities may have contaminated surface and subsurface soil and shallow (alluvial) groundwater along the Ilex Bridge Reconstruction Project segment of the I-25 corridor. Contamination of soils and groundwater may extend into bedrock, which lies beneath the shallow groundwater table at the Site.

Sample locations (Figure 2, 3, 4, 5, 6, 7 and 8) were chosen to evaluate soil and groundwater for specific contaminants in the vicinity of the proposed Ilex Bridge Reconstruction Project.

5.1 Potential Exposure Pathways

The primary pathways for potential exposure to future construction workers, CDOT employees, or commuters on I-25, are expected to be through dermal contact, inhalation, or ingestion of contaminated soils, primarily during construction or similar activities. There is potential for exposure of construction workers to surface and subsurface soil, and groundwater along the Ilex Bridge Reconstruction Project. There is no known use of groundwater at the Site.

5.2 Sequence of Work Plan Elements

Soil and groundwater sampling during the first phase of the ESA followed a sequence developed to screen the soil and groundwater at the parcels of the Ilex Bridge project site. The actual order of sampling, analysis, and data evaluation was as follows:

- Utility locations,
- Initial inspection of properties and project corridor,
- Observation and monitoring of CDOT geotechnical borings with a Photoionization Detector (PID),
- Selection of soil boring locations,
- Collection, PID monitoring and analysis of surface soil samples from soil borings,
- Collection, PID monitoring and analysis of subsurface soil samples from soil borings,
- Selection of groundwater sample locations where caissons or subsurface structures may encounter groundwater, and
- Selection of groundwater sample locations at Cliff Brice Property to facilitate groundwater mapping and to obtain representative samples near potential contaminant sources.

Soil and groundwater sampling during the second phase of the ESA was developed to delineate contamination recognized during the first phase of the ESA. The actual order of sampling, analysis, and data evaluation was as follows:

- Analysis and data evaluation of soil and groundwater sampling completed during the first phase of the ESA,
- Development of the second phase of soil and groundwater sampling plan with input from CDOT and CDPHE,
- Utility locations,
- Collection, PID monitoring and analysis of subsurface soil samples from soil borings at the Speken Metal, Cliff Brice, Wagner Rental, West Hill and Rock Wool properties, and

- Installation, development and sampling of permanent groundwater monitoring wells at the Speken Metal, Cliff Brice and Wagner Rental properties

5.3 Laboratory Analysis Methods

Tables 8-19 show the laboratory reporting limits of the analytical methods specified in this Phase II ESA for potential soil and groundwater contaminants anticipated on the Ilex Bridge Project. The tables present reporting limits provided by Environmental Science Corporation (ESC) Lab Services and Test America, Inc.

Tables 8-19 also show the EPA RSL industrial soil values for potential COCs. For most of the known and probable contaminants, method detection limits (MDLs) of the specified analytical methods are lower than applicable actions levels for soil and groundwater. RSL values for certain organic compounds are lower than MDLs for listed methods. However, the MDLs are adequate for purposes of assessing concentrations and applicable cleanup values that consider risk and background factors.

5.4 Sampling and Analysis of Soils

First Phase

Both surface and subsurface soil samples were collected. Soil samples were screened in the field for Volatile Organic Compound (VOC) concentrations using a PID. The interval with the highest PID reading was selected for laboratory analysis. Soil samples were placed in laboratory provided sample containers and submitted under chain-of-custody to ESC Lab Services of Mt. Juliet, Tennessee for analysis.

Soil borings were completed by Drill Pro Services, Inc., a subcontractor to Walsh. Borings were advanced by rotary auger method using a drill rig operated by a two-person crew. Borings were advanced using 4-inch hollow stem augers to the desired depth at each location. Soil samples were collected using a percussion-driven 24-inch stainless steel split spoon sampler. Split spoon samplers were decontaminated after collection of each sample using a detergent (Alconox) and rinsed with deionized water. Borings and soil samples were logged in the field according to the Unified Soil Classification System (USCS) to describe the geology of the unconsolidated materials. Boring terminus was reached after encountering saturated conditions, bedrock, or equipment refusal. Copies of soil boring logs are included in Appendix 2.

Soil samples were collected from each depth interval and field screened for the presence of VOCs with a PID. Samples designated for PID headspace screening were visually inspected for any evidence of contamination, then transferred into a zip lock bag, sealed, and allowed to volatilize for several minutes prior to field screening. Headspace was measured using a field calibrated Multi Rae Plus™ brand PID. Observations and PID readings were recorded in the field log book presented in appendix 1 and on the soil boring logs presented in appendix 2.

Intervals selected for sample collection were based on possible distribution of contaminants near the groundwater table and on field observations made by the geologist. The number and depth of samples selected varied, based on the historical use of each property and on field observations made at each boring location. Soil boring logs are presented in Appendix 2.

Second Phase

Subsurface samples were collected from Speken Metal, Cliff Brice, Rock Wool, West Hill and Wagner Rental properties. Soil samples were screened in the field for Volatile Organic Compound (VOC) concentrations using a PID. Soil samples were placed in laboratory provided sample containers and submitted under chain-of-custody to Test America, Inc. for analysis.

Soil borings were completed by Drill Pro Services, Inc., a subcontractor to Walsh. Borings were advanced by direct push method using a Hurricane drill rig operated by a two-person crew. Borings were advanced using a 1-1/4 inch geo-probe equipped with disposable acetate liners. Borings and soil samples were logged in the field according to the Unified Soil Classification System (USCS) to describe the geology of the unconsolidated materials.

Soil samples were collected from each depth interval and field screened for the presence of VOCs with a PID. Samples designated for PID headspace screening were visually inspected for any evidence of contamination, then transferred into a Ziplock® bag, sealed, and allowed to volatilize for several minutes prior to field screening. Headspace was measured using a field calibrated Multi Rae Plus™ brand PID. Observations and PID readings were recorded in the field log book.

Intervals selected for sample collection were based on review of laboratory data obtained from the first phase of the ESA, CDOT and CDPHE input, and on field observations made by the geologist. Copies of soil boring logs and field observations are included in Appendix 1.

See tables 2 and 3 for a summary of soil sample identifications and laboratory analysis method performed for each sample.

5.4.1 Soil Sampling and Laboratory Analysis for Metals

First Phase

During the first phase of the ESA surface and subsurface soil samples collected for metals analysis were collected at 18 locations during this investigation. Locations were selected based on historical use of each property and possible presence of metals in soil. Soil samples for analysis of metals were collected using a split spoon sampler during

borehole advancement. Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis of metals by USEPA Method 6010B.

Second Phase

Speken Metal Property: During the first phase of the ESA soil samples collected at the Speken property indicate elevated levels of arsenic, lead, and PCBs throughout the property. To further evaluate the extent of the contamination Walsh, with input from CDOT and CDPHE, divided the property into 32 ~5,000 square foot grids (approximately 70'x70') and collected 5-part composite samples from each grid for analysis of total metals. Five borings within each grid were advanced to a depth of 2 feet below ground surface (bgs) and the 1-2 foot soil interval was removed from the acetate liner and placed in a Ziplock® bag for PID headspace readings and composite sample mixing. In addition to the composite metal samples taken from each of the 31 grids nine composite TCLP lead samples were collected from the 1-2 foot interval for waste characterization purposes. Ten additional samples were analyzed for TCLP lead based on total lead concentrations.

Walsh understands that one possible bridge design calls for caissons to be drilled and installed to a depth of approximately 10 feet bgs near the future bridge footings. In these areas, which are covered by 6 grids, the geo-probe sampler was advanced to a depth of 10 feet bgs within each pre-marked grid and soil samples were collected at depths of 4-6 feet and 8-10 feet bgs. Grab samples were collected from the acetate liners for analysis of metals from these intervals. In addition to the metal samples, one TCLP sample was collected from the 4-6 foot interval for waste characterization.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis of metals by USEPA Method 6010B and 7471A.

Rock Wool and West Hill

Subsurface soil samples were collected at 7 locations during the second phase of this investigation at the Rock Wool and West Hill properties for analysis of total metals. Soil samples for analysis of metals were collected using a geo-probe sampler during borehole advancement.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis of metals by USEPA Method 6010B.

5.4.2 Soil Sampling and Laboratory Analysis for BTEX, TPH-DRO and TPH-GRO

During the first phase of the ESA subsurface soil samples were collected at 18 locations during this investigation and were submitted for analysis for Benzene, Toluene, Ethyl benzene and Xylenes (BTEX), DRO and GRO. Locations were selected based on current and historical use of fuels and storage of fuels on different properties.

During the second phase of the ESA subsurface samples were collected at 5 locations on the Wagner Rental and Cliff Brice properties for analysis for GRO and DRO. Locations were selected based on laboratory results of samples collected during the first phase of the ESA.

Soil samples collected from each sample location were field screened with a PID for the presence of VOCs. Soil samples were initially split for field screening and quantitative analysis for the presence of VOCs. Samples designated for headspace readings were visually inspected for evidence of contamination, then transferred into a Ziplock® bag, sealed, and allowed to volatilize for several minutes prior to field screening. Headspace was measured using a field calibrated Multi Rae Plus™ instrument with the results being recorded in the daily field logs.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis by USEPA Methods 8021, 8015 and 3446.

5.4.3 Soil Sampling and Laboratory Analysis for Base Neutral/ Acid Extractable Compounds (BNAs)

During the first phase of the ESA surface and subsurface soil samples were collected at seven locations during this investigation and were submitted for analysis for BNAs. Locations were selected based on historical use of each property and potential presence of BNAs in soil. Soil samples for analysis of BNAs were collected using a split spoon sampler during borehole advancement.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody to ESC for analysis of BNAs by USEPA Methods 8270.

5.4.4 Soil Sampling and Laboratory Analysis for Polychlorinated Biphenyls (PCBs)

During the first phase of the ESA surface and subsurface soil samples were collected at 11 locations and were submitted for analysis for PCBs. Locations were selected based on historical use of each property and potential presence of Polychlorinated Biphenyls (PCBs) in soil. Soil samples to be analyzed for PCBs were collected using a split spoon sampler during borehole advancement.

During the second phase of the ESA subsurface samples were collected at 9 locations and were submitted for analysis for PCBs. Locations were selected based on laboratory results of samples collected during the first phase of the ESA.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis of PCBs by USEPA Methods 8082.

5.4.5 Soil Sampling and Analysis for Polycyclic Aromatic Hydrocarbons (PAHs) and Volatile Organic Compounds (VOCs)

During the second phase of the ESA subsurface samples were collected at ten locations on the Wagner Rental, Cliff Brice and Speken Metal properties and were submitted for analysis of PAHs and/or VOCs. Locations were selected based on laboratory results of samples collected during the first phase of the ESA. Soil samples to be analyzed for PAHs and VOCs were collected using a geo-probe sampler equipped with a disposable acetate liner during direct push borehole advancement. Soil samples collected from each sample location were field screened with a PID for the presence of VOCs. Soil samples were initially split for field screening and quantitative analysis for the presence of VOCs. Samples designated for headspace readings were visually inspected for evidence of contamination, then transferred into a Ziplock® bag, sealed, and allowed to volatilize for several minutes prior to field screening. Headspace was measured using a field calibrated Multi Rae Plus™ instrument with the results being recorded in the daily field logs.

Samples were placed in laboratory provided containers, labeled and delivered under chain of custody for analysis of PAHs and VOCs by USEPA Methods 8260B and 8270C.

See tables 2 and 3 for a summary of soil sample identifications and laboratory analysis method performed for each sample.

5.5 Sampling and Analysis of Groundwater

First Phase

During the first phase of the ESA temporary 1-inch diameter wells were installed in order to sample groundwater at select locations and depths along Ilex Bridge Project properties (figure 1).

Prior to sampling, temporary well locations were gauged for depth to groundwater and total well depth using a Solinst water level probe. Groundwater was encountered at depths ranging from 7 feet to 18 feet bgs. Where possible, approximately three well casing volumes of groundwater were purged prior to sampling to obtain a representative groundwater sample. Field observations such as turbidity, color and odor were recorded in daily field logs. See table 6 for groundwater elevations measured during the first phase of the ESA.

Groundwater samples collected for laboratory analysis were obtained using a peristaltic pump. The pump was decontaminated before use and after collection of each sample. New tubing was used for each well. Groundwater samples were placed into laboratory supplied containers, labeled, placed on ice in an insulated cooler, and transported under COC to ESC of Mt. Juliet, Tennessee for analysis.

Second Phase

During the second phase of the ESA permanent 2-inch wells were installed at the Speken Metal, Cliff Brice and Wagner Rental Properties. Locations of these wells were selected based on sampling and laboratory analysis data obtained from the first phase of the ESA.

Prior to sampling, permanent well locations were gauged for depth to groundwater and total well depth using a Solinst water level probe. Groundwater was encountered at depths ranging from 5.41 feet to 8.43 feet bgs. Where possible, approximately three well casing volumes of groundwater were purged prior to sampling to obtain a representative groundwater sample. Field observations such as turbidity, color and odor were recorded in daily field logs. See table 7 for groundwater elevations measured during the second phase of the ESA.

Groundwater samples collected for laboratory analysis were obtained using a peristaltic pump. The pump was decontaminated before use and after collection of each sample. New tubing was used for each well. Groundwater samples were placed into laboratory supplied containers, labeled, placed on ice in an insulated cooler, and transported under COC to Test America of Arvada, Colorado for analysis.

See tables 4 and 5 for a summary of groundwater sample identifications and laboratory analysis method performed for each sample.

6 FIELD OBSERVATIONS, FIELD AND LABORATORY ANALYSIS RESULTS

6.1 Field Observations

Spatial locations of the soil and groundwater samples are shown in Figures 2 through 8.

Boring Logs and Groundwater Sampling Logs for the subsurface borings and groundwater sample locations are presented in Appendix 2. Information regarding total depth, sample types and intervals, odors and colors of encountered soil and water, and any other field screening observations are included in these logs.

Monitoring of Geotechnical Borings

As part of the first phase of this investigation, Walsh performed monitoring for VOCs during drilling of geotechnical borings performed by CDOT from July 9 through 18, 2012. Monitoring of geotechnical and environmental borings was conducted under the guidance of the Health and Safety Monitoring Plan During Geotechnical Drilling, Ilex Bridge Project, Pueblo, Colorado (Walsh, July 17, 2012). Utility clearances were obtained prior to drilling of geotechnical and environmental borings. CDOT collected soil samples from eight borings on the Cliff Brice, Speken and Iron Phoenix properties

for geotechnical testing purposes. Walsh visually logged the soil, noting the presence of soil staining, if any, and hydrocarbon or unusual odors. Geotechnical borings were advanced using a rotary auger drill rig operated by a drill operator and a helper.

Measurements for VOCs were collected using a hand held PID with a 10.6 electron volt (eV) lamp. Measurements were taken within the breathing zone in the work area at 5-foot intervals. Field observations, soil type and PID readings were recorded by Walsh personnel on logs in the field. Information collected during this monitoring event was used to select locations for subsequent soil and groundwater samples during the Phase II investigation. Stained soil and VOCs were documented in several soil borings during this investigation under the elevated portion of I-25. Copies of field logs completed during this monitoring event are included in Appendix 2.

6.2 Site Geology and Hydrology

Soil observed in the borings and temporary monitoring wells in the vicinity of the Ilex Bridge Reconstruction Project generally consisted of silty sands, silty gravels and gravelly sand. Groundwater was encountered at depths ranging from 7 to 18 feet bgs.

During the first phase of the ESA Groundwater samples were collected for laboratory analysis from the 13 wells installed along the proposed Ilex Bridge Site. The direction of the groundwater flow across the site is generally to the south-southwest. Groundwater flow direction was determined using measured groundwater elevations (feet above mean sea level) shown in Figure 5. Depth to groundwater was measured in each well from surveyed top of casing using a Solinst water level probe.

6.3 Results of Laboratory Analysis of Soil and Groundwater Samples

Tables 8 through 19 include summary results of laboratory analyses of soil and groundwater samples. Laboratory analytical reports are located in Appendix 3.

7 LABORATORY DATA

This section includes a detailed summary of the results of laboratory analysis of soil and groundwater samples collected on the project. Soil and groundwater sample analytical results for the project are included in tables in 8 through 19. Laboratory Quality Assurance/Quality Control (QA/QC) procedures are documented at the end of each laboratory report, the results of which are summarized in the laboratory reports in Appendix 3.

7.1 Metals in Soil

Cliff Brice Property

Soil samples at two locations adjacent to the Speken Metal property (Figure 3) were analyzed for metals during the second phase of the ESA. Arsenic concentrations ranged from 1.8 mg/kg to 6.2 mg/kg which exceed the RSL industrial soil value of 1.6 mg/kg, but less than the CDPHE VCUP high background concentration of 25 mg/kg.

Samples submitted for laboratory analysis were analyzed by USEPA Method 6010B. Soil sample analytical results for metals at the Cliff Brice are presented in Table 9.

Speken Metal Property

First Phase
Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from not detected to 110 mg/kg, exceeding the RSL industrial soil value (1.6 mg/kg) in 29 of 32 samples. Arsenic was not detected in the remaining three samples at the laboratory detection limit of 1.0 mg/kg. Five samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Lead was detected in soil at a concentration of 990 mg/kg in sample SI02-7 5-7 feet, at 5500 mg/kg in sample SI04-2 0-2 feet, at 1800 mg/kg in sample SI04-9 7-9 feet, at 1500 mg/kg in sample SI07-7 5-7 feet, and 3400 mg/kg in sample SI08-2 0-2 feet, which are greater than the RSL industrial soil value of 800 mg/kg.

Second Phase
Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 0.63mg/kg to 53 mg/kg, exceeding the RSL industrial soil value (1.6 mg/kg) values in 43 of the 45 samples. Arsenic was detected at 0.63 mg/kg and 1.2 mg/kg in the remaining two samples. Three samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Lead was detected in soil at a concentration of 1200 mg/kg in sample SPKN10 1-2 feet, at 2500 mg/kg in sample SPKN11 1-2 feet, 910 mg/kg in sample SPKN18 1-2 feet, at 1600 mg/kg in sample SPKN19 1-2 feet, at 890 mg/kg in sample SPKN25 1-f feet, at 1700 mg/kg in sample SPKN26 1-2 feet, at 8200 mg/kg in sample SPKN26 7-8 feet, at 6000 mg/kg in sample SPKN27 1-2 feet, and 27000 mg/kg in sample SPKN28 1-2 feet, which are greater than the RSL industrial soil value of 800 mg/kg. SPKN 27 1-2 feet and SPKN28 1-2 feet also exceeded the Toxic Leaching Characterization Procedure (TCLP) standard for lead of 5 mg/kg at 130 mg/kg and 54 mg/kg, respectively.

Samples submitted for laboratory analysis were analyzed by USEPA Methods 6010B and 7471A. Soil sample analytical results for metals at the Speken Metal property are presented in Table 11 and exceedences of soil standards are shown on Figure 6.

Iron Phoenix Property

Soil samples collected during the first phase of the ESA contain arsenic at concentrations ranging from 1.5 milligrams per kilogram (mg/kg) to 140 mg/kg, exceeding the RSL industrial soil value (1.6mg/kg) in 10 of the 16 samples. Arsenic was not detected in the remaining 5 samples at the laboratory detection limit of 1.0 mg/kg, which exceeds the RSL industrial soil value (1.6mg/kg).

Lead was not detected in the 16 samples at concentrations exceeding the RSL industrial soil value of 800 mg/kg.

Samples submitted for laboratory analysis were analyzed by USEPA Method 6010B. Soil sample analytical results for metals at the Iron Phoenix property are presented in table 12 and exceedences are shown on Figure 7.

Rockwool/West Hill Properties

First Phase
During the first phase of the ESA arsenic was detected in the six samples at concentrations ranging from 4.0 mg/kg to 63 mg/kg. The six samples contained arsenic at concentrations greater than the RSL industrial soil value of 1.6 mg/kg.

Lead was detected in the six samples at concentrations ranging from 51 mg/kg to 2000 mg/kg. Two of the six samples contained lead at concentrations greater than the 800 mg/kg RSL industrial soil value (Figure 8).

Second Phase
During the second phase of the ESA arsenic was detected in the nine samples at concentrations ranging from 6.0 mg/kg to 40 mg/kg. The nine samples contained arsenic at concentrations greater than the RSL industrial soil value of 1.6 mg/kg.

Lead was detected in the nine samples at concentrations ranging from 59 mg/kg to 2400 mg/kg. Two of the nine samples contain lead at concentrations greater than the 800mg/kg RSL industrial soil value.

Samples submitted for laboratory analysis were analyzed by USEPA Method 6010B. Soil sample analytical results for metals at the Rock wool and West Hill properties are presented in Tables 13 and 14 and on Figure 8.

7.2 BTEX, TPH-DRO, and TPH-GRO in Soil

Soil samples collected at the Wagner Equipment Company, Acorn and Cliff Brice properties were analyzed for BTEX, TPH-DRO and TPH-GRO. The following samples contained these constituents at concentrations exceeding their respective OPS RBSL values and/or EPA RSL industrial soil values in the following borings:

Wagner Equipment Company Property

During the first phase of the ESA TPH-DRO was detected in sample WR-04-2 collected on the Wagner Equipment Company property at a concentration of 790 mg/kg, which is above the 500 mg/kg RBSL set by the Colorado Department of Labor and Employment Division of Oil and Public Safety (OPS).

Soil sample analytical results for BTEX, TPH-DRO and TPH-GRO at the Wagner Equipment property are presented in Table 9 and on Figure 2.

Cliff Brice Property
During the first phase of the ESA benzene was detected in sample CB05-9 at a concentration of 17 mg/kg, which is above the RSL industrial soil value of 5.4 mg/kg. TPH-GRO was detected on the Cliff Brice Property in sample CB01-9 at a concentration of 2,400 mg/kg, which is above the 500 mg/kg RBSL set by the OPS. TPH-DRO was also detected in this sample at a concentration of 2,900 mg/kg, which is above the RBSL. TPH-GRO and TPH-DRO were both detected in sample CB05-9 at a concentration of 2,700 mg/kg, which is above the 500 mg/kg RBSL. TPH-GRO and TPH-DRO were both detected in sample CB07-9 at a concentration of 3,900 mg/kg, which is above the 500 mg/kg RBSL. TPH-GRO and TPH-DRO were also detected at concentrations below the RBSL in eight other soil samples at the Cliff Brice Property.

Soil sample analytical results for BTEX, TPH-DRO and TPH-GRO at the Cliff Brice, Acorn and Wagner Equipment Rental properties are presented in Table 9 and on Figure 3.

Further sampling for petroleum related constituents in soil and groundwater was not conducted on the Cliff Brice property during the second phase of the ESA because investigation and closure of the site related to USTs and ASTs is being conducted by the CDOT Property Management group. Closure of the Cliff Brice property under OPS guidelines will be conducted by another consultant.

Acorn Property
During the first phase of the ESA TPH-DRO and TPH-GRO were detected in five of the 12 samples at the Acorn Property at concentrations below the 500 mg/kg RBSL set by OPS.

Soil sample analytical results for BTEX, TPH-DRO and TPH-GRO at the Cliff Brice Property are presented in Table 10.

No further sampling of soil or groundwater was conducted on the Acorn property during the second phase of the ESA.

7.3 Base Neutral Acid Extractable Compounds in Soil

BNA Extractable compounds were detected in the following samples and concentrations were compared to their respective RSL industrial soil values.

Iron Phoenix Property

During the first phase of the ESA benzo(a)pyrene was detected in IP02 0-2FT at 0.47 mg/kg, in IP02 5-7FT at 0.26 mg/kg, in IP03 0-2FT at 0.053 mg/kg and in IP04 15-17FT at 0.047 mg/kg which is above the RSL industrial soil value of 0.21 mg/kg.

The following compounds sampled during the first phase of the ESA were either detected below their respective RSLs, have no RSL value, or the laboratory method detection limit exceeded the respective RSLs:

Benzo(a)anthracene was detected in IP02 0-2FT at 0.40 mg/kg and IP02 5-7FT at 0.23 mg/kg which are below the RSL industrial screening level of 2.1 mg/kg.

Benzo(b)flouranthene was detected in IP01 5-7FT at 0.7 mg/kg, in IP02 0-2FT at 1.0 mg/kg, in IP02 5-7FT at 0.57 mg/kg and in IP04 0-2FT at 0.44 mg/kg, which are below their RSL industrial soil level of 2.1 mg/kg.

Benzo(k)flouranthene was detected in IP02 0-2FT at 0.34 mg/kg and in IP02 5-7FT at 0.2 mg/kg, which are below the RSL industrial soil value of 21 mg/kg.

Chrysene was detected in IP02 0-2FT at 0.53 mg/kg, in IP02 5-7FT at 0.33 mg/kg, in IP03 0-2FT at 0.062 mg/kg, in IP04 0-2FT at 0.43 mg/kg, in IP04 5-7FT at 0.074 mg/kg and in IP04 15-17FT at 0.088 mg/kg, which are below the RSL industrial soil value of 210 mg/kg.

Flouranthene was detected in IP01 5-7FT at 0.85 mg/kg, IP02 0-2FT at 0.57 mg/kg, IP02 5-7FT at 0.26 mg/kg, IP03 0-2FT at 0.11 mg/kg, IP04 0-2FT at 0.43 mg/kg and IP04 15-17FT at 0.11 mg/kg, which are below the RSL industrial soil value of 22,000 mg/kg.

Hexachlorobenzene was not detected at concentrations above the method detection limit in the samples collected at the Iron Phoenix Property. The method detection limit exceeded the RSL industrial soil value of 1.1 mg/kg in the following non detection samples: IP01 5-7FT, IP01 15-17FT, IP02 0-2FT, IP02 10-12FT, IP03 5-7FT, IP03 15-17FT and IP04 0-2FT.

Naphthalene was detected in IP04 15-17FT at 0.041 mg/kg, which is below the RSL industrial soil value of 18 mg/kg.

N-Nitrosodimethylamine and N-nitrosodi-n-propylamide were not detected at concentrations above their respective method detection limits in the samples collected at the Iron Phoenix Property. The method detection limit exceeded the RSL industrial soil value of 0.034 mg/kg and 0.25mg/kg, respectively, in the 16 samples collected at the Iron Phoenix Property.

Pentachlorophenol was not detected at concentrations above the method detection limit in the samples collected at the Iron Phoenix Property. The method detection limit exceeded

the RSL industrial soil value of 2.7 mg/kg in the following non detection samples: IP01 5-7FT and IP01 15-17FT.

Phenanthrene was detected in IP01 5-7FT at 1.1 mg/kg, IP02 0-2FT at 0.33 mg/kg, IP03 0-2FT at 0.068 mg/kg, IP04 0-2FT at 0.62 mg/kg, IP04 5-7FT at 0.038 mg/kg and IP04 15-17FT at 0.079 mg/kg. Phenanthrene does not have a RSL industrial soil value.

Pyrene was detected in IP02 0-2FT at 0.5 mg/kg, IP02 5-7FT at 0.23 mg/kg, IP03 0-2FT at 0.093 mg/kg, IP04 0-2FT at 0.41 mg/kg, IP04 5-7FT at 0.043 mg/kg and IP04 15-17FT at 0.095 mg/kg, which are below the RSL industrial soil value of 17000 mg/kg).

Soil sample analytical results for BNAs at the Iron Phoenix property are presented in Table 12.

No sampling or investigative work was done on this property during the second phase of the ESA.

7.4 PAHS and VOCs in Soil

Wagner Equipment Company Property
During the second phase of the ESA the six samples collected for soil analysis of VOCs were below their respective RSL industrial soil values for VOCs.

Soil Sample analytical results for PAHs and VOCs at the Wagner Equipment property are presented in Table 9.

Cliff Brice Property
During the second phase of the ESA the eight samples collected were below their respective RSL industrial soil values for PAHs and VOCs. Soil samples were only collected at two locations on the Cliff Brice property in order to evaluate soil conditions immediately adjacent to the Speken Metal property to the west.

The following sample detections are for compounds that do not have a RSL industrial soil value for PAHs:

Acenaphthylene was detected in sample WAMW4 4-6 foot at a concentration of 0.017 mg/kg. Acenaphthylene does not have a RSL industrial soil value.

Benzo[g,h,i]perylene was detected in samples WAMW4 4-6 foot and WAMW5 8-10 foot at a concentrations of 0.041 mg/kg and 0.0013 mg/kg, respectively. Benzo[g,h,i]perylene does not have a RSL industrial soil value.

Phenanthrene was detected in sample WAMW4 4-6 foot at a concentration of 0.032 mg/kg. Phenanthrene does not have a RSL industrial soil value.

Soil Sample analytical results for PAHs and VOCs at the Cliff Brice property are presented in Table 9.

Speken Metal Property
During the second phase of the ESA the three samples collected were below their respective RSL industrial soil value for PAHs.

The following sample detections are for compounds that do not have a RSL industrial soil value for PAHs:

Benzo[g,h,i]perylene was detected in samples SPKN3 1-2 foot, SPKN8 1-2 foot and SPKN22 1-2 foot at a concentrations of 0.059 mg/kg, 0.0095 mg/kg and 0.0081 mg/kg, respectively. Benzo[g,h,i]perylene does not have a RSL industrial soil value.

Phenanthrene was detected in samples SPKN3 1-2 foot, SPKN8 1-2 foot and SPKN22 1-2 foot at a concentrations of 0.29 mg/kg, 0.015 mg/kg and 0.085 mg/kg, respectively. Phenanthrene does not have a RSL industrial soil value.

Soil Sample analytical results for PAHs and VOCs at the Speken Metal property are presented in Table 12.

7.5 PCBs in Soil

PCB aroclors 1248, 1254 and 1260 were detected at the **Speken Metal Property** at the following concentrations:

During the first phase of the ESA Aroclor 1260 was detected in three soil samples, ranging in concentrations from 0.022 mg/kg to 0.16 mg/kg, which are below the RSL industrial soil value of 0.74 mg/kg.

Aroclor 1254 was detected in 10 soil samples, ranging in concentrations from 0.024 mg/kg to 3.8 mg/kg. Two samples (SI04-2.0 and SI04-9.0) exceeded the RSL industrial soil value of 0.74 mg/kg.

Aroclor 1248 was detected in two soil samples (SI04-2.0 and SI07-2.0) at concentrations of 0.61 mg/kg and 9.8 mg/kg, respectively. Sample SI04-2.0 exceeded the RSL industrial soil value of 0.74 mg/kg with a concentration of 9.8 mg/kg.

During the Second phase of the ESA aroclor 1260 was detected in one sample at 0.011 mg/kg which is below the RSL industrial soil value of 0.74 mg/kg.

Aroclor 1254 was detected in two soil samples (SPKN3 1-2 and SPKN22 1-2) at 0.037 mg/kg and 0.033 mg/kg, respectively. The concentrations of both samples are below the RSL industrial soil value of 0.74 mg/kg.

Aroclor 1248 was detected in one sample at 0.064 mg/kg which is below the RSL industrial soil value 0.74 mg/kg.

Soil sample analytical results for PCBs at the Speken Metal Property are presented in Table 11.

7.6 Metals in Groundwater

Cliff Brice
During the second phase of the ESA groundwater samples were collected at two locations adjacent to the Speken Metal property and analyzed for metals.

The following groundwater samples contained barium at concentrations below the Colorado Basic Standard for Ground Water value of 2.0 milligrams per liter (mg/L):

WAMW4 at 0.044 mg/L
WAMW5 at 0.047 mg/L

The following groundwater samples contained selenium at concentrations below the Colorado Basic Standard for Ground Water value of 0.05 mg/L:

WAMW4 at 0.002 mg/L
WAMW5 at 0.0024 mg/L

The following groundwater samples contained mercury at concentrations below the Colorado Basic Standard for Ground Water value of 0.002 mg/L:

WAMW4 at 0.000071 mg/L
WAMW5 at 0.000071 mg/L

Groundwater sample analytical results for metals in groundwater at the Cliff Brice property are presented in Table 16.

Speken Metal Property
The following groundwater samples collected during the second phase of the ESA contained barium at concentrations below the Colorado Basic Standard for Ground Water value of 2.0 milligrams per liter (mg/L):

WAMW6 at 0.034 mg/L
WAMW7 at 0.034 mg/L

The following groundwater samples contained cadmium at concentrations below the Colorado Basic Standard for Ground Water value of 0.005 mg/L:

WAMW6 at 0.00014 mg/L

WAMW7 at 0.00018 mg/L

The following groundwater samples contained lead at concentrations below the Colorado Basic Standard for Ground Water value of 0.005 mg/L:

WAMW7 at 0.00036 mg/L

The following groundwater samples contained selenium at concentrations below the Colorado Basic Standard for Ground Water value of 0.05 mg/L:

WAMW6 at 0.0023 mg/L
WAMW7 at 0.00091 mg/L

The following groundwater samples contained mercury at concentrations below the Colorado Basic Standard for Ground Water value of 0.002 mg/L:

WAMW6 at 0.000067 mg/L
WAMW7 at 0.000066 mg/L

Groundwater sample analytical results for metals in groundwater at the Speken Metal property are presented in Table 19.

Iron Phoenix Property

The following groundwater samples collected during the first phase of the ESA contained barium at concentrations below the Colorado Basic Standard for Ground Water value of 2.0 milligrams per liter (mg/L):

IP01 at 0.068 mg/L
IP02 at 0.053 mg/L
IP03 at 0.056 mg/L
IP04 at 0.05 mg/L.

The following groundwater samples contained selenium at concentrations below the Colorado Basic Standard for Ground Water value of 0.05 mg/L:

IP03 at 0.046 mg/L.

The laboratory reporting limit for arsenic in groundwater samples IP-01, IP-02, IP-03 and IP-04 (0.02 mg/l) was greater than the Colorado Basic Standard for Ground Water of 0.01 mg/L.

Groundwater sample analytical results for metals in groundwater at the Iron Phoenix property are presented in Table 20.

No other metals were detected at concentrations exceeding their laboratory reporting limit or Colorado Basic Standard for Ground Water.

Possible contact with groundwater is not expected to cause a human health risk for workers at the site during construction; however, if construction dewatering is necessary during excavation or drilling of caissons and piers, samples of the groundwater at those locations should be analyzed for metals in order to compare concentrations with groundwater discharge permit parameters prior to discharging groundwater to any surface water body or storm sewer.

7.7 BTEX, TPH-DRO and TPH-GRO in Groundwater

Acorn Property

On the Acorn Property, groundwater samples were collected during the first phase of the ESA in A-01 and A-02E (MW-26 from another investigation). BTEX, TPH-DRO and TPH-GRO were not detected at concentrations above their respective method detection limits, Colorado Basic Standards for Ground Water, or OPS RBSLs in groundwater sample A-02E. Sample A-01 had detections in the six parameters analyzed. Benzene was detected at a concentration of 0.014 mg/L, which was the only constituent present at a concentration above its Colorado Basic Standard for Ground Water of 0.005 mg/L. The remaining five parameters were either below their respective Colorado Basic Standard for Ground Water, or Division of OPS RBSL.

Groundwater sample analytical results for BTEX, TPH-DRO, and TPH-GRO at the Acorn Property are presented in Table 18 and on Figure 2.

Cliff Brice Property

During the first phase of the ESA on the Cliff Brice Property, seven groundwater samples were collected and submitted for analysis for BTEX, TPH-DRO and TPH-GRO. TPH-GRO concentrations ranged from below detection limit (0.10 mg/L) to 84 mg/L. TPH-DRO concentrations ranged from below detection limit (0.10 mg/L) to 19 mg/L.

Benzene was detected in five of the seven groundwater samples collected on the Cliff Brice Property (CBP-03, CBP-04, CBP-05, CBP-06 and CBP-07E) at concentrations ranging from 0.018 mg/L to 18 mg/L, which exceed the Colorado Basic Standard for Ground Water at 0.005 mg/L.

Toluene was detected in four of the seven groundwater samples collected on the Cliff Brice Property (CBP-03, CBP-04, CBP-05, and CBP-06) at concentrations ranging from 0.017 mg/L to 15 mg/L. Samples CBP-03 at 15 mg/L and CBP-06 at 1.1 mg/L contained toluene at concentrations above the Colorado Basic Standard for Ground Water at 0.56 mg/L.

Ethyl benzene was detected in six of the seven groundwater samples collected on the Cliff Brice Property. Ethyl benzene concentrations ranged from 0.0045 mg/L to 4.9 mg/L. Sample CBP-03 at 4.9 mg/L was the only sample above the Colorado Basic Standard for Ground Water at 0.7 mg/L.

Total Xylene was detected in six of the seven groundwater samples collected on the Cliff Brice Property. Total Xylene concentrations ranged from 0.016 mg/L to 4.9 mg/L. Samples CBP-03 at 4.9 mg/L and CBP-06 at 3.3 mg/L were the only two samples above the Colorado Basic Standard for Ground Water at 1.4 mg/L.

A detailed summary of the BTEX, TPH-DRO and TPH-GRO concentrations at the Cliff Brice Property is presented in Table 16.

7.8 Base Neutral Acid Extractable Compounds in Groundwater

During the first phase of the ESA no BNA Extractable Compounds were detected at concentrations exceeding their respective laboratory method detection limit at the Iron Phoenix Property. The following BNA laboratory method detection limits exceeded their respective Colorado Basic Standard for Ground Water:

> 2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrotoluene, 2,4,6-Trichlorophenol, 3,3-Dichlorobenzidine, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-chloroisopropyl) ether, Chrysene, Dibenzo(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamide, N-Nitrosodiphenylamine, and Pentachlorophenol.

A detailed summary of the BNA detection limits and Colorado Basic Standard for Ground Water for the Iron Phoenix Property is presented in Table 19.

7.9 PAHs and VOCs in Groundwater

Wagner Rental Equipment Property

The three samples collected for analysis of VOCs resulted in no detections, with the exception of acetone and methyl tert-butyl ether. The three concentrations of acetone were between 0.0038 mg/L and 0.0059 mg/L, below the Colorado Basic Standard for Ground Water of 6,300 mg/L. Methyl tert-butyl ether does not have a Colorado Basic Standard for Ground Water Standard, but yielded the following laboratory detections:

> WAMW1 at 0.00025 mg/L

Groundwater sample analytical results for PAHs and VOCs at the Wagner Rental Equipment are presented in Table 15.

Cliff Brice Property

During the second phase of the ESA six groundwater samples were collected for analysis of PAHs and VOCs. The following samples contained compounds above their respective Colorado Basic Standard for Ground Water Standards:

> WAMW4 - Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Chrysene

The following PAH compounds do not have a Colorado Basic Standard for Ground Water Standard, but yielded laboratory detections:

1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, benzo[g,h,i]perylene, Phenanthrene and Pyrene

The three samples collected for analysis of VOCs resulted in none detected concentrations, with the exception of acetone. The three concentrations of acetone were below the Colorado Basic Standard for Ground Water Standard of 6,300 mg/L.

Groundwater sample analytical results for PAHs and VOCs at the Cliff Brice are presented in Table 16.

Speken Metal Property
During the second phase of the ESA two ground water samples were collected for analysis of VOCs. Both samples that were collected resulted in no detections with the exception of acetone which was detected at a concentration of 0.0067 mg/L in sample WAMW6, below the Colorado Basic Standard for Ground Water Standard of 6,300 mg/L.

Groundwater sample analytical results for PAHs and VOCs at the Speken Metal Property are presented in Table 18.

7.10 PCBs in Groundwater

Speken Metal Property
During the second phase of the ESA two groundwater samples were collected for analysis of PCBs at the Speken Metal Property. Neither sample contained PCBs at detectable concentrations.

Groundwater sample analytical results for PAHs and VOCs at the Speken Metal property are presented in Table 18.

8 CONCLUSIONS AND RECOMMENDATIONS

This Phase II Environmental Site Assessment (ESA) of the Ilex Bridge Reconstruction Project was conducted for Colorado Department of Transportation (CDOT) Region 2 in Pueblo, Colorado. The following parcels to be acquired by CDOT will be used for reconstruction of the Ilex Bridge on Interstate 25 (I-25).

- Wagner Equipment, Inc. – 214 Ilex Street, Pueblo, Colorado
- Cliff Brice Stations, Inc. – 300 Moffat Street, Pueblo, Colorado
- Acorn Petroleum – 400 South Santa Fe Avenue, Pueblo, Colorado
- Speken Metal – 310 South Santa Fe Avenue, Pueblo, Colorado
- Iron Phoenix – No Address
- Rock Wool Industries – No Address
- West Hill – No Address

This Phase II ESA was conducted by Walsh Environmental Scientists and Engineers, LLC (Walsh) as a subconsultant to Jacobs Engineering Group under Jacobs Contract Number: 11 HA6 31672 OLA 321000274. This ESA was conducted during two separate phases; the first investigative phase (conducted in November, 2012) was to evaluate the presence and type of possible soil and/or groundwater contamination at each parcel, and the second investigative phase (conducted in March, 2013) was performed to further delineate the extent of the soil and/or groundwater contamination recognized in the first phase of sampling.

This Phase II ESA satisfies the Site Characterization requirements of the Colorado Department of Public Health and Environment (CDPHE) Voluntary Clean-up Program Application Guidance Document and Checklist, Appendix C.

First Phase

The first phase of the ESA focused on collecting soil and groundwater samples for laboratory analysis to evaluate possible soil and/or groundwater contamination from current and historic activities that could impact reconstruction activities on the Ilex Bridge Reconstruction Project and to provide a basis for future management of contaminants on the properties. This phase of the assessment was intended to be a screen for targeted contaminants and was not intended to be a comprehensive assessment for all contaminants on the properties.

The first phase of the ESA was conducted in accordance with the Sampling and Analysis Plan, Ilex Bridge Reconstruction Project, Pueblo, Colorado (Walsh 2012). Surface and/or subsurface soil samples were collected at 36 locations and groundwater samples were collected at 13 locations.

Second Phase

The second phase of the ESA focused on collection of additional soil and groundwater samples for laboratory analysis to further delineate the extent of contamination that was identified during the first phase of this Phase II ESA and provide additional data for use during the development of the Voluntary Clean-up Plan (VCUP) and Materials Management Plan (MMP).

The second phase of the ESA was conducted in accordance with the Sampling and Analysis Plan and Additional Site Characterization, Ilex Bridge Reconstruction Project, Pueblo, Colorado (Walsh 2013). Subsurface soil samples were collected at 41 locations and groundwater samples were collected at 7 locations.

Sample identities, laboratory analytical data, boring logs and field notes collected during this Phase II ESA are located in Appendices 1-3. From south to north along the project alignment, samples were collected on the Wagner Equipment Company, Acorn Petroleum, Cliff Brice, Speken Metal, Rock Wool and on a property west of I-25 referred to here as West Hill.

Sampling Rationale and Results

The results and conclusions in this Phase II ESA are based on a discrete number of soil and groundwater samples collected from specific locations. No geophysical investigation was conducted at any time, along the corridor during the Phase II ESA, and as a result, no conclusions can be drawn about the possible presence of sub-surface footings, foundations or other structures, other than those that can be concluded from the penetration of sampling equipment at sampled locations.

Sample locations and laboratory analyses were selected based on the proposed locations of structures on the Ilex Bridge Reconstruction Project, laboratory results of samples collected during the first phase of the ESA, input from CDPHE and CDOT and past uses of the different parcels in the project area. Samples collected on parcels with a history of fuel storage and distribution were analyzed for petroleum hydrocarbons and related constituents. Samples collected on parcels with a history of scrap metal collection were analyzed for metals and other constituents that may have been contained in metal equipment.

The following table lists the samples in which laboratory results indicate an exceedance of relevant industrial soil standards and Colorado Basic Standards for Groundwater for the specific compound. Sample results from the first and second phases of the project are included.

Table 2. Exceedances Listed by Property
First Phase of the ESA

Property	Sample ID	Media	Compound	Lab Result	Units	Standard

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Wagner	WR04 0-2	Soil	TPH-DRO	790	mg/kg	500
Acorn	A-01	Groundwater	Benzene	0.014	mg/L	0.005
Cliff Brice	CB01-9.0	Soil	Benzene	2.7	mg/kg	5.4
Cliff Brice	CB01-9.0	Soil	Ethyl benzene	40	mg/kg	27
Cliff Brice	CB01-9.0	Soil	TPH-GRO	2,400	mg/kg	500
Cliff Brice	CB01-9.0	Soil	TPH-DRO	2,900	mg/kg	500
Cliff Brice	CB05-9.0	Soil	Benzene	17	mg/kg	5.4
Cliff Brice	CB05-9.0	Soil	Ethyl benzene	45	mg/kg	27
Cliff Brice	CB05-9.0	Soil	TPH-GRO	2,700	mg/kg	500
Cliff Brice	CB05-9.0	Soil	TPH-DRO	2,700	mg/kg	500
Cliff Brice	CB07-9.0	Soil	TPH-GRO	3,900	mg/kg	500
Cliff Brice	CB07-9.0	Soil	TPH-DRO	3,900	mg/kg	500
Cliff Brice	CBP-03	Groundwater	Benzene	18	mg/L	0.005
Cliff Brice	CBP-03	Groundwater	Touluene	15	mg/L	1
Cliff Brice	CBP-03	Groundwater	Ethylbenzene	0.99	mg/L	0.7
Cliff Brice	CBP-04	Groundwater	Benzene	0.52	mg/L	0.005
Cliff Brice	CBP-05	Groundwater	Benzene	0.018	mg/L	0.005
Cliff Brice	CBP-06	Groundwater	Benzene	0.24	mg/L	0.005
Cliff Brice	CBP-06	Groundwater	Toluene	1.1	mg/L	0.56
Cliff Brice	CBP-06	Groundwater	Total Xylene	3.3	mg/L	1.4
Cliff Brice	CBP-07E	Groundwater	Benzene	0.11	mg/L	0.005
Speken Metal	**	Soil	Arsenic	2.2-110	mg/kg	1.6
Speken Metal	SI02-7.0	Soil	Lead	990	mg/kg	800
Speken Metal	SI03-2.0	Soil	Lead	1600	mg/kg	800
Speken Metal	SI04-2.0	Soil	Lead	5500	mg/kg	800
Speken Metal	SI04-9.0	Soil	Lead	1800	mg/kg	800
Speken Metal	SI07-7.0	Soil	Lead	1500	mg/kg	800
Speken Metal	SI08-2.0	Soil	Lead	3400	mg/kg	800
Speken Metal	SI09-2.0	Soil	Lead	2500	mg/kg	800
Speken Metal	SI04-2.0	Soil	PCBs	9.8	mg/kg	0.74
Speken Metal	SI04-2.0	Soil	PCBs	3.8	mg/kg	0.74
Speken Metal	SI04-9.0	Soil	PCBs	3.6	mg/kg	0.74
Iron Phoenix	**	Soil	Arsenic	1.5-140	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Iron Phoenix	IP02 0-2	Soil	Benzo(a)pyrene	0.47	mg/kg	0.21
Rock Wool	**	Soil	Arsenic	4.0-63	mg/kg	1.6
Rock Wool	RW03-2	Soil	Lead	1400	mg/kg	800
Rock Wool	RW03-9	Soil	Lead	2000	mg/kg	800

**Arsenic metals occur throughout the property in excess of the EPA RSL for industrial soils of 1.6 mg/kg

Second Phase of the ESA

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	WAMW4 4-6	Soil	Arsenic	6.2	mg/kg	1.6
Cliff Brice	WAMW4 8-10	Soil	Arsenic	1.8	mg/kg	1.6
Cliff Brice	WAMW5 4-6	Soil	Arsenic	3.9	mg/kg	1.6
Cliff Brice	WAMW5 8-10	Soil	Arsenic	2.4	mg/kg	1.6
Cliff Brice	WAMW4	Groundwater	benzo[a]anthracene	5.1	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[a]pyrene	6.2	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[b]fluoranthene	8	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Chrysene	5.5	ng/kg	4.8
Speken Metal	**	Soil	Arsenic	0.63-53.0	mg/kg	1.6
Speken Metal	SPKN10 1-2	Soil	Lead	1200	mg/kg	800
Speken Metal	SPKN11 1-2	Soil	Lead	2500	mg/kg	800
Speken Metal	SPKN18 1-2	Soil	Lead	910	mg/kg	800
Speken Metal	SPKN19 1-2	Soil	Lead	1600	mg/kg	800
Speken Metal	SPKN25 1-2	Soil	Lead	890	mg/kg	800
Speken Metal	SPKN26 1-2	Soil	Lead	1700	mg/kg	800
Speken Metal	SPKN26 7-8	Soil	Lead	8200	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead	6000	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead (TCLP)	130	mg/L	5
Speken Metal	SPKN28 1-2	Soil	Lead	27000	mg/kg	800
Speken Metal	SPKN28 1-2	Soil	Lead (TCLP)	54	mg/L	5
Rock Wool	**	Soil	Arsenic	6.0 - 40	mg/kg	1.6
Rock Wool	RW05 4-5	Soil	Lead	1700	mg/kg	800
Rock Wool	RW05 9-10	Soil	Lead	2400	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
West Hill	**	Soil	Arsenic	5.7-14	mg/kg	1.6

**Arsenic metals occur throughout the property in excess of the EPA RSL for industrial soils of 1.6 mg/kg

Contaminants of Concern in Soil

Wagner Property: One soil sample collected during the first phase of the ESA contained Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) at a concentration exceeding the 500 mg/kg Risk-Based Screening Level (RBSL) set by the Colorado Department of Labor and Employment Division of Oil and Public Safety (OPS), with a concentration of 790 mg/kg in sample WR-04-02.

Acorn Property: Soil samples collected during the first phase of the ESA contained TPH-DRO, TPH-GRO and BTEX in concentrations below their respective OPS RBSL and USEPA RSL values.

Cliff Brice Property: During the first phase of the ESA benzene, Toluene, Ethyl benzene and Total Xylenes (BTEX) were detected in soil at concentrations exceeding their respective United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL) Industrial Soil values in borings CB01, CB05 and CB07. TPH-GRO and TPH-DRO were detected in in borings CB01, CB05 and CB07 at concentrations exceeding the 500 mg/kg RBSL.

Soil samples collected during the second phase of the ESA contained arsenic in concentrations ranging from 1.8 mg/kg to 6.2 mg/kg, exceeding the RSL industrial soil (1.6 mg/kg) values in the four samples collected at WAMW4 and WAMW5.

Speken Metal Property: Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 2.2 mg/kg to 110 mg/kg in the surface and subsurface samples, exceeding the RSL industrial soil value of 1.6 mg/kg in 29 of the 32 samples submitted for laboratory analysis. Five samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the first phase of the ESA contained lead in seven samples exceeding the RSL industrial soil value of 800 mg/kg. Three samples also contained PCBs at concentrations exceeding the RSL industrial soil value of 0.74 mg/kg.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 0.63 mg/kg to 53.0 mg/kg exceeding the RSL industrial soil value of 1.6 mg/kg in 43 of the 45 samples. Furthermore, three samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

During the second phase of the ESA lead was detected in soil at a concentration of 1200 mg/kg in sample SPKN10 1-2 feet, at 2500 mg/kg in sample SPKN11 1-2 feet, at 910 mg/kg in sample SPKN18 1-2 feet, at 1600 mg/kg in sample SPKN19 1-2 feet, at 890 mg/kg in sample SPKN25 1-2 feet, at 1700 mg/kg in sample SPKN26 1-2 feet, at 8200 mg/kg in sample SPKN26 7-8 feet, at 6000 mg/kg in sample SPKN27 1-2 feet, and 27000 mg/kg in sample SPKN28 1-2 feet, which are greater than the RSL industrial soil value of 800mg/kg.

For waste disposal purposes, Toxic Leaching Characterization Procedure (TCLP) analysis was performed on the Speken Metal property samples that exceeded a lead concentration of 100 mg/kg. Two samples contained TCLP lead at concentrations exceeding 5 mg/L; samples SPKN27 1-2 feet at 130 mg/L and SPKN28 1-2 feet at 54 mg/L.

Iron Phoenix Property: Soil samples collected during the first phase of the ESA contained BNA Extractable compounds detected in numerous soil samples at concentrations exceeding their respective RSL industrial soil values; these are further discussed in detail in Section 7.3.

Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 1.5 mg/kg to 140 mg/kg exceeding the RSL Industrial Soil value of 1.6 mg/kg in 10 of the 16 samples. Furthermore, five samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

No additional investigative work was done on the Iron Phoenix property during the second phase of the ESA.

Rockwool: Soil samples collected during the first phase of the ESA contained arsenic at concentrations ranging from 4.0 mg/Kg to 63 mg/Kg exceeding the RSL Industrial Soil value of 1.6mg/kg in the six samples. Furthermore, two samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the first phase of the ESA contained lead at concentrations ranging from 51 mg/kg to 2000 mg/kg. Two of the six samples contained lead at concentrations greater than the 800 mg/kg RSL industrial soil value.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 6 mg/kg to 40 mg/kg exceeding the RSL Industrial Soil value of 1.6 mg/kg in the four samples. Furthermore, one sample contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Soil samples collected during the second phase of the ESA contained lead at concentrations ranging from 59 mg/kg to 2400 mg/kg in the four samples, exceeding the RSL industrial soil value of 800 mg/kg in two of the four samples.

West Hill: No investigative work was done on the West Hill property during the first phase of the ESA.

Soil samples collected during the second phase of the ESA contained arsenic at concentrations ranging from 5.7 mg/kg to 14 mg/kg exceeding the RSL industrial soil value of 1.6 mg/kg in the five samples. However, none of the samples contained arsenic at concentrations greater than the CDPHE VCUP high background concentration of 25 mg/kg.

Contaminants of Concern in Groundwater

Wagner Equipment Rental Property: Groundwater samples collected during the second phase of the ESA contained VOCs at concentrations below their respective Colorado Basic Standard for Groundwater values.

Acorn Property: Groundwater samples collected during the first phase of the ESA contained benzene at concentrations exceeded the Colorado Basic Standard for Ground Water (0.005 milligrams/liter (mg/L) in one of the two samples collected.

No additional investigative work was done on the Acorn property during the second phase of the ESA.

Cliff Brice Property: During the first phase of the ESA benzene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.005 mg/L in five of the seven samples collected. Toluene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.56 mg/L in two of the seven samples collected. Ethyl benzene concentrations exceeded the Colorado Basic Standard for Ground Water of 0.70 mg/L in one of the seven samples collected. Total Xylene concentrations exceeded the Colorado Basic Standard for Ground Water of 1.40 mg/L in one of the seven samples collected at the Cliff Brice Property.

Groundwater samples collected during the second phase of the ESA contained benzo[a]anthracene at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L in sample WAMW4. Benzo[a]pyrene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 to 2,000 ng/L in sample WAMW4. Benzo[b]fluoranthene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L in sample WAMW4. Chrysene detected at concentrations exceeding the Colorado Basic Standard for Ground Water of 4.8 ng/L.

Speken Metal Property: Groundwater samples collected during the second phase of the ESA contained dissolved metals, VOCs, and PCBs at concentrations below their respective Colorado Basic Standard for Groundwater values.

Iron Phoenix Property: During the first phase of the ESA no Base Neutral Acid (BNA) Extractable Compounds were detected in groundwater at concentrations exceeding their respective laboratory method detection limit at the four monitoring wells installed at the Iron Phoenix Property. However, the laboratory method detection limits exceeded their respective Colorado Basic Standards for Ground Water for the following constituents:

> 2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrotoluene, 2,4,6-Trichlorophenol, 3,3-Dichlorobenzidine, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-chloroisopropyl) ether, Chrysene, Dibenzo(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamide, N-Nitrosodiphenylamine, and Pentachlorophenol.

No additional investigative work was done at the Iron Phoenix property during the second phase of the ESA.

No groundwater is expected to be consumed at the site and detected concentrations are not considered a worker hazard under current worker protection regulations. If higher concentrations are discovered during future work activities, worker protection procedures may be required. Any construction dewatering discharge of groundwater to surface water including storm drains will require a Colorado Wastewater Discharge Permit from the Water Quality Control Division. Discharge water will require sampling and monitoring and water quality will need to meet permit conditions.

Recommendations

Preparation of a Materials Management Plan is recommended to manage soil and groundwater during construction. The Materials Management Plan is also a required element of the Voluntary Cleanup Program application.

Further characterization of the Cliff Brice and Acorn properties is currently being conducted by the CDOT Property Management group. CDOT's consultant will seek closure of those sites through the Colorado Department of Labor and Employment, Division of Oil and Public Safety (OPS).

Walsh will prepare a VCUP Application and Materials Management Plan (MMP) for submittal to CDPHE for the properties included in the Ilex Bridge Reconstruction Project. The MMP is intended to limit exposure to impacted materials during construction activities and to prevent potentially impacted materials generated during construction from affecting human health and the environment.

9 REFERENCES

American Society of Testing and Materials (ASTM) Value E1527-05. 2005. *Value Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*

CDOT. 2011. *Draft Environmental Impact Statement and Section 4(f) Evaluation for I-25 Improvements Through Pueblo.* November 2011.

_____. 2012. *Right Of Way Plans Of Proposed Federal Aid Project No. IM 1251-334, Highway No. I-25.* Last Modified 05-30-2012.

CDPHE. 2009. *Colorado Basic Standards for Ground Water, Regulation No. 41, 5 CCR, 1002-41, Amended October 13, 2009, Effective November 30, 2009.*

CH2MHILL. 2004. *Hazardous Materials Technical Memorandum, New Pueblo Freeway.* November 2004

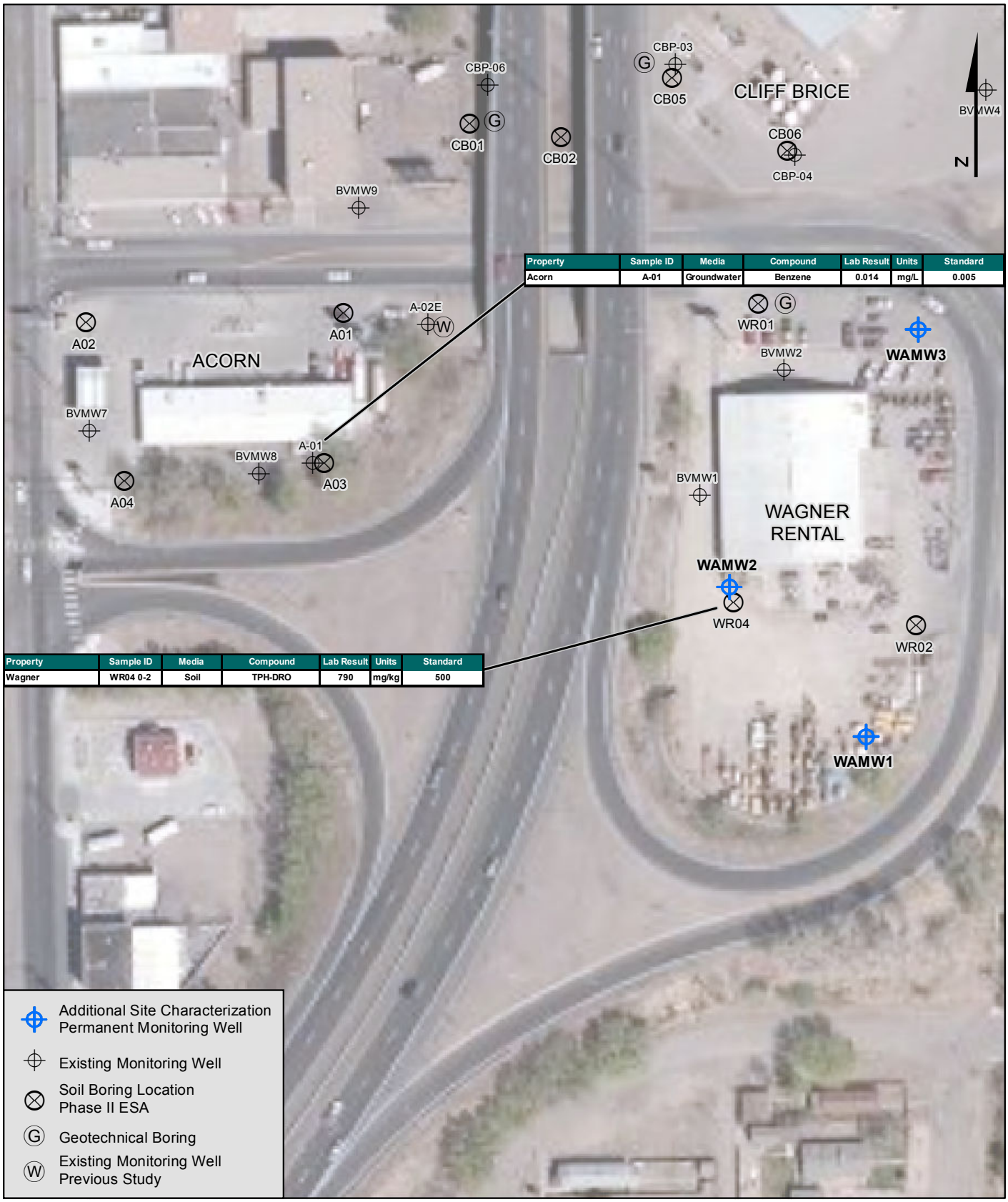
Pinyon. 2011. *Phase I Environmental Site Assessment, Ilex Bridge Replacement.* July 15, 2011

Walsh. July, 2012. *Sampling and Analysis Plan: CDOT Ilex Bridge Reconstruction Project, Pueblo, Colorado.*

_____. July, 2012. *Investigation Status Summary: CDOT Ilex Bridge Reconstruction Project, Pueblo Colorado.*

Figures

Figure 2. Soil Boring Locations and Groundwater Monitoring Well Locations with Exceedances – Wagner Rental and Acorn Properties



Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Acorn	A-01	Groundwater	Benzene	0.014	mg/L	0.005

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Wagner	WR04 0-2	Soil	TPH-DRO	790	mg/kg	500

NAD 1983 StatePlane Colorado South FIPS 0503 Feet

Figure 2
Wagner Rental, Acorn Soil Boring and Monitoring Well Locations
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May, 2013

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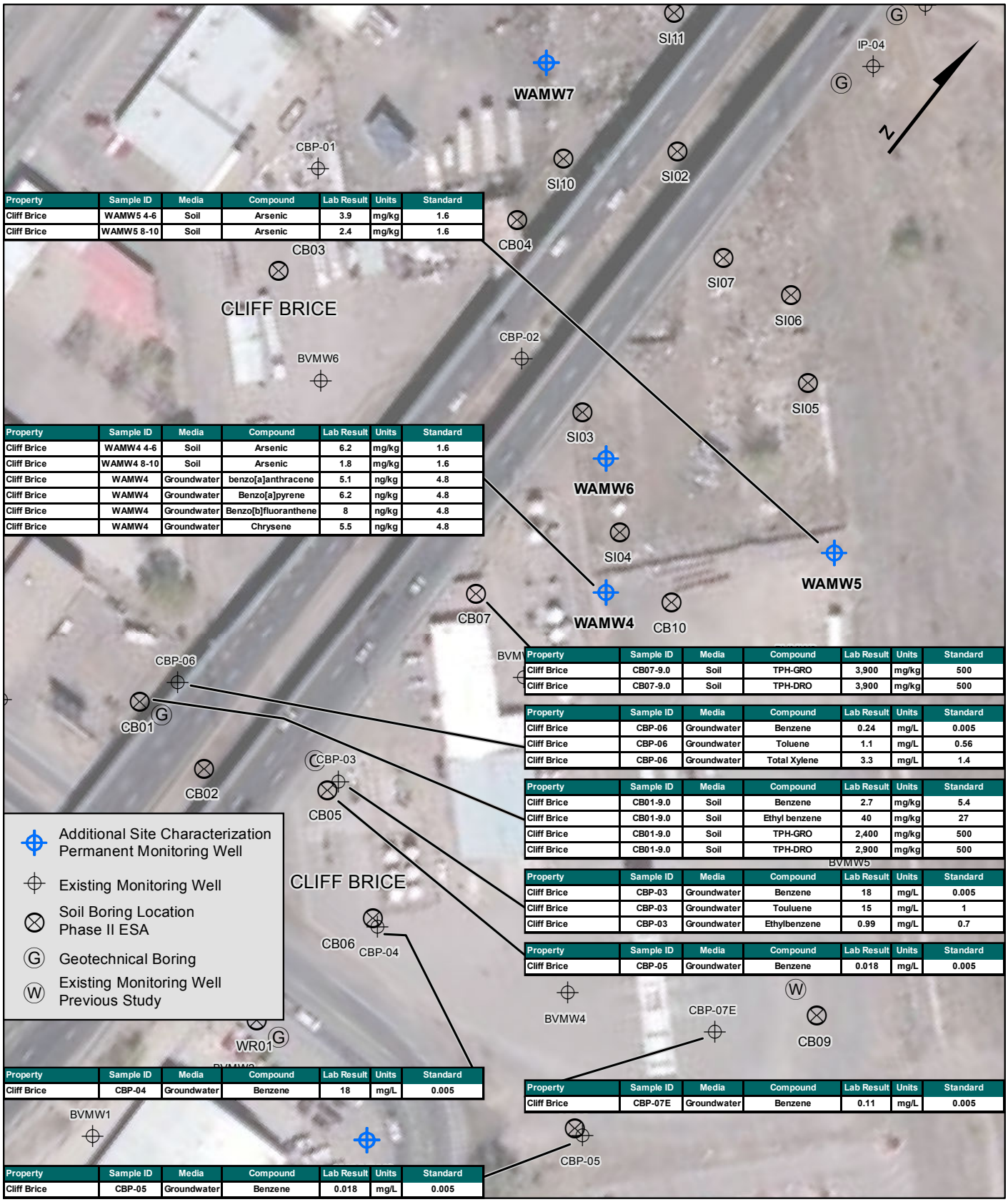
Figure 3. Soil Boring Locations and Groundwater Monitoring Well Locations with Exceedances – Cliff Brice Property



Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	WAMW5 4-6	Soil	Arsenic	3.9	mg/kg	1.6
Cliff Brice	WAMW5 8-10	Soil	Arsenic	2.4	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	WAMW4 4-6	Soil	Arsenic	6.2	mg/kg	1.6
Cliff Brice	WAMW4 8-10	Soil	Arsenic	1.8	mg/kg	1.6
Cliff Brice	WAMW4	Groundwater	benzo[a]anthracene	5.1	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[a]pyrene	6.2	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Benzo[b]fluoranthene	8	ng/kg	4.8
Cliff Brice	WAMW4	Groundwater	Chrysene	5.5	ng/kg	4.8

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CB07-9.0	Soil	TPH-GRO	3,900	mg/kg	500
Cliff Brice	CB07-9.0	Soil	TPH-DRO	3,900	mg/kg	500

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-06	Groundwater	Benzene	0.24	mg/L	0.005
Cliff Brice	CBP-06	Groundwater	Toluene	1.1	mg/L	0.56
Cliff Brice	CBP-06	Groundwater	Total Xylene	3.3	mg/L	1.4

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CB01-9.0	Soil	Benzene	2.7	mg/kg	5.4
Cliff Brice	CB01-9.0	Soil	Ethyl benzene	40	mg/kg	27
Cliff Brice	CB01-9.0	Soil	TPH-GRO	2,400	mg/kg	500
Cliff Brice	CB01-9.0	Soil	TPH-DRO	2,900	mg/kg	500

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-03	Groundwater	Benzene	18	mg/L	0.005
Cliff Brice	CBP-03	Groundwater	Touluene	15	mg/L	1
Cliff Brice	CBP-03	Groundwater	Ethylbenzene	0.99	mg/L	0.7

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-05	Groundwater	Benzene	0.018	mg/L	0.005

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-04	Groundwater	Benzene	18	mg/L	0.005

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-05	Groundwater	Benzene	0.018	mg/L	0.005

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Cliff Brice	CBP-07E	Groundwater	Benzene	0.11	mg/L	0.005

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Figure 3
Cliff Brice Soil and Groundwater Exceedances
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WA-001925-0001-10TTO
May, 2013

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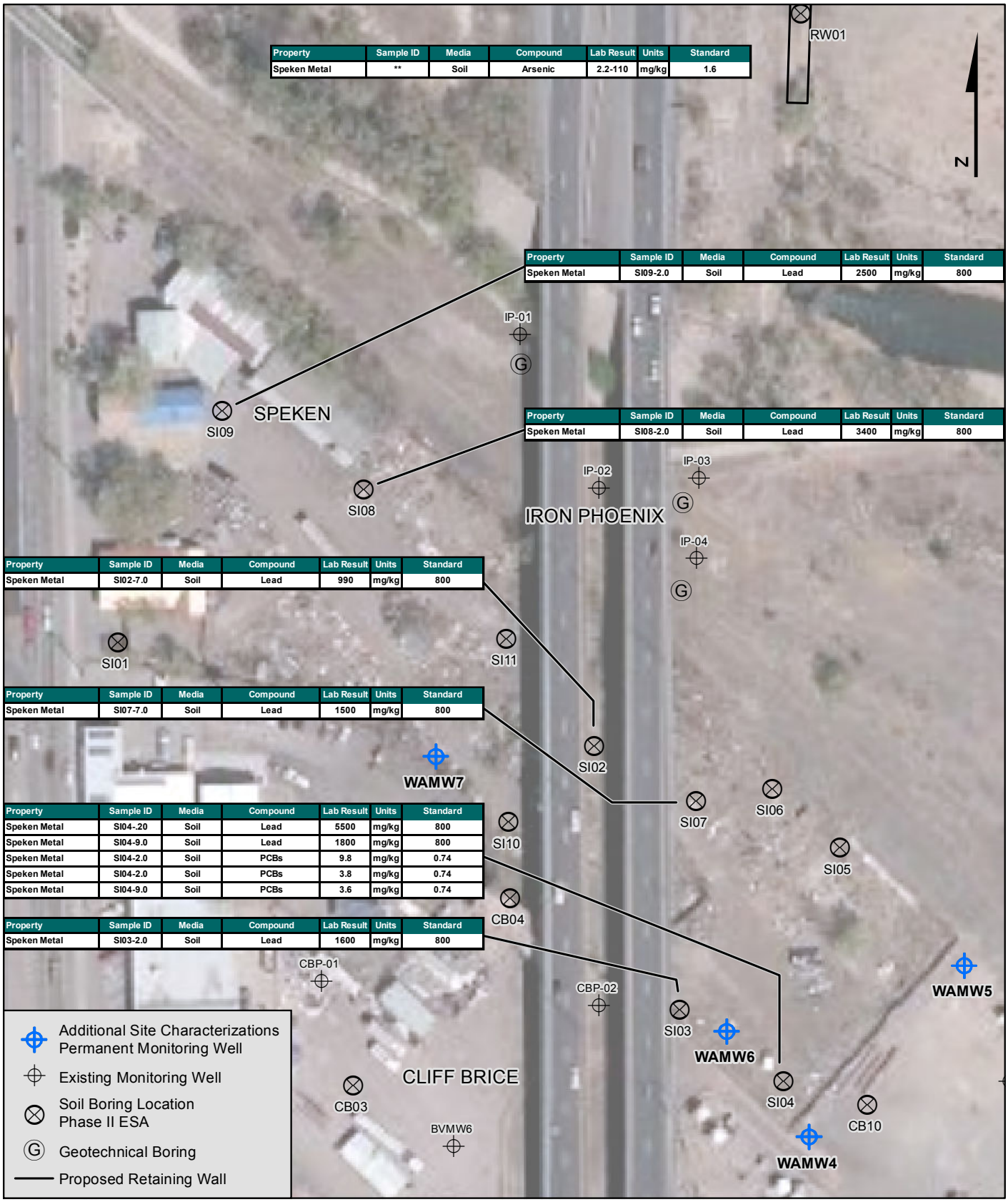
Figure 4. Soil Boring Locations, Groundwater Monitoring Well Locations with Exceedances – Speken Metal Property – First Phase



Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	**	Soil	Arsenic	2.2-110	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI09-2.0	Soil	Lead	2500	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI08-2.0	Soil	Lead	3400	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI02-7.0	Soil	Lead	990	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI07-7.0	Soil	Lead	1500	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI04-.20	Soil	Lead	5500	mg/kg	800
Speken Metal	SI04-9.0	Soil	Lead	1800	mg/kg	800
Speken Metal	SI04-2.0	Soil	PCBs	9.8	mg/kg	0.74
Speken Metal	SI04-2.0	Soil	PCBs	3.8	mg/kg	0.74
Speken Metal	SI04-9.0	Soil	PCBs	3.6	mg/kg	0.74

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	SI03-2.0	Soil	Lead	1600	mg/kg	800

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Figure 4
Speken Metal
First Phase Soil Exceedances
CDOT Ilex Bridge Project, Phase II ESA
Pueblo County, Colorado
WA-001925-0001-10TTO
May, 2013

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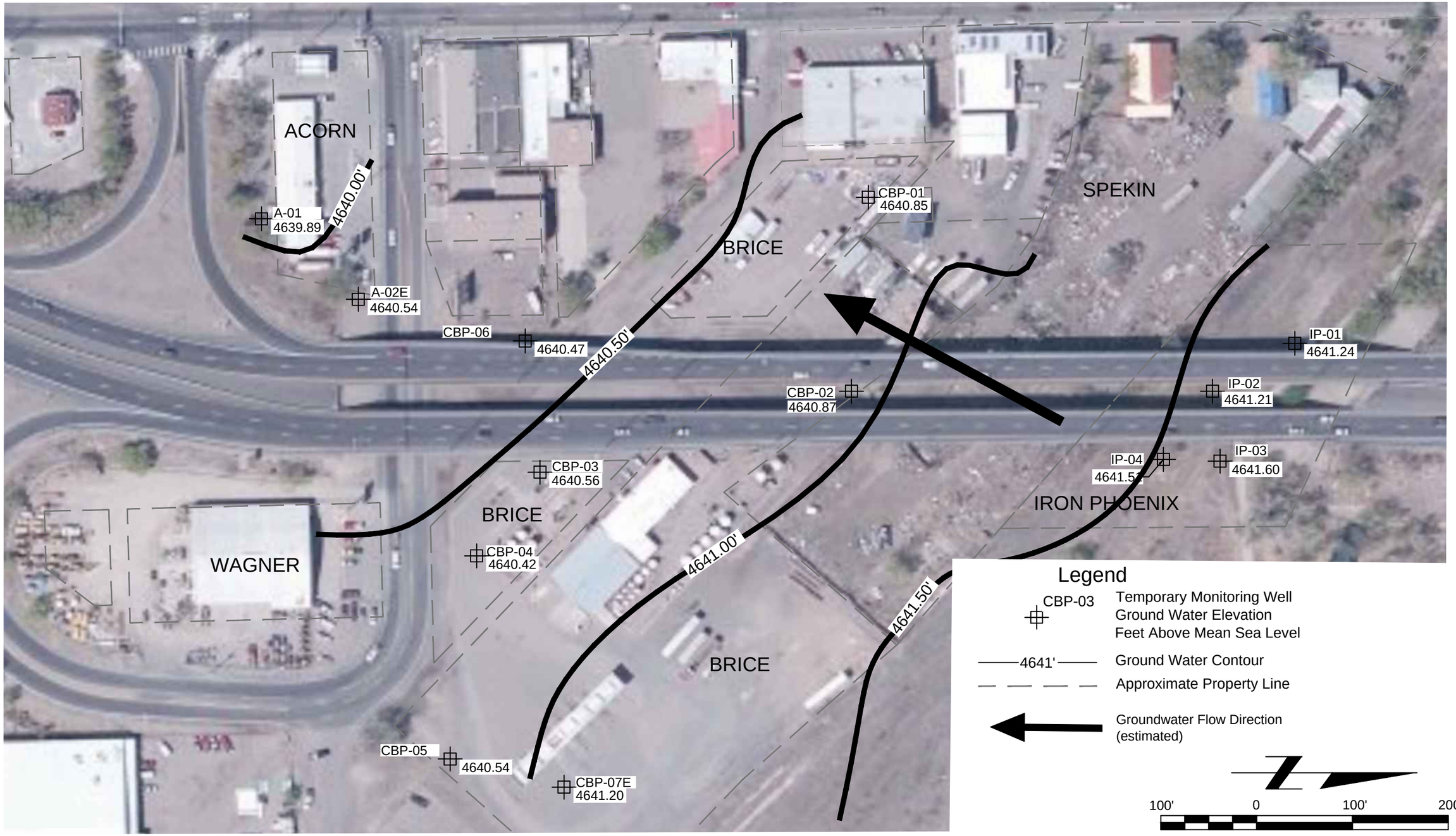
Figure 5. Groundwater Elevation and Contour Map



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Project Number:
WA-001740-0001-40TTO

Date:
October, 2012

CDOT Ilex Bridge Project
Phase II ESA
City of Pueblo, Pueblo County, Colorado

Figure 5

Ground Water Elevation and Contour Map

Figure 6. Soil Boring Locations, Groundwater Monitoring Well Locations and Composite Sample Grid with Exceedances – Speken Metal Property – Second Phase

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Speken Metal	**	Soil	Arsenic	0.63-53.0	mg/kg	1.6
Speken Metal	SPKN10 1-2	Soil	Lead	1200	mg/kg	800
Speken Metal	SPKN11 1-2	Soil	Lead	2500	mg/kg	800
Speken Metal	SPKN18 1-2	Soil	Lead	910	mg/kg	800
Speken Metal	SPKN19 1-2	Soil	Lead	1600	mg/kg	800
Speken Metal	SPKN25 1-2	Soil	Lead	890	mg/kg	800
Speken Metal	SPKN26 1-2	Soil	Lead	1700	mg/kg	800
Speken Metal	SPKN26 7-8	Soil	Lead	8200	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead	6000	mg/kg	800
Speken Metal	SPKN27 1-2	Soil	Lead (TCLP)	130	mg/L	5
Speken Metal	SPKN28 1-2	Soil	Lead	27000	mg/kg	800
Speken Metal	SPKN28 1-2	Soil	Lead (TCLP)	54	mg/L	5

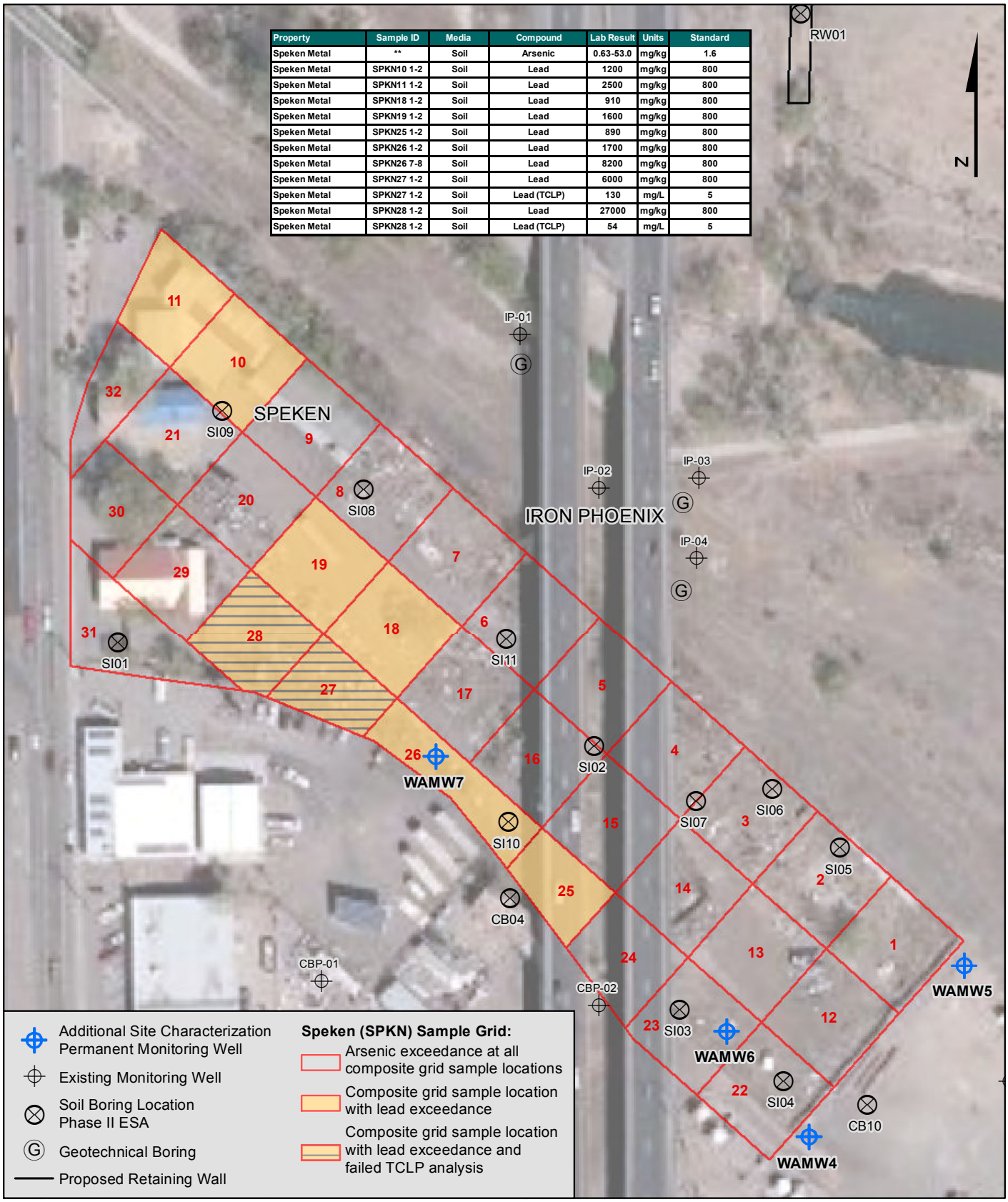

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Figure 6
Speken Metal Composite Sample Grid
Soil Exceedances
CDOT Ilex Bridge Project, Phase II ESA
Pueblo County, Colorado
WA-001925-0001-10TTO
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Figure 7. Soil Boring Locations and Groundwater Monitoring Well Locations with Exceedances – Iron Phoenix Property

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Iron Phoenix	**	Soil	Arsenic	1.5-140	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Iron Phoenix	IP02 0-2	Soil	Benzo(a)pyrene	0.47	mg/kg	0.21

NAD 1983 StatePlane Colorado South FIPS 0503 Feet

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Feet

Figure 7
Iron Phoenix
Soil Exceedances
CDOT Ilex Bridge Project, Phase II ESA
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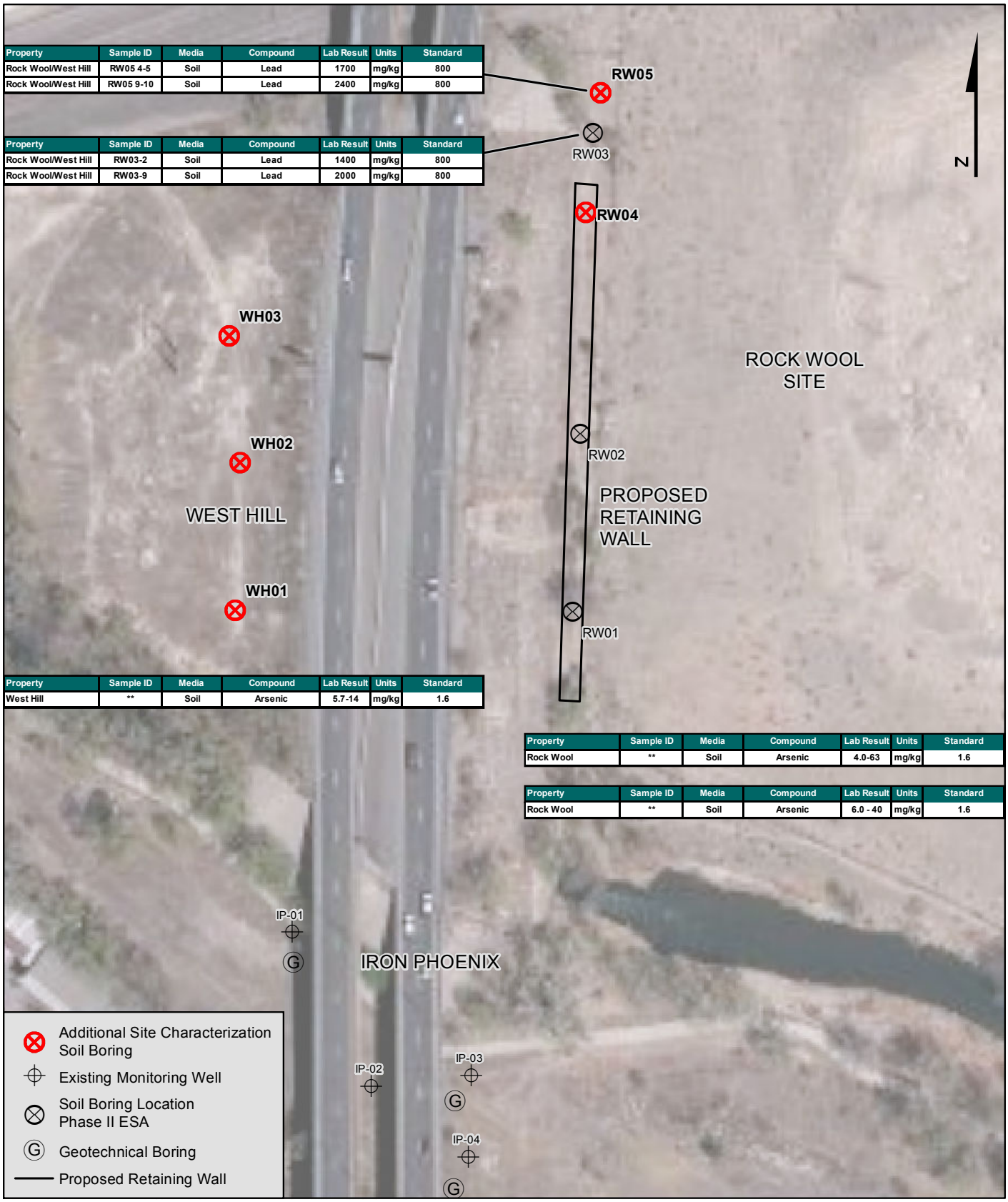
Figure 8. Soil Boring Locations and Groundwater Monitoring Well Locations with Exceedances – Rock Wool and West Hill Properties



Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Rock Wool/West Hill	RW05 4-5	Soil	Lead	1700	mg/kg	800
Rock Wool/West Hill	RW05 9-10	Soil	Lead	2400	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Rock Wool/West Hill	RW03-2	Soil	Lead	1400	mg/kg	800
Rock Wool/West Hill	RW03-9	Soil	Lead	2000	mg/kg	800

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
West Hill	**	Soil	Arsenic	5.7-14	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Rock Wool	**	Soil	Arsenic	4.0-63	mg/kg	1.6

Property	Sample ID	Media	Compound	Lab Result	Units	Standard
Rock Wool	**	Soil	Arsenic	6.0 - 40	mg/kg	1.6

NAD 1983 StatePlane Colorado South FIPS 0503 Feet

Figure 8
Rock Wool, West Hill
Soil Boring Locations and Exceedances
CDOT Ilex Bridge Project, Phase II ESA
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WA-001925-0001-10TTO
May, 2013

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Tables

Table 3. Soil Sample Identifications and List of Laboratory Analyses Performed During the First Phase of the ESA

Sample ID	BTEX_DRO/GRO	METALS	BNA Extractable	PCBs
CB01-1.0	X			
CB01-9.0	X			
CB02-2.0	X			
CB02-7.0	X			
CB02-9.0	X			
CB03-2.0	X			
CB03-7.0	X			
CB03-9.0	X			
CB04-2.0	X			
CB04-7.0	X			
CB04-9.0	X			
CB05-2.0	X			
CB05-7.0	X			
CB05-9.0	X			
CB06-2.0	X			
CB06-7.0	X			
CB07-2.0	X			
CB07-7.0	X			
CB07-9.0	X			
CB08-2.0	X			
CB08-7.0	X			
CB08-9.0	X			
CB09-2.0	X			
CB09-7.0	X			
CB09-9.0	X			
CB010-2.0	X			
CB010-7.0	X			
CB010-9.0	X			
IP01 0-2FT		X	X	
IP01 5-7FT		X	X	
IP01 10-12FT		X	X	
IP01 15-17FT		X	X	
IP02 0-2FT		X	X	
IP02 5-7FT		X	X	
IP02 10-12FT		X	X	
IP02 15-17FT		X	X	
IP03 0-2FT		X	X	
IP03 5-7FT		X	X	
IP03 10-12FT		X	X	
IP03 15-17FT		X	X	
IP04 0-2FT		X	X	
IP04 5-7FT		X	X	
IP04 10-12FT		X	X	

Sample ID	BTEX_DRO/GRO	METALS	BNA Extractable	PCBs
IP04 15-17FT		X	X	
A01-2 FT	X			
A01-7 FT	X			
A01-9 FT	X			
A02-2 FT	X			
A02-7 FT	X			
A02-11 FT	X			
A03-2 FT	X			
A03-7 FT	X			
A03-9 FT	X			
A04-2 FT	X			
A04-7 FT	X			
A04-9 FT	X			
RW-01-2.0 FT		X	X	
RW-01-7.0 FT		X	X	
RW-02-2.0 FT		X	X	
RW-02-9.0 FT		X	X	
RW-03-2.0 FT		X	X	
RW-03-9.0 FT		X	X	
SI01-2.0 0-2 FT		X		X
SI01-7.0 5-7 FT		X		X
SI01-9.0 7-9 FT		X		X
SI02-2.0 0-2 FT		X		X
SI02-7.0 5-7 FT		X		X
SI02-9.0 7-9 FT		X		X
SI03-2.0 0-2 FT		X		X
SI03-7.0 5-7 FT		X		X
SI03-9.0 7-9 FT		X		X
SI04-2.0 0-2 FT		X		X
SI04-7.0 5-7 FT		X		X
SI04-9.0 7-9 FT		X		X
SI05-2.0 0-2 FT		X		X
SI05-7.0 5-7 FT		X		X
SI05-9.0 7-9 FT		X		X
SI06-2.0 0-2 FT		X		X
SI06-7.0 5-7 FT		X		X
SI06-9.0 7-9 FT		X		X
SI07-2.0 0-2 FT		X		X
SI07-7.0 5-7 FT		X		X
SI07-9.0 7-9 FT		X		X
SI08-2.0 0-2 FT		X		X
SI08-7.0 5-7 FT		X		
SI09-2.0 0-2 FT		X		X
SI09-7.0 5-7 FT		X		X
SI010-2.0 0-2 FT		X		X
SI010-7.0 5-7 FT		X		X
SI010-9.0 7-9 FT		X		X

Sample ID	BTEX_DRO/GRO	METALS	BNA Extractable	PCBs
SI011-2.0 0-2 FT		X		X
SI011-7.0 5-7 FT		X		X
SI011-9.0 7-9 FT		X		X
WR01-2 FT	X			
WR01-7 FT	X			
WR01-9 FT	X			
WR02-2 FT	X			
WR02-7 FT	X			
WR02-9 FT	X			
WR03-2 FT	X			
WR03-7 FT	X			
WR03-9 FT	X			
WR-04-0-2	X			

Table 4. Soil Sample Identifications and List of Laboratory Analyses Performed During the Second Phase of the ESA

Boring ID	DRO/ GRO + MTBE	VOC	RCRA Metals	TCLP Lead	PCB	PAH	Property
WAMW1		1X					Wagner Rental
WAMW1		1X					Wagner Rental
WAMW2		1X					Wagner Rental
WAMW2		1X					Wagner Rental
WAMW3		1X					Wagner Rental
WAMW3		1X					Wagner Rental
WAMW4	1X	1X	1X			1X	Cliff Brice
WAMW4	1X	1X	1X			1X	Cliff Brice
WAMW5	1X	1X	1X			1X	Cliff Brice
WAMW5	1X	1X	1X			1X	Cliff Brice
SPKN1(1-2) ©			1X				Speken Metal
SPKN2(1-2) ©			1X				Speken Metal
SPKN3(1-2) ©			1X		1X	1X	Speken Metal
SPKN4(1-2) ©			1X				Speken Metal
SPKN4(1-2)D ©			1X				Speken Metal
SPKN4(4-6)			1X		1X		Speken Metal
SPKN4(8-10)			1X		1X		Speken Metal
SPKN5(1-2) ©			1X				Speken Metal
SPKN5(4-6)			1X		1X		Speken Metal
SPKN5(8-10)			1X		1X		Speken Metal
SPKN6(1-2) ©			1X	1X			Speken Metal
SPKN7(1-2) ©			1X	1X			Speken Metal
SPKN8(1-2) ©			1X	1X	1X	1X	Speken Metal
SPKN8(1-2)D ©			1X	1X	1X	1X	Speken Metal
SPKN9(1-2) ©			1X				Speken Metal
SPKN10(1-2) ©			1X	1X			Speken Metal
SPKN10(1-2)D ©			1X				Speken Metal
SPKN11(1-2)			1X				Speken Metal

Boring ID	DRO/ GRO + MTBE	VOC	RCRA Metals	TCLP Lead	PCB	PAH	Property
SPKN12(1-2) ©			1X				Speken Metal
SPKN13(1-2) ©			1X	1X			Speken Metal
SPKN14(1-2) ©			1X				Speken Metal
SPKN14(1-2)D ©			1X				Speken Metal
SPKN15(1-2) ©			1X				Speken Metal
SPKN15(4-6)			1X	1X	1X		Speken Metal
SPKN15(8-10)			1X		1X		Speken Metal
SPKN16(1-2) ©			1X	1X			Speken Metal
SPKN16(4-6)			1X		1X		Speken Metal
SPKN16(8-10)			1X		1X		Speken Metal
SPKN17(1-2) ©			1X				Speken Metal
SPKN18(1-2) ©			1X				Speken Metal
SPKN19(1-2) ©			1X				Speken Metal
SPKN20(1-2) ©			1X	1X			Speken Metal
SPKN21(1-2) ©			1X				Speken Metal
SPKN22(1-2) ©			1X	1X	1X	1X	Speken Metal
SPKN23(1-2) ©			1X				Speken Metal
SPKN23(8-9)			1X				Speken Metal
SPKN24(1-2) ©			1X				Speken Metal
SPKN24(4-6)			1X		1X		Speken Metal
SPKN24(8-10)			1X		1X		Speken Metal
SPKN25(1-2) ©			1X				Speken Metal
SPKN25(4-6)			1X		1X		Speken Metal
SPKN25(8-10)			1X		1X		Speken Metal
SPKN26(1-2) ©			1X				Speken Metal
SPKN26(7-8)			1X				Speken Metal
SPKN27(1-2) ©			1X				Speken Metal
SPKN28(1-2) ©			1X				Speken Metal
SPKN29(1-2) ©			1X	1X			Speken Metal
SPKN30(1-2)			1X				Speken

Boring ID	DRO/ GRO + MTBE	VOC	RCRA Metals	TCLP Lead	PCB	PAH	Property
							Metal
SPKN31(1-2)			**1X**				**Speken Metal**
WH01(5-6)			**1X**				**West Hill**
WH01(9-10)			**1X**				**West Hill**
WH02(5-6)			**1X**				**West Hill**
WH03(5-6)			**1X**				**West Hill**
WH03(9-10)			**1X**				**West Hill**
RW04(5-6)			**1X**				**Rock Wool**
RW04(9-10)			**1X**				**Rock Wool**
RW05(4-5)			**1X**				**Rock Wool**
RW05(9-10)			**1X**				**Rock Wool**

Sample ID:
WR – Wagner Rental
SI – Speken Metals
A – Acorn
IP – Iron Phoenix
CB – Cliff Brice
RW – Rock Wool
WH – West Hill
SPKN – Speken Metals
WAMW – Walsh Monitoring Well
© = composite sample

Table 5. Groundwater Sample Identifications and List of Laboratory Analyses Performed During the First Phase of the ESA

Sample ID	BTEX_DRO/GRO	METALS	BNA Extractable
A-01	X		
A-02E	X		
CBP-01	X		
CBP-02	X		
CBP-03	X		
CBP-04	X		
CBP-05	X		
CBP-06	X		
CBP-07E	X		
IP01		X	X
IP02		X	X
IP03		X	X
IP04		X	X

Table 6. Groundwater Sample Identifications and List of Laboratory Analyses Performed During the Second Phase of the ESA

Well ID	VOCs	VOCs + MTBE	RCRA Metals (dissolved)	PCBs	PAHs	Property
WAMW1	**1X**					**Wagner Rental**
WAMW2	**1X**					**Wagner Rental**
WAMW3	**1X**					**Wagner Rental**
WAMW4		**1X**	**1X**		**1X**	**Cliff Brice**
WAMW5		**1X**	**1X**		**1X**	**Cliff Brice**
WAMW6	**1X**		**1X**	**1X**		**Speken Metal**
WAMW7	**1X**		**1X**	**1X**		**Speken Metal**
BVMW2	**1X**		**1X**			**Wagner Rental**
BVMW5		**1X**	**1X**			**Cliff Brice**

Sample ID:
A – Acorn
CBP – Cliff Brice Property
IP – Iron Phoenix
WAMW – Walsh Monitoring Well
BVMW – Bureau of Veritas Monitoring Well

Table 7. Groundwater Elevations Measured During the First Phase of the ESA

Monitoring Well Identification	Date	Surveyed Elevation	Depth to Water	Groundwater Elevation
		(ft)	(ft)	(ft)
A-01	08/08/2012	4650.079	10.19	4639.89
A-02E (MW-26)	08/08/2012	4647.646	7.11	4640.54
CBP-01	08/07/2012	4648.549	7.70	4640.85
CBP-02	08/07/2012	4648.488	7.62	4640.87
CBP-03	08/07/2012	4646.969	6.41	4640.56
CBP-04	08/07/2012	4648.120	7.70	4640.42
CBP-05	08/07/2012	4647.344	6.80	4640.54
CBP-06	08/07/2012	4648.697	8.23	4640.47
CBP-07E	08/07/2012	4649.935	8.74	4641.20
IP01	08/07/2012	4659.166	17.93	4641.24
IP02	08/07/2012	4658.641	17.43	4641.21
IP03	08/07/2012	4658.945	17.35	4641.60
IP04	08/07/2012	4658.729	17.22	4641.51

Table 8. Groundwater Elevations Measured During the Second Phase of the ESA

Monitoring Well Identification	Date	Surveyed Elevation	Depth to Water	Groundwater Elevation
		(ft)	(ft)	(ft)
WAMW1	03/18/2013	unk	5.41	unk
WAMW2	03/18/2013	unk	6.77	unk
WAMW3	03/18/2013	unk	7.42	unk
WAMW4	03/18/2013	unk	8.96	unk
WAMW5	03/18/2013	unk	9.41	unk
WAMW6	03/18/2013	unk	8.42	unk
WAMW7	03/18/2013	unk	8.88	unk
BVMW2	03/18/2013	unk	8.02	unk
BVMW5	03/18/2013	unk	8.43	unk

Table 9. Results of Laboratory Analysis of Soil Samples Collected at Wagner Rental Property

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WR01-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR01-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR01-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR01-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR01-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR01-2 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR01-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR01-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR01-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR01-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR01-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR01-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR01-9 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR01-9 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR01-9 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR01-9 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR01-9 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR01-9 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR02-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR02-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR02-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR02-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR02-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR02-2 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR02-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR02-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR02-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR02-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR02-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR02-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR02-9 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR02-9 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR02-9 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR02-9 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR02-9 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR02-9 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR03-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR03-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR03-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WR03-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR03-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR03-2 FT		TPH DRO (high fraction)	9	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR03-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR03-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR03-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR03-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR03-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR03-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR03-9 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR03-9 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR03-9 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR03-9 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR03-9 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR03-9 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
WR-04-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
WR-04-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
WR-04-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
WR-04-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WR-04-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
WR-04-2 FT		TPH DRO (high fraction)	790	mg/Kg		4	500	**Y**
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW1(10-12)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.4	38,000,000	
WAMW1(10-12)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.4	2,800	
WAMW1(10-12)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.4	5,300	
WAMW1(10-12)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		18	180,000,000	
WAMW1(10-12)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.4	17,000	
WAMW1(10-12)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.4	1,100,000	
WAMW1(10-12)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.4	490,000	
WAMW1(10-12)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.4	99,000	
WAMW1(10-12)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		8.8	69	
WAMW1(10-12)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.4	170	
WAMW1(10-12)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.4	9,800,000	
WAMW1(10-12)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.4	2,200	
WAMW1(10-12)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.4	4,700	
WAMW1(10-12)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.4	no value	
WAMW1(10-12)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.4	12,000	
WAMW1(10-12)	123-91-1	1,4-Dioxane	ND	ug/Kg		440	17,000	
WAMW1(10-12)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		18	200,000,000	
WAMW1(10-12)	591-78-6	2-Hexanone	ND	ug/Kg		18	1,400,000	
WAMW1(10-12)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		18	53,000,000	
WAMW1(10-12)	67-64-1	Acetone	6.2	ug/Kg	J B	18	630,000,000	
WAMW1(10-12)	71-43-2	Benzene	ND	ug/Kg		4.4	5,400	
WAMW1(10-12)	75-25-2	Bromoform	0.29	ug/Kg	J B	4.4	220,000	
WAMW1(10-12)	74-83-9	Bromomethane	ND	ug/Kg		8.8	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW1(10-12)	75-15-0	Carbon disulfide	ND	ug/Kg		4.4	3,700,000	
WAMW1(10-12)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.4	3,000	
WAMW1(10-12)	108-90-7	Chlorobenzene	ND	ug/Kg		4.4	1,400,000	
WAMW1(10-12)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.4	680,000	
WAMW1(10-12)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.4	3,300	
WAMW1(10-12)	75-00-3	Chloroethane	ND	ug/Kg		8.8	3,400	
WAMW1(10-12)	67-66-3	Chloroform	ND	ug/Kg		8.8	1,500	
WAMW1(10-12)	74-87-3	Chloromethane	ND	ug/Kg		8.8	500,000	
WAMW1(10-12)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.2	2,000,000	
WAMW1(10-12)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.4	8,300	
WAMW1(10-12)	110-82-7	Cyclohexane	ND	ug/Kg		4.4	2,900,000	
WAMW1(10-12)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.4	1,400	
WAMW1(10-12)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		8.8	400,000	
WAMW1(10-12)	100-41-4	Ethylbenzene	ND	ug/Kg		4.4	7,800	
WAMW1(10-12)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.4	27,000	
WAMW1(10-12)	79-20-9	Methyl acetate	ND	ug/Kg		8.8	1,000,000,000,000	
WAMW1(10-12)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		18	220,000	
WAMW1(10-12)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.4	no value	
WAMW1(10-12)	75-09-2	Methylene Chloride	1.9	ug/Kg	J B	4.4	no value	
WAMW1(10-12)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.2	2,500,000	
WAMW1(10-12)	95-47-6	o-Xylene	ND	ug/Kg		2.2	3,000,000	
WAMW1(10-12)	100-42-5	Styrene	ND	ug/Kg		4.4	3,600,000	
WAMW1(10-12)	127-18-4	Tetrachloroethene	ND	ug/Kg		4.4	110,000	
WAMW1(10-12)	108-88-3	Toluene	ND	ug/Kg		4.4	45,000,000	
WAMW1(10-12)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.2	690,000	
WAMW1(10-12)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.4	8,300	
WAMW1(10-12)	79-01-6	Trichloroethene	ND	ug/Kg		4.4	6,400	
WAMW1(10-12)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		8.8	3,400,000	
WAMW1(10-12)	75-01-4	Vinyl chloride	ND	ug/Kg		4.4	1,700	
WAMW1(10-12)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.2	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW1(5-6)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.3	38,000,000	
WAMW1(5-6)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.3	2,800	
WAMW1(5-6)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.3	5,300	
WAMW1(5-6)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		17	180,000,000	
WAMW1(5-6)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.3	17,000	
WAMW1(5-6)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.3	1,100,000	
WAMW1(5-6)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.3	490,000	
WAMW1(5-6)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.3	99,000	
WAMW1(5-6)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		8.7	69	
WAMW1(5-6)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.3	170	
WAMW1(5-6)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.3	9,800,000	
WAMW1(5-6)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.3	2,200	
WAMW1(5-6)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.3	4,700	
WAMW1(5-6)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.3	no value	
WAMW1(5-6)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.3	12,000	
WAMW1(5-6)	123-91-1	1,4-Dioxane	ND	ug/Kg		430	17,000	
WAMW1(5-6)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		17	200,000,000	
WAMW1(5-6)	591-78-6	2-Hexanone	ND	ug/Kg		17	1,400,000	
WAMW1(5-6)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		17	53,000,000	
WAMW1(5-6)	67-64-1	Acetone	ND	ug/Kg		17	630,000,000	
WAMW1(5-6)	71-43-2	Benzene	ND	ug/Kg		4.3	5,400	
WAMW1(5-6)	75-25-2	Bromoform	0.29	ug/Kg	J B	4.3	220,000	
WAMW1(5-6)	74-83-9	Bromomethane	ND	ug/Kg		8.7	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW1(5-6)	75-15-0	Carbon disulfide	ND	ug/Kg		4.3	3,700,000	
WAMW1(5-6)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.3	3,000	
WAMW1(5-6)	108-90-7	Chlorobenzene	ND	ug/Kg		4.3	1,400,000	
WAMW1(5-6)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.3	680,000	
WAMW1(5-6)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.3	3,300	
WAMW1(5-6)	75-00-3	Chloroethane	ND	ug/Kg		8.7	3,400	
WAMW1(5-6)	67-66-3	Chloroform	ND	ug/Kg		8.7	1,500	
WAMW1(5-6)	74-87-3	Chloromethane	ND	ug/Kg		8.7	500,000	
WAMW1(5-6)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.2	2,000,000	
WAMW1(5-6)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.3	8,300	
WAMW1(5-6)	110-82-7	Cyclohexane	ND	ug/Kg		4.3	2,900,000	
WAMW1(5-6)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.3	1,400	
WAMW1(5-6)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		8.7	400,000	
WAMW1(5-6)	100-41-4	Ethylbenzene	ND	ug/Kg		4.3	7,800	
WAMW1(5-6)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.3	27,000	
WAMW1(5-6)	79-20-9	Methyl acetate	ND	ug/Kg		8.7	1,000,000,000,000	
WAMW1(5-6)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		17	220,000	
WAMW1(5-6)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.3	no value	
WAMW1(5-6)	75-09-2	Methylene Chloride	1.6	ug/Kg	J B	4.3	no value	
WAMW1(5-6)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.2	2,500,000	
WAMW1(5-6)	95-47-6	o-Xylene	ND	ug/Kg		2.2	3,000,000	
WAMW1(5-6)	100-42-5	Styrene	ND	ug/Kg		4.3	3,600,000	
WAMW1(5-6)	127-18-4	Tetrachloroethene	ND	ug/Kg		4.3	110,000	
WAMW1(5-6)	108-88-3	Toluene	ND	ug/Kg		4.3	45,000,000	
WAMW1(5-6)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.2	690,000	
WAMW1(5-6)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.3	8,300	
WAMW1(5-6)	79-01-6	Trichloroethene	ND	ug/Kg		4.3	6,400	
WAMW1(5-6)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		8.7	3,400,000	
WAMW1(5-6)	75-01-4	Vinyl chloride	ND	ug/Kg		4.3	1,700	
WAMW1(5-6)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.2	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW2(0.5-10)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		5.2	38,000,000	
WAMW2(0.5-10)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		5.2	2,800	
WAMW2(0.5-10)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		5.2	5,300	
WAMW2(0.5-10)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		21	180,000,000	
WAMW2(0.5-10)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		5.2	17,000	
WAMW2(0.5-10)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		5.2	1,100,000	
WAMW2(0.5-10)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		5.2	490,000	
WAMW2(0.5-10)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		5.2	99,000	
WAMW2(0.5-10)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		10	69	
WAMW2(0.5-10)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		5.2	170	
WAMW2(0.5-10)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		5.2	9,800,000	
WAMW2(0.5-10)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		5.2	2,200	
WAMW2(0.5-10)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		5.2	4,700	
WAMW2(0.5-10)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		5.2	no value	
WAMW2(0.5-10)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		5.2	12,000	
WAMW2(0.5-10)	123-91-1	1,4-Dioxane	ND	ug/Kg		520	17,000	
WAMW2(0.5-10)	78-93-3	2-Butanone (MEK)	3.3	ug/Kg	J B	21	200,000,000	
WAMW2(0.5-10)	591-78-6	2-Hexanone	ND	ug/Kg		21	1,400,000	
WAMW2(0.5-10)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		21	53,000,000	
WAMW2(0.5-10)	67-64-1	Acetone	24	ug/Kg	B	21	630,000,000	
WAMW2(0.5-10)	71-43-2	Benzene	ND	ug/Kg		5.2	5,400	
WAMW2(0.5-10)	75-25-2	Bromoform	0.3	ug/Kg	J B	5.2	220,000	
WAMW2(0.5-10)	74-83-9	Bromomethane	ND	ug/Kg		10	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW2(0.5-10)	75-15-0	Carbon disulfide	ND	ug/Kg		5.2	3,700,000	
WAMW2(0.5-10)	56-23-5	Carbon tetrachloride	ND	ug/Kg		5.2	3,000	
WAMW2(0.5-10)	108-90-7	Chlorobenzene	ND	ug/Kg		5.2	1,400,000	
WAMW2(0.5-10)	74-97-5	Chlorobromomethane	ND	ug/Kg		5.2	680,000	
WAMW2(0.5-10)	124-48-1	Chlorodibromomethane	ND	ug/Kg		5.2	3,300	
WAMW2(0.5-10)	75-00-3	Chloroethane	ND	ug/Kg		10	3,400	
WAMW2(0.5-10)	67-66-3	Chloroform	ND	ug/Kg		10	1,500	
WAMW2(0.5-10)	74-87-3	Chloromethane	ND	ug/Kg		10	500,000	
WAMW2(0.5-10)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.6	2,000,000	
WAMW2(0.5-10)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		5.2	8,300	
WAMW2(0.5-10)	110-82-7	Cyclohexane	ND	ug/Kg		5.2	2,900,000	
WAMW2(0.5-10)	75-27-4	Dichlorobromomethane	ND	ug/Kg		5.2	1,400	
WAMW2(0.5-10)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		10	400,000	
WAMW2(0.5-10)	100-41-4	Ethylbenzene	ND	ug/Kg		5.2	7,800	
WAMW2(0.5-10)	98-82-8	Isopropylbenzene	ND	ug/Kg		5.2	27,000	
WAMW2(0.5-10)	79-20-9	Methyl acetate	ND	ug/Kg		10	1,000,000,000,000	
WAMW2(0.5-10)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		21	220,000	
WAMW2(0.5-10)	108-87-2	Methylcyclohexane	ND	ug/Kg		5.2	no value	
WAMW2(0.5-10)	75-09-2	Methylene Chloride	2.2	ug/Kg	J B	5.2	no value	
WAMW2(0.5-10)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.6	2,500,000	
WAMW2(0.5-10)	95-47-6	o-Xylene	ND	ug/Kg		2.6	3,000,000	
WAMW2(0.5-10)	100-42-5	Styrene	ND	ug/Kg		5.2	3,600,000	
WAMW2(0.5-10)	127-18-4	Tetrachloroethene	1.2	ug/Kg	J	5.2	110,000	
WAMW2(0.5-10)	108-88-3	Toluene	ND	ug/Kg		5.2	45,000,000	
WAMW2(0.5-10)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.6	690,000	
WAMW2(0.5-10)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		5.2	8,300	
WAMW2(0.5-10)	79-01-6	Trichloroethene	ND	ug/Kg		5.2	6,400	
WAMW2(0.5-10)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		10	3,400,000	
WAMW2(0.5-10)	75-01-4	Vinyl chloride	ND	ug/Kg		5.2	1,700	
WAMW2(0.5-10)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.6	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW2(5-6)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.9	38,000,000	
WAMW2(5-6)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.9	2,800	
WAMW2(5-6)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.9	5,300	
WAMW2(5-6)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		20	180,000,000	
WAMW2(5-6)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.9	17,000	
WAMW2(5-6)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.9	1,100,000	
WAMW2(5-6)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.9	490,000	
WAMW2(5-6)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.9	99,000	
WAMW2(5-6)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		9.8	69	
WAMW2(5-6)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.9	170	
WAMW2(5-6)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.9	9,800,000	
WAMW2(5-6)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.9	2,200	
WAMW2(5-6)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.9	4,700	
WAMW2(5-6)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.9	no value	
WAMW2(5-6)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.9	12,000	
WAMW2(5-6)	123-91-1	1,4-Dioxane	ND	ug/Kg		490	17,000	
WAMW2(5-6)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		20	200,000,000	
WAMW2(5-6)	591-78-6	2-Hexanone	ND	ug/Kg		20	1,400,000	
WAMW2(5-6)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		20	53,000,000	
WAMW2(5-6)	67-64-1	Acetone	13	ug/Kg	J B	20	630,000,000	
WAMW2(5-6)	71-43-2	Benzene	ND	ug/Kg		4.9	5,400	
WAMW2(5-6)	75-25-2	Bromoform	0.23	ug/Kg	J B	4.9	220,000	
WAMW2(5-6)	74-83-9	Bromomethane	ND	ug/Kg		9.8	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW2(5-6)	75-15-0	Carbon disulfide	ND	ug/Kg		4.9	3,700,000	
WAMW2(5-6)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.9	3,000	
WAMW2(5-6)	108-90-7	Chlorobenzene	ND	ug/Kg		4.9	1,400,000	
WAMW2(5-6)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.9	680,000	
WAMW2(5-6)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.9	3,300	
WAMW2(5-6)	75-00-3	Chloroethane	ND	ug/Kg		9.8	3,400	
WAMW2(5-6)	67-66-3	Chloroform	ND	ug/Kg		9.8	1,500	
WAMW2(5-6)	74-87-3	Chloromethane	ND	ug/Kg		9.8	500,000	
WAMW2(5-6)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.4	2,000,000	
WAMW2(5-6)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW2(5-6)	110-82-7	Cyclohexane	ND	ug/Kg		4.9	2,900,000	
WAMW2(5-6)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.9	1,400	
WAMW2(5-6)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		9.8	400,000	
WAMW2(5-6)	100-41-4	Ethylbenzene	ND	ug/Kg		4.9	7,800	
WAMW2(5-6)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.9	27,000	
WAMW2(5-6)	79-20-9	Methyl acetate	ND	ug/Kg		9.8	1,000,000,000,000	
WAMW2(5-6)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		20	220,000	
WAMW2(5-6)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.9	no value	
WAMW2(5-6)	75-09-2	Methylene Chloride	1.6	ug/Kg	J B	4.9	no value	
WAMW2(5-6)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.4	2,500,000	
WAMW2(5-6)	95-47-6	o-Xylene	ND	ug/Kg		2.4	3,000,000	
WAMW2(5-6)	100-42-5	Styrene	ND	ug/Kg		4.9	3,600,000	
WAMW2(5-6)	127-18-4	Tetrachloroethene	ND	ug/Kg		4.9	110,000	
WAMW2(5-6)	108-88-3	Toluene	ND	ug/Kg		4.9	45,000,000	
WAMW2(5-6)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.4	690,000	
WAMW2(5-6)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW2(5-6)	79-01-6	Trichloroethene	ND	ug/Kg		4.9	6,400	
WAMW2(5-6)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		9.8	3,400,000	
WAMW2(5-6)	75-01-4	Vinyl chloride	ND	ug/Kg		4.9	1,700	
WAMW2(5-6)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.4	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(4-6)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.3	38,000,000	
WAMW3(4-6)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.3	2,800	
WAMW3(4-6)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.3	5,300	
WAMW3(4-6)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		17	180,000,000	
WAMW3(4-6)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.3	17,000	
WAMW3(4-6)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.3	1,100,000	
WAMW3(4-6)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.3	490,000	
WAMW3(4-6)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.3	99,000	
WAMW3(4-6)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		8.5	69	
WAMW3(4-6)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.3	170	
WAMW3(4-6)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.3	9,800,000	
WAMW3(4-6)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.3	2,200	
WAMW3(4-6)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.3	4,700	
WAMW3(4-6)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.3	no value	
WAMW3(4-6)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.3	12,000	
WAMW3(4-6)	123-91-1	1,4-Dioxane	ND	ug/Kg		430	17,000	
WAMW3(4-6)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		17	200,000,000	
WAMW3(4-6)	591-78-6	2-Hexanone	ND	ug/Kg		17	1,400,000	
WAMW3(4-6)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		17	53,000,000	
WAMW3(4-6)	67-64-1	Acetone	ND	ug/Kg		17	630,000,000	
WAMW3(4-6)	71-43-2	Benzene	ND	ug/Kg		4.3	5,400	
WAMW3(4-6)	75-25-2	Bromoform	0.36	ug/Kg	J B	4.3	220,000	
WAMW3(4-6)	74-83-9	Bromomethane	ND	ug/Kg		8.5	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(4-6)	75-15-0	Carbon disulfide	ND	ug/Kg		4.3	3,700,000	
WAMW3(4-6)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.3	3,000	
WAMW3(4-6)	108-90-7	Chlorobenzene	ND	ug/Kg		4.3	1,400,000	
WAMW3(4-6)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.3	680,000	
WAMW3(4-6)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.3	3,300	
WAMW3(4-6)	75-00-3	Chloroethane	ND	ug/Kg		8.5	3,400	
WAMW3(4-6)	67-66-3	Chloroform	ND	ug/Kg		8.5	1,500	
WAMW3(4-6)	74-87-3	Chloromethane	ND	ug/Kg		8.5	500,000	
WAMW3(4-6)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.1	2,000,000	
WAMW3(4-6)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.3	8,300	
WAMW3(4-6)	110-82-7	Cyclohexane	ND	ug/Kg		4.3	2,900,000	
WAMW3(4-6)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.3	1,400	
WAMW3(4-6)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		8.5	400,000	
WAMW3(4-6)	100-41-4	Ethylbenzene	ND	ug/Kg		4.3	7,800	
WAMW3(4-6)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.3	27,000	
WAMW3(4-6)	79-20-9	Methyl acetate	ND	ug/Kg		8.5	1,000,000,000,000	
WAMW3(4-6)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		17	220,000	
WAMW3(4-6)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.3	no value	
WAMW3(4-6)	75-09-2	Methylene Chloride	1.4	ug/Kg	J B	4.3	no value	
WAMW3(4-6)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.1	2,500,000	
WAMW3(4-6)	95-47-6	o-Xylene	ND	ug/Kg		2.1	3,000,000	
WAMW3(4-6)	100-42-5	Styrene	ND	ug/Kg		4.3	3,600,000	
WAMW3(4-6)	127-18-4	Tetrachloroethene	ND	ug/Kg		4.3	110,000	
WAMW3(4-6)	108-88-3	Toluene	ND	ug/Kg		4.3	45,000,000	
WAMW3(4-6)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.1	690,000	
WAMW3(4-6)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.3	8,300	
WAMW3(4-6)	79-01-6	Trichloroethene	ND	ug/Kg		4.3	6,400	
WAMW3(4-6)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		8.5	3,400,000	
WAMW3(4-6)	75-01-4	Vinyl chloride	ND	ug/Kg		4.3	1,700	
WAMW3(4-6)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.1	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(7-8)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.4	38,000,000	
WAMW3(7-8)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.4	2,800	
WAMW3(7-8)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.4	5,300	
WAMW3(7-8)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		18	180,000,000	
WAMW3(7-8)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.4	17,000	
WAMW3(7-8)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.4	1,100,000	
WAMW3(7-8)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.4	490,000	
WAMW3(7-8)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.4	99,000	
WAMW3(7-8)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		8.8	69	
WAMW3(7-8)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.4	170	
WAMW3(7-8)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.4	9,800,000	
WAMW3(7-8)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.4	2,200	
WAMW3(7-8)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.4	4,700	
WAMW3(7-8)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.4	no value	
WAMW3(7-8)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.4	12,000	
WAMW3(7-8)	123-91-1	1,4-Dioxane	ND	ug/Kg		440	17,000	
WAMW3(7-8)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		18	200,000,000	
WAMW3(7-8)	591-78-6	2-Hexanone	ND	ug/Kg		18	1,400,000	
WAMW3(7-8)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		18	53,000,000	
WAMW3(7-8)	67-64-1	Acetone	5	ug/Kg	J B	18	630,000,000	
WAMW3(7-8)	71-43-2	Benzene	ND	ug/Kg		4.4	5,400	
WAMW3(7-8)	75-25-2	Bromoform	0.32	ug/Kg	J B	4.4	220,000	
WAMW3(7-8)	74-83-9	Bromomethane	ND	ug/Kg		8.8	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(7-8)	75-15-0	Carbon disulfide	ND	ug/Kg		4.4	3,700,000	
WAMW3(7-8)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.4	3,000	
WAMW3(7-8)	108-90-7	Chlorobenzene	ND	ug/Kg		4.4	1,400,000	
WAMW3(7-8)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.4	680,000	
WAMW3(7-8)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.4	3,300	
WAMW3(7-8)	75-00-3	Chloroethane	ND	ug/Kg		8.8	3,400	
WAMW3(7-8)	67-66-3	Chloroform	ND	ug/Kg		8.8	1,500	
WAMW3(7-8)	74-87-3	Chloromethane	ND	ug/Kg		8.8	500,000	
WAMW3(7-8)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.2	2,000,000	
WAMW3(7-8)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.4	8,300	
WAMW3(7-8)	110-82-7	Cyclohexane	ND	ug/Kg		4.4	2,900,000	
WAMW3(7-8)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.4	1,400	
WAMW3(7-8)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		8.8	400,000	
WAMW3(7-8)	100-41-4	Ethylbenzene	ND	ug/Kg		4.4	7,800	
WAMW3(7-8)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.4	27,000	
WAMW3(7-8)	79-20-9	Methyl acetate	ND	ug/Kg		8.8	1,000,000,000,000	
WAMW3(7-8)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		18	220,000	
WAMW3(7-8)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.4	no value	
WAMW3(7-8)	75-09-2	Methylene Chloride	1.5	ug/Kg	J B	4.4	no value	
WAMW3(7-8)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.2	2,500,000	
WAMW3(7-8)	95-47-6	o-Xylene	ND	ug/Kg		2.2	3,000,000	
WAMW3(7-8)	100-42-5	Styrene	ND	ug/Kg		4.4	3,600,000	
WAMW3(7-8)	127-18-4	Tetrachloroethene	1	ug/Kg	J	4.4	110,000	
WAMW3(7-8)	108-88-3	Toluene	ND	ug/Kg		4.4	45,000,000	
WAMW3(7-8)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.2	690,000	
WAMW3(7-8)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.4	8,300	
WAMW3(7-8)	79-01-6	Trichloroethene	ND	ug/Kg		4.4	6,400	
WAMW3(7-8)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		8.8	3,400,000	
WAMW3(7-8)	75-01-4	Vinyl chloride	ND	ug/Kg		4.4	1,700	
WAMW3(7-8)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.2	2,700,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(7-8)D	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.9	38,000,000	
WAMW3(7-8)D	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.9	2,800	
WAMW3(7-8)D	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.9	5,300	
WAMW3(7-8)D	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		19	180,000,000	
WAMW3(7-8)D	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.9	17,000	
WAMW3(7-8)D	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.9	1,100,000	
WAMW3(7-8)D	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.9	490,000	
WAMW3(7-8)D	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.9	99,000	
WAMW3(7-8)D	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		9.7	69	
WAMW3(7-8)D	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.9	170	
WAMW3(7-8)D	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.9	9,800,000	
WAMW3(7-8)D	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.9	2,200	
WAMW3(7-8)D	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.9	4,700	
WAMW3(7-8)D	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.9	no value	
WAMW3(7-8)D	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.9	12,000	
WAMW3(7-8)D	123-91-1	1,4-Dioxane	ND	ug/Kg		490	17,000	
WAMW3(7-8)D	78-93-3	2-Butanone (MEK)	ND	ug/Kg		19	200,000,000	
WAMW3(7-8)D	591-78-6	2-Hexanone	ND	ug/Kg		19	1,400,000	
WAMW3(7-8)D	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		19	53,000,000	
WAMW3(7-8)D	67-64-1	Acetone	ND	ug/Kg		19	630,000,000	
WAMW3(7-8)D	71-43-2	Benzene	ND	ug/Kg		4.9	5,400	
WAMW3(7-8)D	75-25-2	Bromoform	0.33	ug/Kg	J B	4.9	220,000	
WAMW3(7-8)D	74-83-9	Bromomethane	ND	ug/Kg		9.7	32,000	

Wagner Rental Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW3(7-8)D	75-15-0	Carbon disulfide	ND	ug/Kg		4.9	3,700,000	
WAMW3(7-8)D	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.9	3,000	
WAMW3(7-8)D	108-90-7	Chlorobenzene	ND	ug/Kg		4.9	1,400,000	
WAMW3(7-8)D	74-97-5	Chlorobromomethane	ND	ug/Kg		4.9	680,000	
WAMW3(7-8)D	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.9	3,300	
WAMW3(7-8)D	75-00-3	Chloroethane	ND	ug/Kg		9.7	3,400	
WAMW3(7-8)D	67-66-3	Chloroform	ND	ug/Kg		9.7	1,500	
WAMW3(7-8)D	74-87-3	Chloromethane	ND	ug/Kg		9.7	500,000	
WAMW3(7-8)D	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.4	2,000,000	
WAMW3(7-8)D	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW3(7-8)D	110-82-7	Cyclohexane	ND	ug/Kg		4.9	2,900,000	
WAMW3(7-8)D	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.9	1,400	
WAMW3(7-8)D	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		9.7	400,000	
WAMW3(7-8)D	100-41-4	Ethylbenzene	ND	ug/Kg		4.9	7,800	
WAMW3(7-8)D	98-82-8	Isopropylbenzene	ND	ug/Kg		4.9	27,000	
WAMW3(7-8)D	79-20-9	Methyl acetate	ND	ug/Kg		9.7	1,000,000,000,000	
WAMW3(7-8)D	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		19	220,000	
WAMW3(7-8)D	108-87-2	Methylcyclohexane	ND	ug/Kg		4.9	no value	
WAMW3(7-8)D	75-09-2	Methylene Chloride	1.7	ug/Kg	J B	4.9	no value	
WAMW3(7-8)D	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.4	2,500,000	
WAMW3(7-8)D	95-47-6	o-Xylene	ND	ug/Kg		2.4	3,000,000	
WAMW3(7-8)D	100-42-5	Styrene	ND	ug/Kg		4.9	3,600,000	
WAMW3(7-8)D	127-18-4	Tetrachloroethene	ND	ug/Kg		4.9	110,000	
WAMW3(7-8)D	108-88-3	Toluene	2	ug/Kg	J	4.9	45,000,000	
WAMW3(7-8)D	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.4	690,000	
WAMW3(7-8)D	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW3(7-8)D	79-01-6	Trichloroethene	ND	ug/Kg		4.9	6,400	
WAMW3(7-8)D	75-69-4	Trichlorofluoromethane	ND	ug/Kg		9.7	3,400,000	
WAMW3(7-8)D	75-01-4	Vinyl chloride	ND	ug/Kg		4.9	1,700	
WAMW3(7-8)D	1330-20-7	Xylenes, Total	ND	ug/Kg		2.4	2,700,000	

ılue (USEPA Region 3) most stringent level used

Table 10. Results of Laboratory Analysis of Soil Samples Collected at Cliff Brice Property

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
CB01-1.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB01-1.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB01-1.0	100-41-4	Ethylbenzene	4.2	ug/Kg		2.5	7,800	
CB01-1.0	1330-20-7	Total Xylene	22	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB01-1.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB01-1.0		TPH DRO (high fraction)	ND	mg/kg		20.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB01-9.0	71-43-2	Benzene	2,700	ug/Kg		500	5,400	
CB01-9.0	108-88-3	Toluene	ND	ug/Kg		5,000	24,000,000	
CB01-9.0	100-41-4	Ethylbenzene	40,000	ug/Kg		500	7,800	**Y**
CB01-9.0	1330-20-7	Total Xylene	220,000	ug/Kg		1,500	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB01-9.0		TPH GRO (low fraction)	2,400	mg/kg		100.00	500	**Y**
CB01-9.0		TPH DRO (high fraction)	2,900	mg/kg		80.0	500	**Y**
Volatile Organic Compounds via USA EPA Method 8260B								
CB02-2.0	71-43-2	Benzene	17	ug/Kg		2.5	5,400	
CB02-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB02-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB02-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB02-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB02-2.0		TPH DRO (high fraction)	ND	mg/kg		80.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB02-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB02-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB02-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB02-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB02-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB02-7.0		TPH DRO (high fraction)	17	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB02-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB02-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB02-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB02-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB02-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB02-9.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB03-2.0	71-43-2	Benzene	4.2	ug/Kg		2.5	5,400	
CB03-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB03-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB03-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB03-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB03-2.0		TPH DRO (high fraction)	32	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB03-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB03-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB03-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB03-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB03-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB03-7.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB03-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB03-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB03-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB03-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB03-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB03-9.0		TPH DRO (high fraction)	6.9	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB04-2.0	71-43-2	Benzene	15	ug/Kg		2.5	5,400	
CB04-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB04-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB04-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB04-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB04-2.0		TPH DRO (high fraction)	14	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB04-7.0	71-43-2	Benzene	5.8	ug/Kg		2.5	5,400	
CB04-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB04-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB04-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB04-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB04-7.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB04-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB04-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB04-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB04-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB04-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB04-9.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB05-2.0	71-43-2	Benzene	4	ug/Kg		2.5	5,400	
CB05-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB05-2.0	100-41-4	Ethylbenzene	12	ug/Kg		2.5	7,800	
CB05-2.0	1330-20-7	Total Xylene	97	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB05-2.0		TPH GRO (low fraction)	0.77	mg/kg		0.50	500	
CB05-2.0		TPH DRO (high fraction)	4.7	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB05-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB05-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB05-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB05-7.0	1330-20-7	Total Xylene	12	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB05-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB05-7.0		TPH DRO (high fraction)	34	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB05-9.0	71-43-2	Benzene	17,000	ug/Kg		500	5,400	**Y**

Cliff Brice Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
CB05-9.0	108-88-3	Toluene	150,000	ug/Kg		5,000	24,000,000	
CB05-9.0	100-41-4	Ethylbenzene	45,000	ug/Kg		500	7,800	**Y**
CB05-9.0	1330-20-7	Total Xylene	240,000	ug/Kg		1,500	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								

Cliff Brice Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
CB05-9.0		TPH GRO (low fraction)	2,700	mg/kg		100.00	500	Y
CB05-9.0		TPH DRO (high fraction)	2,700	mg/kg		80.0	500	Y
Volatile Organic Compounds via USA EPA Method 8260B								
CB06-2.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB06-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB06-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB06-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB06-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB06-2.0		TPH DRO (high fraction)	ND	mg/kg		80.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB06-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB06-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB06-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB06-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB06-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB06-7.0		TPH DRO (high fraction)	ND	mg/kg		20.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB07-2.0	71-43-2	Benzene	3.2	ug/Kg		2.5	5,400	
CB07-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB07-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB07-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB07-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB07-2.0		TPH DRO (high fraction)	180	mg/kg		80.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB07-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB07-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB07-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB07-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB07-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB07-7.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB07-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
CB07-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB07-9.0	100-41-4	Ethylbenzene	9,000	ug/Kg		2.5	7,800	Y
CB07-9.0	1330-20-7	Total Xylene	29,000	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB07-9.0		TPH GRO (low fraction)	3,900	mg/kg		50.00	500	Y
CB07-9.0		TPH DRO (high fraction)	3,900	mg/kg		80.0	500	Y
Volatile Organic Compounds via USA EPA Method 8260B								
CB08-2.0	71-43-2	Benzene	34	ug/Kg		2.5	5,400	
CB08-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB08-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB08-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB08-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB08-2.0		TPH DRO (high fraction)	20	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB08-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB08-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB08-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB08-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB08-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB08-7.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB08-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB08-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB08-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB08-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB08-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB08-9.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB09-2.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB09-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB09-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB09-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB09-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB09-2.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB09-7.0	71-43-2	Benzene	2.7	ug/Kg		2.5	5,400	
CB09-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB09-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB09-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB09-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB09-7.0		TPH DRO (high fraction)	ND	mg/kg		80.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB09-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB09-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB09-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB09-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB09-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
CB09-9.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB10-2.0	71-43-2	Benzene	30	ug/Kg		2.5	5,400	
CB10-2.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB10-2.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB10-2.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB10-2.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB10-2.0		TPH DRO (high fraction)	110	mg/kg		40.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB10-7.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB10-7.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB10-7.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB10-7.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB10-7.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB10-7.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Volatile Organic Compounds via USA EPA Method 8260B								
CB10-9.0	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
CB10-9.0	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
CB10-9.0	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
CB10-9.0	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
CB10-9.0		TPH GRO (low fraction)	ND	mg/kg		0.50	500	
CB10-9.0		TPH DRO (high fraction)	ND	mg/kg		4.0	500	
Metals Via USA EPA Method 6010B and 7471A								
WAMW4(4-6)	7440-38-2	Arsenic	6.2	mg/Kg		1.8	1.6	Y
WAMW4(4-6)	7440-39-3	Barium	150	mg/Kg		0.91	190,000	
WAMW4(4-6)	7440-43-9	Cadmium	0.92	mg/Kg		0.45	800	
WAMW4(4-6)	7440-47-3	Chromium	7.4	mg/Kg		1.4	1,500,000	
WAMW4(4-6)	7439-92-1	Lead	150	mg/Kg		0.73	800	
WAMW4(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
WAMW4(4-6)	7440-22-4	Silver	ND	mg/Kg		0.91	5,100	
WAMW4(4-6)	7439-97-6	Mercury	46	ug/Kg		19	310	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WAMW4(4-6)		DRO [C10-C36]	21	mg/Kg		4	500(*)	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW4(4-6)	8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.5	mg/Kg	J	1.2	500(*)	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
WAMW4(4-6)	90-12-0	1-Methylnaphthalene	12000	ng/Kg		5000	82,000,000	
WAMW4(4-6)	91-57-6	2-Methylnaphthalene	13000	ng/Kg		5000	3,400,000,000	
WAMW4(4-6)	83-32-9	Acenaphthene	2200	ng/Kg	J	5000	33,000,000,000	
WAMW4(4-6)	208-96-8	Acenaphthylene	17000	ng/Kg		5000	no value	
WAMW4(4-6)	120-12-7	Anthracene	14000	ng/Kg		5000	170,000,000,000	
WAMW4(4-6)	56-55-3	Benzo[a]anthracene	34000	ng/Kg		5000	2,100,000	
WAMW4(4-6)	50-32-8	Benzo[a]pyrene	53000	ng/Kg		5000	210,000	
WAMW4(4-6)	205-99-2	Benzo[b]fluoranthene	97000	ng/Kg		5000	1,300,000	
WAMW4(4-6)	191-24-2	Benzo[g,h,i]perylene	41000	ng/Kg		5000	no value	
WAMW4(4-6)	207-08-9	Benzo[k]fluoranthene	32000	ng/Kg		5000	21,000,000	
WAMW4(4-6)	218-01-9	Chrysene	56000	ng/Kg		5000	210,000,000	
WAMW4(4-6)	53-70-3	Dibenz(a,h)anthracene	12000	ng/Kg		5000	210,000	
WAMW4(4-6)	206-44-0	Fluoranthene	42000	ng/Kg		5000	22,000,000,000	
WAMW4(4-6)	86-73-7	Fluorene	2000	ng/Kg	J	5000	22,000,000,000	
WAMW4(4-6)	193-39-5	Indeno[1,2,3-cd]pyrene	43000	ng/Kg		5000	21,000,000	
WAMW4(4-6)	91-20-3	Naphthalene	12000	ng/Kg		5000	18,000,000	
WAMW4(4-6)	85-01-8	Phenanthrene	32000	ng/Kg		5000	no value	
WAMW4(4-6)	129-00-0	Pyrene	45000	ng/Kg		5000	17,000,000,000	
n of Oil and Public Safety Screening Level								
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW4(4-6)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		5	38,000,000	
WAMW4(4-6)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	2,800	
WAMW4(4-6)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		5	5,300	
WAMW4(4-6)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		20	180,000,000	
WAMW4(4-6)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		5	17,000	
WAMW4(4-6)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		5	1,100,000	
WAMW4(4-6)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		5	490,000	
WAMW4(4-6)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		5	99,000	
WAMW4(4-6)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		10	69	
WAMW4(4-6)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		5	170	
WAMW4(4-6)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		5	9,800,000	
WAMW4(4-6)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		5	2,200	
WAMW4(4-6)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		5	4,700	
WAMW4(4-6)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		5	no value	
WAMW4(4-6)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		5	12,000	
WAMW4(4-6)	123-91-1	1,4-Dioxane	ND	ug/Kg		500	17,000	
WAMW4(4-6)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		20	200,000,000	
WAMW4(4-6)	591-78-6	2-Hexanone	ND	ug/Kg		20	1,400,000	
WAMW4(4-6)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		20	53,000,000	
WAMW4(4-6)	67-64-1	Acetone	5.8	ug/Kg	J B	20	630,000,000	
WAMW4(4-6)	71-43-2	Benzene	ND	ug/Kg		5	5,400	
WAMW4(4-6)	75-25-2	Bromoform	0.37	ug/Kg	J B	5	220,000	
WAMW4(4-6)	74-83-9	Bromomethane	ND	ug/Kg		10	32,000	
WAMW4(4-6)	75-15-0	Carbon disulfide	ND	ug/Kg		5	3,700,000	
WAMW4(4-6)	56-23-5	Carbon tetrachloride	ND	ug/Kg		5	3,000	
WAMW4(4-6)	108-90-7	Chlorobenzene	ND	ug/Kg		5	1,400,000	
WAMW4(4-6)	74-97-5	Chlorobromomethane	ND	ug/Kg		5	680,000	
WAMW4(4-6)	124-48-1	Chlorodibromomethane	ND	ug/Kg		5	3,300	
WAMW4(4-6)	75-00-3	Chloroethane	ND	ug/Kg		10	3,400	
WAMW4(4-6)	67-66-3	Chloroform	ND	ug/Kg		10	1,500	
WAMW4(4-6)	74-87-3	Chloromethane	ND	ug/Kg		10	500,000	
WAMW4(4-6)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.5	2,000,000	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW4(4-6)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		5	8,300	
WAMW4(4-6)	110-82-7	Cyclohexane	ND	ug/Kg		5	2,900,000	
WAMW4(4-6)	75-27-4	Dichlorobromomethane	ND	ug/Kg		5	1,400	
WAMW4(4-6)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		10	400,000	
WAMW4(4-6)	100-41-4	Ethylbenzene	ND	ug/Kg		5	7,800	
WAMW4(4-6)	98-82-8	Isopropylbenzene	ND	ug/Kg		5	27,000	
WAMW4(4-6)	79-20-9	Methyl acetate	ND	ug/Kg		10	1,000,000,000,000	
WAMW4(4-6)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		20	220,000	
WAMW4(4-6)	108-87-2	Methylcyclohexane	ND	ug/Kg		5	no value	
WAMW4(4-6)	75-09-2	Methylene Chloride	2.5	ug/Kg	J B	5	no value	
WAMW4(4-6)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.5	2,500,000	
WAMW4(4-6)	95-47-6	o-Xylene	ND	ug/Kg		2.5	3,000,000	
WAMW4(4-6)	100-42-5	Styrene	ND	ug/Kg		5	3,600,000	
WAMW4(4-6)	127-18-4	Tetrachloroethene	6.7	ug/Kg		5	110,000	
WAMW4(4-6)	108-88-3	Toluene	ND	ug/Kg		5	45,000,000	
WAMW4(4-6)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.5	690,000	
WAMW4(4-6)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		5	8,300	
WAMW4(4-6)	79-01-6	Trichloroethene	ND	ug/Kg		5	6,400	
WAMW4(4-6)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		10	3,400,000	
WAMW4(4-6)	75-01-4	Vinyl chloride	ND	ug/Kg		5	1,700	
WAMW4(4-6)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.5	2,700,000	
Metals Via USA EPA Method 6010B and 7471A								
WAMW4(8-10)	7440-38-2	Arsenic	1.8	mg/Kg		1.8	1.6	Y
WAMW4(8-10)	7440-39-3	Barium	35	mg/Kg		0.88	190,000	
WAMW4(8-10)	7440-43-9	Cadmium	ND	mg/Kg		0.44	800	
WAMW4(8-10)	7440-47-3	Chromium	5.1	mg/Kg		1.3	1,500,000	
WAMW4(8-10)	7439-92-1	Lead	7.8	mg/Kg		0.7	800	
WAMW4(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.1	5,100	
WAMW4(8-10)	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
WAMW4(8-10)	7439-97-6	Mercury	ND	ug/Kg		17	310	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WAMW4(8-10)		DRO [C10-C36]	3.6	mg/Kg	J	3.9	500(*)	

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW4(8-10)	8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	mg/Kg		1.2	500(*)	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
WAMW4(8-10)	90-12-0	1-Methylnaphthalene	ND	ng/Kg		4900	82,000,000	
WAMW4(8-10)	91-57-6	2-Methylnaphthalene	ND	ng/Kg		4900	3,400,000,000	
WAMW4(8-10)	83-32-9	Acenaphthene	ND	ng/Kg		4900	33,000,000,000	
WAMW4(8-10)	208-96-8	Acenaphthylene	ND	ng/Kg		4900	no value	
WAMW4(8-10)	120-12-7	Anthracene	ND	ng/Kg		4900	170,000,000,000	
WAMW4(8-10)	56-55-3	Benzo[a]anthracene	ND	ng/Kg		4900	2,100,000	
WAMW4(8-10)	50-32-8	Benzo[a]pyrene	ND	ng/Kg		4900	210,000	
WAMW4(8-10)	205-99-2	Benzo[b]fluoranthene	ND	ng/Kg		4900	1,300,000	
WAMW4(8-10)	191-24-2	Benzo[g,h,i]perylene	ND	ng/Kg		4900	no value	
WAMW4(8-10)	207-08-9	Benzo[k]fluoranthene	ND	ng/Kg		4900	21,000,000	
WAMW4(8-10)	218-01-9	Chrysene	ND	ng/Kg		4900	210,000,000	
WAMW4(8-10)	53-70-3	Dibenz(a,h)anthracene	ND	ng/Kg		4900	210,000	
WAMW4(8-10)	206-44-0	Fluoranthene	ND	ng/Kg		4900	22,000,000,000	
WAMW4(8-10)	86-73-7	Fluorene	ND	ng/Kg		4900	22,000,000,000	
WAMW4(8-10)	193-39-5	Indeno[1,2,3-cd]pyrene	ND	ng/Kg		4900	21,000,000	
WAMW4(8-10)	91-20-3	Naphthalene	ND	ng/Kg		4900	18,000,000	
WAMW4(8-10)	85-01-8	Phenanthrene	ND	ng/Kg		4900	no value	
WAMW4(8-10)	129-00-0	Pyrene	ND	ng/Kg		4900	17,000,000,000	
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW4(8-10)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.6	38,000,000	
WAMW4(8-10)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.6	2,800	
WAMW4(8-10)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.6	5,300	
WAMW4(8-10)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		18	180,000,000	
WAMW4(8-10)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.6	17,000	
WAMW4(8-10)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.6	1,100,000	
WAMW4(8-10)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.6	490,000	
WAMW4(8-10)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.6	99,000	
WAMW4(8-10)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		9.2	69	
WAMW4(8-10)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.6	170	
WAMW4(8-10)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.6	9,800,000	
WAMW4(8-10)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.6	2,200	
WAMW4(8-10)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.6	4,700	
WAMW4(8-10)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.6	no value	
WAMW4(8-10)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.6	12,000	
WAMW4(8-10)	123-91-1	1,4-Dioxane	ND	ug/Kg		460	17,000	
WAMW4(8-10)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		18	200,000,000	
WAMW4(8-10)	591-78-6	2-Hexanone	ND	ug/Kg		18	1,400,000	
WAMW4(8-10)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		18	53,000,000	
WAMW4(8-10)	67-64-1	Acetone	ND	ug/Kg		18	630,000,000	
WAMW4(8-10)	71-43-2	Benzene	ND	ug/Kg		4.6	5,400	
WAMW4(8-10)	75-25-2	Bromoform	0.31	ug/Kg	J B	4.6	220,000	
WAMW4(8-10)	74-83-9	Bromomethane	ND	ug/Kg		9.2	32,000	
WAMW4(8-10)	75-15-0	Carbon disulfide	ND	ug/Kg		4.6	3,700,000	
WAMW4(8-10)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.6	3,000	
WAMW4(8-10)	108-90-7	Chlorobenzene	ND	ug/Kg		4.6	1,400,000	
WAMW4(8-10)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.6	680,000	
WAMW4(8-10)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.6	3,300	
WAMW4(8-10)	75-00-3	Chloroethane	ND	ug/Kg		9.2	3,400	
WAMW4(8-10)	67-66-3	Chloroform	ND	ug/Kg		9.2	1,500	
WAMW4(8-10)	74-87-3	Chloromethane	ND	ug/Kg		9.2	500,000	
WAMW4(8-10)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.3	2,000,000	
WAMW4(8-10)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.6	8,300	
WAMW4(8-10)	110-82-7	Cyclohexane	ND	ug/Kg		4.6	2,900,000	

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW4(8-10)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.6	1,400	
WAMW4(8-10)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		9.2	400,000	
WAMW4(8-10)	100-41-4	Ethylbenzene	ND	ug/Kg		4.6	7,800	
WAMW4(8-10)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.6	27,000	
WAMW4(8-10)	79-20-9	Methyl acetate	ND	ug/Kg		9.2	1,000,000,000,000	
WAMW4(8-10)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		18	220,000	
WAMW4(8-10)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.6	no value	
WAMW4(8-10)	75-09-2	Methylene Chloride	ND	ug/Kg		4.6	no value	
WAMW4(8-10)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.3	2,500,000	
WAMW4(8-10)	95-47-6	o-Xylene	ND	ug/Kg		2.3	3,000,000	
WAMW4(8-10)	100-42-5	Styrene	ND	ug/Kg		4.6	3,600,000	
WAMW4(8-10)	127-18-4	Tetrachloroethene	ND	ug/Kg		4.6	110,000	
WAMW4(8-10)	108-88-3	Toluene	ND	ug/Kg		4.6	45,000,000	
WAMW4(8-10)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.3	690,000	
WAMW4(8-10)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.6	8,300	
WAMW4(8-10)	79-01-6	Trichloroethene	ND	ug/Kg		4.6	6,400	
WAMW4(8-10)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		9.2	3,400,000	
WAMW4(8-10)	75-01-4	Vinyl chloride	ND	ug/Kg		4.6	1,700	
WAMW4(8-10)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.3	2,700,000	
Metals Via USA EPA Method 6010B and 7471A								
WAMW5(4-6)	7440-38-2	Arsenic	3.9	mg/Kg		1.8	1.6	Y
WAMW5(4-6)	7440-39-3	Barium	150	mg/Kg		0.9	190,000	
WAMW5(4-6)	7440-43-9	Cadmium	0.39	mg/Kg	J	0.45	800	
WAMW5(4-6)	7440-47-3	Chromium	15	mg/Kg		1.4	1,500,000	
WAMW5(4-6)	7439-92-1	Lead	14	mg/Kg		0.72	800	
WAMW5(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
WAMW5(4-6)	7440-22-4	Silver	ND	mg/Kg		0.9	5,100	
WAMW5(4-6)	7439-97-6	Mercury	ND	ug/Kg		19	310	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WAMW5(4-6)		DRO [C10-C36]	7.4	mg/Kg		3.9	500(*)	
WAMW5(4-6)	8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	mg/Kg		1.2	500(*)	
WAMW5(4-6)D		DRO [C10-C36]	260	mg/Kg		3.9	500(*)	
WAMW5(4-6)D	8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.8	mg/Kg	J	1.2	500(*)	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
WAMW5(4-6)	90-12-0	1-Methylnaphthalene	420	ng/Kg	J	4900	82,000,000	
WAMW5(4-6)	91-57-6	2-Methylnaphthalene	510	ng/Kg	J	4900	3,400,000,000	
WAMW5(4-6)	83-32-9	Acenaphthene	ND	ng/Kg		4900	33,000,000,000	
WAMW5(4-6)	208-96-8	Acenaphthylene	ND	ng/Kg		4900	no value	
WAMW5(4-6)	120-12-7	Anthracene	ND	ng/Kg		4900	170,000,000,000	
WAMW5(4-6)	56-55-3	Benzo[a]anthracene	ND	ng/Kg		4900	2,100,000	
WAMW5(4-6)	50-32-8	Benzo[a]pyrene	ND	ng/Kg		4900	210,000	
WAMW5(4-6)	205-99-2	Benzo[b]fluoranthene	ND	ng/Kg		4900	1,300,000	
WAMW5(4-6)	191-24-2	Benzo[g,h,i]perylene	ND	ng/Kg		4900	no value	
WAMW5(4-6)	207-08-9	Benzo[k]fluoranthene	ND	ng/Kg		4900	21,000,000	
WAMW5(4-6)	218-01-9	Chrysene	ND	ng/Kg		4900	210,000,000	
WAMW5(4-6)	53-70-3	Dibenz(a,h)anthracene	ND	ng/Kg		4900	210,000	
WAMW5(4-6)	206-44-0	Fluoranthene	ND	ng/Kg		4900	22,000,000,000	
WAMW5(4-6)	86-73-7	Fluorene	ND	ng/Kg		4900	22,000,000,000	
WAMW5(4-6)	193-39-5	Indeno[1,2,3-cd]pyrene	ND	ng/Kg		4900	21,000,000	
WAMW5(4-6)	91-20-3	Naphthalene	420	ng/Kg	J	4900	18,000,000	
WAMW5(4-6)	85-01-8	Phenanthrene	ND	ng/Kg		4900	no value	
WAMW5(4-6)	129-00-0	Pyrene	ND	ng/Kg		4900	17,000,000,000	
n of Oil and Public Safety Screening Level								
Volatile Organic Compounds via USA EPA Method 8260B								

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW5(4-6)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.9	38,000,000	
WAMW5(4-6)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.9	2,800	
WAMW5(4-6)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.9	5,300	
WAMW5(4-6)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		20	180,000,000	
WAMW5(4-6)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.9	17,000	
WAMW5(4-6)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.9	1,100,000	
WAMW5(4-6)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.9	490,000	
WAMW5(4-6)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.9	99,000	
WAMW5(4-6)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		9.8	69	
WAMW5(4-6)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.9	170	
WAMW5(4-6)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.9	9,800,000	
WAMW5(4-6)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.9	2,200	
WAMW5(4-6)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.9	4,700	
WAMW5(4-6)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.9	no value	
WAMW5(4-6)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.9	12,000	
WAMW5(4-6)	123-91-1	1,4-Dioxane	ND	ug/Kg		490	17,000	
WAMW5(4-6)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		20	200,000,000	
WAMW5(4-6)	591-78-6	2-Hexanone	ND	ug/Kg		20	1,400,000	
WAMW5(4-6)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		20	53,000,000	
WAMW5(4-6)	67-64-1	Acetone	ND	ug/Kg		20	630,000,000	
WAMW5(4-6)	71-43-2	Benzene	ND	ug/Kg		4.9	5,400	
WAMW5(4-6)	75-25-2	Bromoform	0.31	ug/Kg	J B	4.9	220,000	
WAMW5(4-6)	74-83-9	Bromomethane	ND	ug/Kg		9.8	32,000	
WAMW5(4-6)	75-15-0	Carbon disulfide	ND	ug/Kg		4.9	3,700,000	
WAMW5(4-6)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.9	3,000	
WAMW5(4-6)	108-90-7	Chlorobenzene	ND	ug/Kg		4.9	1,400,000	
WAMW5(4-6)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.9	680,000	
WAMW5(4-6)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.9	3,300	
WAMW5(4-6)	75-00-3	Chloroethane	ND	ug/Kg		9.8	3,400	
WAMW5(4-6)	67-66-3	Chloroform	ND	ug/Kg		9.8	1,500	
WAMW5(4-6)	74-87-3	Chloromethane	ND	ug/Kg		9.8	500,000	
WAMW5(4-6)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.5	2,000,000	
WAMW5(4-6)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW5(4-6)	110-82-7	Cyclohexane	ND	ug/Kg		4.9	2,900,000	
WAMW5(4-6)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.9	1,400	
WAMW5(4-6)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		9.8	400,000	
WAMW5(4-6)	100-41-4	Ethylbenzene	ND	ug/Kg		4.9	7,800	
WAMW5(4-6)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.9	27,000	
WAMW5(4-6)	79-20-9	Methyl acetate	ND	ug/Kg		9.8	1,000,000,000,000	
WAMW5(4-6)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		20	220,000	
WAMW5(4-6)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.9	no value	
WAMW5(4-6)	75-09-2	Methylene Chloride	2	ug/Kg	J B	4.9	no value	
WAMW5(4-6)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.5	2,500,000	
WAMW5(4-6)	95-47-6	o-Xylene	ND	ug/Kg		2.5	3,000,000	
WAMW5(4-6)	100-42-5	Styrene	ND	ug/Kg		4.9	3,600,000	
WAMW5(4-6)	127-18-4	Tetrachloroethene	1.8	ug/Kg	J	4.9	110,000	
WAMW5(4-6)	108-88-3	Toluene	ND	ug/Kg		4.9	45,000,000	
WAMW5(4-6)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.5	690,000	
WAMW5(4-6)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.9	8,300	
WAMW5(4-6)	79-01-6	Trichloroethene	ND	ug/Kg		4.9	6,400	
WAMW5(4-6)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		9.8	3,400,000	
WAMW5(4-6)	75-01-4	Vinyl chloride	ND	ug/Kg		4.9	1,700	
WAMW5(4-6)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.5	2,700,000	
Metals Via USA EPA Method 6010B and 7471A								
WAMW5(8-10)	7440-38-2	Arsenic	2.4	mg/Kg		1.8	1.6	Y

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW5(8-10)	7440-39-3	Barium	65	mg/Kg		0.91	190,000	
WAMW5(8-10)	7440-43-9	Cadmium	ND	mg/Kg		0.45	800	
WAMW5(8-10)	7440-47-3	Chromium	8.1	mg/Kg		1.4	1,500,000	
WAMW5(8-10)	7439-92-1	Lead	4.7	mg/Kg		0.73	800	
WAMW5(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
WAMW5(8-10)	7440-22-4	Silver	ND	mg/Kg		0.91	5,100	
WAMW5(8-10)	7439-97-6	Mercury	ND	ug/Kg		17	310	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
WAMW5(8-10)		DRO [C10-C36]	1	mg/Kg	J	3.9	500(*)	
WAMW5(8-10)	8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.88	mg/Kg	J	1.2	500(*)	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
WAMW5(8-10)	90-12-0	1-Methylnaphthalene	380	ng/Kg	J	4900	82,000,000	
WAMW5(8-10)	91-57-6	2-Methylnaphthalene	470	ng/Kg	J	4900	3,400,000,000	
WAMW5(8-10)	83-32-9	Acenaphthene	ND	ng/Kg		4900	33,000,000,000	
WAMW5(8-10)	208-96-8	Acenaphthylene	ND	ng/Kg		4900	no value	
WAMW5(8-10)	120-12-7	Anthracene	ND	ng/Kg		4900	170,000,000,000	
WAMW5(8-10)	56-55-3	Benzo[a]anthracene	ND	ng/Kg		4900	2,100,000	
WAMW5(8-10)	50-32-8	Benzo[a]pyrene	1100	ng/Kg	J	4900	210,000	
WAMW5(8-10)	205-99-2	Benzo[b]fluoranthene	1600	ng/Kg	J	4900	1,300,000	
WAMW5(8-10)	191-24-2	Benzo[g,h,i]perylene	1300	ng/Kg	J	4900	no value	
WAMW5(8-10)	207-08-9	Benzo[k]fluoranthene	ND	ng/Kg		4900	21,000,000	
WAMW5(8-10)	218-01-9	Chrysene	1100	ng/Kg	J	4900	210,000,000	
WAMW5(8-10)	53-70-3	Dibenz(a,h)anthracene	ND	ng/Kg		4900	210,000	
WAMW5(8-10)	206-44-0	Fluoranthene	1400	ng/Kg	J	4900	22,000,000,000	
WAMW5(8-10)	86-73-7	Fluorene	ND	ng/Kg		4900	22,000,000,000	
WAMW5(8-10)	193-39-5	Indeno[1,2,3-cd]pyrene	1300	ng/Kg	J	4900	21,000,000	
WAMW5(8-10)	91-20-3	Naphthalene	370	ng/Kg	J	4900	18,000,000	
WAMW5(8-10)	85-01-8	Phenanthrene	ND	ng/Kg		4900	no value	
WAMW5(8-10)	129-00-0	Pyrene	1200	ng/Kg	J	4900	17,000,000,000	
n of Oil and Public Safety Screening Level								
Volatile Organic Compounds via USA EPA Method 8260B								
WAMW5(8-10)	71-55-6	1,1,1-Trichloroethane	ND	ug/Kg		4.5	38,000,000	
WAMW5(8-10)	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/Kg		4.5	2,800	
WAMW5(8-10)	79-00-5	1,1,2-Trichloroethane	ND	ug/Kg		4.5	5,300	
WAMW5(8-10)	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		18	180,000,000	
WAMW5(8-10)	75-34-3	1,1-Dichloroethane	ND	ug/Kg		4.5	17,000	
WAMW5(8-10)	75-35-4	1,1-Dichloroethene	ND	ug/Kg		4.5	1,100,000	
WAMW5(8-10)	87-61-6	1,2,3-Trichlorobenzene	ND	ug/Kg		4.5	490,000	
WAMW5(8-10)	120-82-1	1,2,4-Trichlorobenzene	ND	ug/Kg		4.5	99,000	
WAMW5(8-10)	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/Kg		9.1	69	
WAMW5(8-10)	106-93-4	1,2-Dibromoethane	ND	ug/Kg		4.5	170	
WAMW5(8-10)	95-50-1	1,2-Dichlorobenzene	ND	ug/Kg		4.5	9,800,000	
WAMW5(8-10)	107-06-2	1,2-Dichloroethane	ND	ug/Kg		4.5	2,200	
WAMW5(8-10)	78-87-5	1,2-Dichloropropane	ND	ug/Kg		4.5	4,700	
WAMW5(8-10)	541-73-1	1,3-Dichlorobenzene	ND	ug/Kg		4.5	no value	
WAMW5(8-10)	106-46-7	1,4-Dichlorobenzene	ND	ug/Kg		4.5	12,000	
WAMW5(8-10)	123-91-1	1,4-Dioxane	ND	ug/Kg		450	17,000	
WAMW5(8-10)	78-93-3	2-Butanone (MEK)	ND	ug/Kg		18	200,000,000	
WAMW5(8-10)	591-78-6	2-Hexanone	ND	ug/Kg		18	1,400,000	
WAMW5(8-10)	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		18	53,000,000	
WAMW5(8-10)	67-64-1	Acetone	10	ug/Kg	J B	18	630,000,000	
WAMW5(8-10)	71-43-2	Benzene	ND	ug/Kg		4.5	5,400	
WAMW5(8-10)	75-25-2	Bromoform	0.3	ug/Kg	J B	4.5	220,000	
WAMW5(8-10)	74-83-9	Bromomethane	ND	ug/Kg		9.1	32,000	

Cliff Brice Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
WAMW5(8-10)	75-15-0	Carbon disulfide	ND	ug/Kg		4.5	3,700,000	
WAMW5(8-10)	56-23-5	Carbon tetrachloride	ND	ug/Kg		4.5	3,000	
WAMW5(8-10)	108-90-7	Chlorobenzene	ND	ug/Kg		4.5	1,400,000	
WAMW5(8-10)	74-97-5	Chlorobromomethane	ND	ug/Kg		4.5	680,000	
WAMW5(8-10)	124-48-1	Chlorodibromomethane	ND	ug/Kg		4.5	3,300	
WAMW5(8-10)	75-00-3	Chloroethane	ND	ug/Kg		9.1	3,400	
WAMW5(8-10)	67-66-3	Chloroform	ND	ug/Kg		9.1	1,500	
WAMW5(8-10)	74-87-3	Chloromethane	ND	ug/Kg		9.1	500,000	
WAMW5(8-10)	156-59-2	cis-1,2-Dichloroethene	ND	ug/Kg		2.3	2,000,000	
WAMW5(8-10)	10061-01-5	cis-1,3-Dichloropropene	ND	ug/Kg		4.5	8,300	
WAMW5(8-10)	110-82-7	Cyclohexane	ND	ug/Kg		4.5	2,900,000	
WAMW5(8-10)	75-27-4	Dichlorobromomethane	ND	ug/Kg		4.5	1,400	
WAMW5(8-10)	75-71-8	Dichlorodifluoromethane	ND	ug/Kg		9.1	400,000	
WAMW5(8-10)	100-41-4	Ethylbenzene	ND	ug/Kg		4.5	7,800	
WAMW5(8-10)	98-82-8	Isopropylbenzene	ND	ug/Kg		4.5	27,000	
WAMW5(8-10)	79-20-9	Methyl acetate	ND	ug/Kg		9.1	1,000,000,000,000	
WAMW5(8-10)	1634-04-4	Methyl tert-butyl ether	ND	ug/Kg		18	220,000	
WAMW5(8-10)	108-87-2	Methylcyclohexane	ND	ug/Kg		4.5	no value	
WAMW5(8-10)	75-09-2	Methylene Chloride	2.7	ug/Kg	J B	4.5	no value	
WAMW5(8-10)	179601-23-1	m-Xylene & p-Xylene	ND	ug/Kg		2.3	2,500,000	
WAMW5(8-10)	95-47-6	o-Xylene	ND	ug/Kg		2.3	3,000,000	
WAMW5(8-10)	100-42-5	Styrene	ND	ug/Kg		4.5	3,600,000	
WAMW5(8-10)	127-18-4	Tetrachloroethene	3.8	ug/Kg	J	4.5	110,000	
WAMW5(8-10)	108-88-3	Toluene	ND	ug/Kg		4.5	45,000,000	
WAMW5(8-10)	156-60-5	trans-1,2-Dichloroethene	ND	ug/Kg		2.3	690,000	
WAMW5(8-10)	10061-02-6	trans-1,3-Dichloropropene	ND	ug/Kg		4.5	8,300	
WAMW5(8-10)	79-01-6	Trichloroethene	ND	ug/Kg		4.5	6,400	
WAMW5(8-10)	75-69-4	Trichlorofluoromethane	ND	ug/Kg		9.1	3,400,000	
WAMW5(8-10)	75-01-4	Vinyl chloride	ND	ug/Kg		4.5	1,700	
WAMW5(8-10)	1330-20-7	Xylenes, Total	ND	ug/Kg		2.3	2,700,000	

ıe (USEPA Region 3) most stringent level used

Table 11. Results of Laboratory Analysis of Soil Samples collected at Acorn Property

Acorn Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Volatile Organic Compounds via USA EPA Method 8260B								
AO1-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO1-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO1-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO1-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO1-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO1-2 FT		TPH DRO (high fraction)	6	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO1-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO1-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO1-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO1-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO1-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO1-7 FT		TPH DRO (high fraction)	14	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO1-9 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO1-9 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO1-9 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO1-9 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO1-9 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO1-9 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO2-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO2-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO2-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO2-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO2-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO2-2 FT		TPH DRO (high fraction)	23	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO2-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO2-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO2-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO2-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO2-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO2-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO2-11 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO2-11 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	

Acorn Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
AO2-11 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO2-11 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO2-11 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO2-11 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO3-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO3-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO3-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO3-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO3-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO3-2 FT		TPH DRO (high fraction)	11	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO3-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO3-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO3-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO3-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO3-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO3-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO3-9 FT	71-43-2	Benzene	27	ug/Kg		2.5	5,400	
AO3-9 FT	108-88-3	Toluene	31	ug/Kg		25	24,000,000	
AO3-9 FT	100-41-4	Ethylbenzene	8.5	ug/Kg		2.5	7,800	
AO3-9 FT	1330-20-7	Total Xylene	36	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO3-9 FT		TPH GRO (low fraction)	17	mg/Kg		0.5	500	
AO3-9 FT		TPH DRO (high fraction)	6	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO4-2 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO4-2 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO4-2 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO4-2 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO4-2 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO4-2 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO4-7 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO4-7 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO4-7 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO4-7 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								

Acorn Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
AO4-7 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO4-7 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	
Volatile Organic Compounds via USA EPA Method 8260B								
AO4-9 FT	71-43-2	Benzene	ND	ug/Kg		2.5	5,400	
AO4-9 FT	108-88-3	Toluene	ND	ug/Kg		25	24,000,000	
AO4-9 FT	100-41-4	Ethylbenzene	ND	ug/Kg		2.5	7,800	
AO4-9 FT	1330-20-7	Total Xylene	ND	ug/Kg		7.5	2,700,000	
Total Petroleum Hydrocarbons Via USA EPA Method 8015B								
AO4-9 FT		TPH GRO (low fraction)	ND	mg/Kg		0.5	500	
AO4-9 FT		TPH DRO (high fraction)	ND	mg/Kg		4	500	

BDL = Below Detection Limit
mg/kg = milligrams per
BOLD = detection
Y = Exceedance

Table 12. Results of Laboratory Analysis of Soil Samples Collected at Speken Metal Property

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI01-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI01-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI01-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI01-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI01-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI01-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI01-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI01-2.0 0-2 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI01-2.0 0-2 FT	7440-38-2	Arsenic (As)	8.7	mg/kg		1.0	1.6	Y
SI01-2.0 0-2 FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
SI01-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	1.3	mg/kg		0.25	770	
SI01-2.0 0-2 FT	16065-83-1	Chromium (Cr)	8	mg/kg		0.50	1,500,000	
SI01-2.0 0-2 FT	7439-92-1	Lead (Pb)	130	mg/kg		0.25	800	
SI01-2.0 0-2 FT	7782-49-2	Selenium (Se)	2.8	mg/kg		1.0	5,100	
SI01-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI01-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI01-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI01-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI01-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI01-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI01-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI01-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI01-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.046	mg/kg		0.020	0.31	
SI01-7.0 5-7 FT	7440-38-2	Arsenic (As)	4.5	mg/kg		1.0	1.6	Y
SI01-7.0 5-7 FT	7440-39-3	Barium (Ba)	84	mg/kg		0.25	190,000	
SI01-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	0.25	mg/kg		0.25	770	
SI01-7.0 5-7 FT	16065-83-1	Chromium (Cr)	5.9	mg/kg		0.50	1,500,000	
SI01-7.0 5-7 FT	7439-92-1	Lead (Pb)	45	mg/kg		0.25	800	
SI01-7.0 5-7 FT	7782-49-2	Selenium (Se)	1.1	mg/kg		1.0	5,100	
SI01-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI01-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI01-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI01-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI01-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI01-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI01-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI01-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI01-9.0 7-9 FT	7440-38-2	Arsenic (As)	3.8	mg/kg		1.0	1.6	Y
SI01-9.0 7-9 FT	7440-39-3	Barium (Ba)	60	mg/kg		0.25	190,000	
SI01-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI01-9.0 7-9 FT	16065-83-1	Chromium (Cr)	6.6	mg/kg		0.50	1,500,000	
SI01-9.0 7-9 FT	7439-92-1	Lead (Pb)	42	mg/kg		0.25	800	
SI01-9.0 7-9 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI01-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI02-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI02-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI02-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI02-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI02-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI02-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI02-2.0 0-2 FT	11096-82-5	PCB 1260	140	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI02-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.034	mg/kg		0.020	0.31	
SI02-2.0 0-2 FT	7440-38-2	Arsenic (As)	9.3	mg/kg		1.0	1.6	Y
SI02-2.0 0-2 FT	7440-39-3	Barium (Ba)	100	mg/kg		0.25	190,000	
SI02-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	0.91	mg/kg		0.25	770	
SI02-2.0 0-2 FT	16065-83-1	Chromium (Cr)	5.6	mg/kg		0.50	1,500,000	
SI02-2.0 0-2 FT	7439-92-1	Lead (Pb)	100	mg/kg		0.25	800	
SI02-2.0 0-2 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI02-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI02-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI02-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI02-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI02-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI02-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI02-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI02-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI02-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.76	mg/kg		0.020	0.31	Y
SI02-7.0 5-7 FT	7440-38-2	Arsenic (As)	68	mg/kg		1.0	1.6	Y
SI02-7.0 5-7 FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
SI02-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	8.7	mg/kg		0.25	770	
SI02-7.0 5-7 FT	16065-83-1	Chromium (Cr)	8.4	mg/kg		0.50	1,500,000	
SI02-7.0 5-7 FT	7439-92-1	Lead (Pb)	990	mg/kg		0.25	800	Y
SI02-7.0 5-7 FT	7782-49-2	Selenium (Se)	2.4	mg/kg		1.0	5,100	
SI02-7.0 5-7 FT	7440-22-4	Silver (Ag)	4.3	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI02-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI02-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI02-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI02-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI02-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI02-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI02-9.0 7-9 FT	11096-82-5	PCB 1260	22	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI02-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI02-9.0 7-9 FT	7440-38-2	Arsenic (As)	3.3	mg/kg		1.0	1.6	Y
SI02-9.0 7-9 FT	7440-39-3	Barium (Ba)	50	mg/kg		0.25	190,000	
SI02-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI02-9.0 7-9 FT	16065-83-1	Chromium (Cr)	8.9	mg/kg		0.50	1,500,000	
SI02-9.0 7-9 FT	7439-92-1	Lead (Pb)	14	mg/kg		0.25	800	
SI02-9.0 7-9 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI02-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI03-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI03-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI03-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI03-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	

Speken Metal Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI03-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI03-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI03-2.0 0-2 FT	11096-82-5	PCB 1260	160	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI03-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.12	mg/kg		0.020	0.31	
SI03-2.0 0-2 FT	7440-38-2	Arsenic (As)	24	mg/kg		1.0	1.6	Y
SI03-2.0 0-2 FT	7440-39-3	Barium (Ba)	300	mg/kg		0.25	190,000	
SI03-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	2.5	mg/kg		0.25	770	
SI03-2.0 0-2 FT	16065-83-1	Chromium (Cr)	35	mg/kg		0.50	1,500,000	Y
SI03-2.0 0-2 FT	7439-92-1	Lead (Pb)	1600	mg/kg		0.25	800	
SI03-2.0 0-2 FT	7782-49-2	Selenium (Se)	4.7	mg/kg		1.0	5,100	
SI03-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI03-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI03-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI03-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI03-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI03-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI03-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI03-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI03-7.0 5-7 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI03-7.0 5-7 FT	7440-38-2	Arsenic (As)	5.0	mg/kg		1.0	1.6	Y
SI03-7.0 5-7 FT	7440-39-3	Barium (Ba)	96	mg/kg		0.25	190,000	
SI03-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI03-7.0 5-7 FT	16065-83-1	Chromium (Cr)	12	mg/kg		0.50	1,500,000	
SI03-7.0 5-7 FT	7439-92-1	Lead (Pb)	23	mg/kg		0.25	800	
SI03-7.0 5-7 FT	7782-49-2	Selenium (Se)	2.3	mg/kg		1.0	5,100	
SI03-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI03-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI03-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI03-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI03-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI03-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI03-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI03-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI03-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI03-9.0 7-9 FT	7440-38-2	Arsenic (As)	3.0	mg/kg		1.0	1.6	Y
SI03-9.0 7-9 FT	7440-39-3	Barium (Ba)	45	mg/kg		0.25	190,000	
SI03-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI03-9.0 7-9 FT	16065-83-1	Chromium (Cr)	5.6	mg/kg		0.50	1,500,000	
SI03-9.0 7-9 FT	7439-92-1	Lead (Pb)	11	mg/kg		0.25	800	
SI03-9.0 7-9 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI03-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI04-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI04-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI04-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI04-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI04-2.0 0-2 FT	12672-29-6	PCB 1248	9,800	ug/Kg		17	740	Y
SI04-2.0 0-2 FT	11097-69-1	PCB 1254	3,800	ug/Kg		17	740	Y

Speken Metal Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI04-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI04-2.0 0-2 FT	7439-97-6	Mercury (Hg)	4.7	mg/kg		0.020	0.31	Y
SI04-2.0 0-2 FT	7440-38-2	Arsenic (As)	110	mg/kg		1.0	1.6	Y
SI04-2.0 0-2 FT	7440-39-3	Barium (Ba)	860	mg/kg		0.25	190,000	
SI04-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	36	mg/kg		0.25	770	
SI04-2.0 0-2 FT	16065-83-1	Chromium (Cr)	170	mg/kg		0.50	1,500,000	
SI04-2.0 0-2 FT	7439-92-1	Lead (Pb)	5500	mg/kg		0.25	800	Y
SI04-2.0 0-2 FT	7782-49-2	Selenium (Se)	15	mg/kg		1.0	5,100	
SI04-2.0 0-2 FT	7440-22-4	Silver (Ag)	10	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI04-7.0 5-7 FT	12674-11-2	PCB 1016	ND	mg/kg		0.017	21	
SI04-7.0 5-7 FT	11104-28-2	PCB 1221	ND	mg/kg		0.017	0.54	
SI04-7.0 5-7 FT	11141-16-5	PCB 1232	ND	mg/kg		0.017	0.54	
SI04-7.0 5-7 FT	53469-21-9	PCB 1242	ND	mg/kg		0.017	0.74	
SI04-7.0 5-7 FT	12672-29-6	PCB 1248	ND	mg/kg		0.017	0.74	
SI04-7.0 5-7 FT	11097-69-1	PCB 1254	ND	mg/kg		0.017	0.74	
SI04-7.0 5-7 FT	11096-82-5	PCB 1260	ND	mg/kg		0.017	0.74	
Metals Via USA EPA Method 6010B and 7471A								
SI04-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.029	mg/kg		0.020	0.31	
SI04-7.0 5-7 FT	7440-38-2	Arsenic (As)	5.8	mg/kg		1.0	1.6	Y
SI04-7.0 5-7 FT	7440-39-3	Barium (Ba)	77	mg/kg		0.25	190,000	
SI04-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	0.88	mg/kg		0.25	770	
SI04-7.0 5-7 FT	16065-83-1	Chromium (Cr)	6.2	mg/kg		0.50	1,500,000	
SI04-7.0 5-7 FT	7439-92-1	Lead (Pb)	230	mg/kg		0.25	800	
SI04-7.0 5-7 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI04-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI04-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI04-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI04-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI04-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI04-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI04-9.0 7-9 FT	11097-69-1	PCB 1254	3,600	ug/Kg		17	740	Y
SI04-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI04-9.0 7-9 FT	7439-97-6	Mercury (Hg)	0.54	mg/kg		0.020	0.31	Y
SI04-9.0 7-9 FT	7440-38-2	Arsenic (As)	40.0	mg/kg		1.0	1.6	Y
SI04-9.0 7-9 FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
SI04-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	11	mg/kg		0.25	770	
SI04-9.0 7-9 FT	16065-83-1	Chromium (Cr)	260	mg/kg		0.50	1,500,000	
SI04-9.0 7-9 FT	7439-92-1	Lead (Pb)	1800	mg/kg		0.25	800	Y
SI04-9.0 7-9 FT	7782-49-2	Selenium (Se)	6.0	mg/kg		1.0	5,100	
SI04-9.0 7-9 FT	7440-22-4	Silver (Ag)	0.77	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI05-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI05-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI05-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI05-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI05-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI05-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI05-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI05-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.12	mg/kg		0.020	0.31	
SI05-2.0 0-2 FT	7440-38-2	Arsenic (As)	16	mg/kg		1.0	1.6	Y
SI05-2.0 0-2 FT	7440-39-3	Barium (Ba)	350	mg/kg		0.25	190,000	
SI05-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	3.0	mg/kg		0.25	770	
SI05-2.0 0-2 FT	16065-83-1	Chromium (Cr)	10	mg/kg		0.50	1,500,000	
SI05-2.0 0-2 FT	7439-92-1	Lead (Pb)	620	mg/kg		0.25	800	
SI05-2.0 0-2 FT	7782-49-2	Selenium (Se)	3.6	mg/kg		1.0	5,100	
SI05-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI05-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI05-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI05-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI05-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI05-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI05-7.0 5-7 FT	11097-69-1	PCB 1254	58	ug/Kg		17	740	
SI05-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI05-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.025	mg/kg		0.020	0.31	
SI05-7.0 5-7 FT	7440-38-2	Arsenic (As)	6.4	mg/kg		1.0	1.6	Y
SI05-7.0 5-7 FT	7440-39-3	Barium (Ba)	140	mg/kg		0.25	190,000	
SI05-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI05-7.0 5-7 FT	16065-83-1	Chromium (Cr)	13	mg/kg		0.50	1,500,000	
SI05-7.0 5-7 FT	7439-92-1	Lead (Pb)	110	mg/kg		0.25	800	
SI05-7.0 5-7 FT	7782-49-2	Selenium (Se)	2	mg/kg		1.0	5,100	
SI05-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI05-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI05-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI05-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI05-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI05-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI05-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI05-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI05-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI05-9.0 7-9 FT	7440-38-2	Arsenic (As)	2.2	mg/kg		1.0	1.6	Y
SI05-9.0 7-9 FT	7440-39-3	Barium (Ba)	41	mg/kg		0.25	190,000	
SI05-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI05-9.0 7-9 FT	16065-83-1	Chromium (Cr)	4.8	mg/kg		0.50	1,500,000	
SI05-9.0 7-9 FT	7439-92-1	Lead (Pb)	19	mg/kg		0.25	800	
SI05-9.0 7-9 FT	7782-49-2	Selenium (Se)	1.2	mg/kg		1.0	5,100	
SI05-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI06-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI06-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI06-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI06-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI06-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI06-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI06-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI06-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.062	mg/kg		0.020	0.31	
SI06-2.0 0-2 FT	7440-38-2	Arsenic (As)	14	mg/kg		1.0	1.6	Y

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI06-2.0 0-2 FT	7440-39-3	Barium (Ba)	750	mg/kg		0.25	190,000	
SI06-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	1.3	mg/kg		0.25	770	
SI06-2.0 0-2 FT	16065-83-1	Chromium (Cr)	12	mg/kg		0.50	1,500,000	
SI06-2.0 0-2 FT	7439-92-1	Lead (Pb)	370	mg/kg		0.25	800	
SI06-2.0 0-2 FT	7782-49-2	Selenium (Se)	3	mg/kg		1.0	5,100	
SI06-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI06-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI06-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI06-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI06-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI06-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI06-7.0 5-7 FT	11097-69-1	PCB 1254	58	ug/Kg		17	740	
SI06-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI06-7.0 5-7 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI06-7.0 5-7 FT	7440-38-2	Arsenic (As)	5.5	mg/kg		1.0	1.6	Y
SI06-7.0 5-7 FT	7440-39-3	Barium (Ba)	130	mg/kg		0.25	190,000	
SI06-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI06-7.0 5-7 FT	16065-83-1	Chromium (Cr)	11	mg/kg		0.50	1,500,000	
SI06-7.0 5-7 FT	7439-92-1	Lead (Pb)	21	mg/kg		0.25	800	
SI06-7.0 5-7 FT	7782-49-2	Selenium (Se)	1.8	mg/kg		1.0	5,100	
SI06-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI06-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI06-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI06-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI06-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI06-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI06-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI06-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI06-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI06-9.0 7-9 FT	7440-38-2	Arsenic (As)	3.7	mg/kg		1.0	1.6	Y
SI06-9.0 7-9 FT	7440-39-3	Barium (Ba)	34	mg/kg		0.25	190,000	
SI06-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI06-9.0 7-9 FT	16065-83-1	Chromium (Cr)	8.4	mg/kg		0.50	1,500,000	
SI06-9.0 7-9 FT	7439-92-1	Lead (Pb)	16	mg/kg		0.25	800	
SI06-9.0 7-9 FT	7782-49-2	Selenium (Se)	1.1	mg/kg		1.0	5,100	
SI06-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI07-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI07-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI07-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI07-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI07-2.0 0-2 FT	12672-29-6	PCB 1248	610	ug/Kg		17	740	
SI07-2.0 0-2 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI07-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI07-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.75	mg/kg		0.020	0.31	
SI07-2.0 0-2 FT	7440-38-2	Arsenic (As)	19	mg/kg		1.0	1.6	Y
SI07-2.0 0-2 FT	7440-39-3	Barium (Ba)	3	mg/kg		0.25	190,000	
SI07-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	7.9	mg/kg		0.25	770	

Speken Metal Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI07-2.0 0-2 FT	16065-83-1	Chromium (Cr)	32	mg/kg		0.50	1,500,000	
SI07-2.0 0-2 FT	7439-92-1	Lead (Pb)	610	mg/kg		0.25	800	
SI07-2.0 0-2 FT	7782-49-2	Selenium (Se)	3	mg/kg		1.0	5,100	
SI07-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Metals Via USA EPA Method 6010B and 7471A								
SI07-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI07-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI07-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI07-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI07-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI07-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI07-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI07-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.24	mg/kg		0.020	0.31	
SI07-7.0 5-7 FT	7440-38-2	Arsenic (As)	29.0	mg/kg		1.0	1.6	Y
SI07-7.0 5-7 FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
SI07-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	13	mg/kg		0.25	770	
SI07-7.0 5-7 FT	16065-83-1	Chromium (Cr)	42	mg/kg		0.50	1,500,000	
SI07-7.0 5-7 FT	7439-92-1	Lead (Pb)	1500	mg/kg		0.25	800	Y
SI07-7.0 5-7 FT	7782-49-2	Selenium (Se)	6.8	mg/kg		1.0	5,100	
SI07-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI07-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI07-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI07-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI07-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI07-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI07-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI07-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI07-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI07-9.0 7-9 FT	7440-38-2	Arsenic (As)	2.7	mg/kg		1.0	1.6	Y
SI07-9.0 7-9 FT	7440-39-3	Barium (Ba)	33	mg/kg		0.25	190,000	
SI07-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	770	
SI07-9.0 7-9 FT	16065-83-1	Chromium (Cr)	5.2	mg/kg		0.50	1,500,000	
SI07-9.0 7-9 FT	7439-92-1	Lead (Pb)	15	mg/kg		0.25	800	
SI07-9.0 7-9 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI07-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI08-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI08-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI08-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI08-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI08-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI08-2.0 0-2 FT	11097-69-1	PCB 1254	330	ug/Kg		17	740	
SI08-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI08-2.0 0-2 FT	7439-97-6	Mercury (Hg)	4.6	mg/kg		0.020	0.31	Y
SI08-2.0 0-2 FT	7440-38-2	Arsenic (As)	33	mg/kg		1.0	1.6	Y
SI08-2.0 0-2 FT	7440-39-3	Barium (Ba)	520	mg/kg		0.25	190,000	
SI08-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	13.0	mg/kg		0.25	800	
SI08-2.0 0-2 FT	16065-83-1	Chromium (Cr)	94	mg/kg		0.50	1,500,000	
SI08-2.0 0-2 FT	7439-92-1	Lead (Pb)	3400	mg/kg		0.25	800	Y

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI08-2.0 0-2 FT	7782-49-2	Selenium (Se)	5.0	mg/kg		1.0	5,100	
SI08-2.0 0-2 FT	7440-22-4	Silver (Ag)	2.0	mg/kg		0.50	5,100	
Metals Via USA EPA Method 6010B and 7471A								
SI08-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.021	mg/kg		0.020	0.31	
SI08-7.0 5-7 FT	7440-38-2	Arsenic (As)	6.7	mg/kg		1.0	1.6	Y
SI08-7.0 5-7 FT	7440-39-3	Barium (Ba)	300	mg/kg		0.25	190,000	
SI08-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	800	
SI08-7.0 5-7 FT	16065-83-1	Chromium (Cr)	50	mg/kg		0.50	1,500,000	
SI08-7.0 5-7 FT	7439-92-1	Lead (Pb)	100	mg/kg		0.25	800	
SI08-7.0 5-7 FT	7782-49-2	Selenium (Se)	1.5	mg/kg		1.0	5,100	
SI08-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI09-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI09-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI09-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI09-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI09-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI09-2.0 0-2 FT	11097-69-1	PCB 1254	48	ug/Kg		17	740	
SI09-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI09-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.34	mg/kg		0.020	0.31	Y
SI09-2.0 0-2 FT	7440-38-2	Arsenic (As)	16.0	mg/kg		1.0	1.6	Y
SI09-2.0 0-2 FT	7440-39-3	Barium (Ba)	320	mg/kg		0.25	190,000	
SI09-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	3.2	mg/kg		0.25	800	
SI09-2.0 0-2 FT	16065-83-1	Chromium (Cr)	14	mg/kg		0.50	1,500,000	
SI09-2.0 0-2 FT	7439-92-1	Lead (Pb)	2500	mg/kg		0.25	800	Y
SI09-2.0 0-2 FT	7782-49-2	Selenium (Se)	4.8	mg/kg		1.0	5,100	
SI09-2.0 0-2 FT	7440-22-4	Silver (Ag)	17	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI09-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI09-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI09-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI09-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI09-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI09-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI09-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI09-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.023	mg/kg		0.020	0.31	
SI09-7.0 5-7 FT	7440-38-2	Arsenic (As)	6.2	mg/kg		1.0	1.6	Y
SI09-7.0 5-7 FT	7440-39-3	Barium (Ba)	140	mg/kg		0.25	190,000	
SI09-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	0.56	mg/kg		0.25	800	
SI09-7.0 5-7 FT	16065-83-1	Chromium (Cr)	12	mg/kg		0.50	1,500,000	
SI09-7.0 5-7 FT	7439-92-1	Lead (Pb)	43	mg/kg		0.25	800	
SI09-7.0 5-7 FT	7782-49-2	Selenium (Se)	2.2	mg/kg		1.0	5,100	
SI09-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Metals Via USA EPA Method 6010B and 7471A								
SI09-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI09-9.0 7-9 FT	7440-38-2	Arsenic (As)	15.0	mg/kg		1.0	1.6	Y
SI09-9.0 7-9 FT	7440-39-3	Barium (Ba)	62	mg/kg		0.25	190,000	
SI09-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	5.4	mg/kg		0.25	800	
SI09-9.0 7-9 FT	16065-83-1	Chromium (Cr)	13	mg/kg		0.50	1,500,000	
SI09-9.0 7-9 FT	7439-92-1	Lead (Pb)	90	mg/kg		0.25	800	
SI09-9.0 7-9 FT	7782-49-2	Selenium (Se)	4.4	mg/kg		1.0	5,100	

Speken Metal Soil Analytical Results
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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI09-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI10-2.0 0-2 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI10-2.0 0-2 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI10-2.0 0-2 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI10-2.0 0-2 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI10-2.0 0-2 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI10-2.0 0-2 FT	11097-69-1	PCB 1254	170	ug/Kg		17	740	
SI10-2.0 0-2 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI010-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.26	mg/kg		0.020	0.31	
SI010-2.0 0-2 FT	7440-38-2	Arsenic (As)	6.5	mg/kg		1.0	1.6	Y
SI010-2.0 0-2 FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
SI010-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	3.3	mg/kg		0.25	800	
SI010-2.0 0-2 FT	16065-83-1	Chromium (Cr)	13	mg/kg		0.50	1,500,000	
SI010-2.0 0-2 FT	7439-92-1	Lead (Pb)	210	mg/kg		0.25	800	
SI010-2.0 0-2 FT	7782-49-2	Selenium (Se)	1.6	mg/kg		1.0	5,100	
SI010-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI10-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI10-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI10-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI10-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI10-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI10-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI10-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI010-7.0 5-7 FT	7439-97-6	Mercury (Hg)	0.022	mg/kg		0.020	0.31	
SI010-7.0 5-7 FT	7440-38-2	Arsenic (As)	6.1	mg/kg		1.0	1.6	Y
SI010-7.0 5-7 FT	7440-39-3	Barium (Ba)	2000	mg/kg		0.25	190,000	
SI010-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	0.35	mg/kg		0.25	800	
SI010-7.0 5-7 FT	16065-83-1	Chromium (Cr)	11	mg/kg		0.50	1,500,000	
SI010-7.0 5-7 FT	7439-92-1	Lead (Pb)	87	mg/kg		0.25	800	
SI010-7.0 5-7 FT	7782-49-2	Selenium (Se)	1.1	mg/kg		1.0	5,100	
SI010-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI10-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI10-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI10-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI10-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI10-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI10-9.0 7-9 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI10-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI010-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI010-9.0 7-9 FT	7440-38-2	Arsenic (As)	5.7	mg/kg		1.0	1.6	Y
SI010-9.0 7-9 FT	7440-39-3	Barium (Ba)	380	mg/kg		0.25	190,000	
SI010-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	800	
SI010-9.0 7-9 FT	16065-83-1	Chromium (Cr)	14	mg/kg		0.50	1,500,000	
SI010-9.0 7-9 FT	7439-92-1	Lead (Pb)	68	mg/kg		0.25	800	
SI010-9.0 7-9 FT	7782-49-2	Selenium (Se)	1.1	mg/kg		1.0	5,100	
SI010-9.0 7-9 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SI11-2.0 0-2 FT	12674-11-2	PCB 1016	ND	mg/kg		0.017	21	
SI11-2.0 0-2 FT	11104-28-2	PCB 1221	ND	mg/kg		0.017	0.54	
SI11-2.0 0-2 FT	11141-16-5	PCB 1232	ND	mg/kg		0.017	0.54	
SI11-2.0 0-2 FT	53469-21-9	PCB 1242	ND	mg/kg		0.017	0.74	
SI11-2.0 0-2 FT	12672-29-6	PCB 1248	ND	mg/kg		0.017	0.74	
SI11-2.0 0-2 FT	11097-69-1	PCB 1254	0.14	mg/kg		0.017	0.74	
SI11-2.0 0-2 FT	11096-82-5	PCB 1260	ND	mg/kg		0.017	0.74	
Metals Via USA EPA Method 6010B and 7471A								
SI011-2.0 0-2 FT	7439-97-6	Mercury (Hg)	0.038	mg/kg		0.020	0.31	
SI011-2.0 0-2 FT	7440-38-2	Arsenic (As)	12.0	mg/kg		1.0	1.6	Y
SI011-2.0 0-2 FT	7440-39-3	Barium (Ba)	270	mg/kg		0.25	190,000	
SI011-2.0 0-2 FT	7440-43-9	Cadmium (Cd)	1.3	mg/kg		0.25	800	
SI011-2.0 0-2 FT	16065-83-1	Chromium (Cr)	39	mg/kg		0.50	1,500,000	
SI011-2.0 0-2 FT	7439-92-1	Lead (Pb)	400	mg/kg		0.25	800	
SI011-2.0 0-2 FT	7782-49-2	Selenium (Se)	2.4	mg/kg		1.0	5,100	
SI011-2.0 0-2 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI11-7.0 5-7 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI11-7.0 5-7 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI11-7.0 5-7 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI11-7.0 5-7 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI11-7.0 5-7 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI11-7.0 5-7 FT	11097-69-1	PCB 1254	ND	ug/Kg		17	740	
SI11-7.0 5-7 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI011-7.0 5-7 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI011-7.0 5-7 FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
SI011-7.0 5-7 FT	7440-39-3	Barium (Ba)	43	mg/kg		0.25	190,000	
SI011-7.0 5-7 FT	7440-43-9	Cadmium (Cd)	2.5	mg/kg		0.25	800	
SI011-7.0 5-7 FT	16065-83-1	Chromium (Cr)	15	mg/kg		0.50	1,500,000	
SI011-7.0 5-7 FT	7439-92-1	Lead (Pb)	15	mg/kg		0.25	800	
SI011-7.0 5-7 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
SI011-7.0 5-7 FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SI11-9.0 7-9 FT	12674-11-2	PCB 1016	ND	ug/Kg		17	21,000	
SI11-9.0 7-9 FT	11104-28-2	PCB 1221	ND	ug/Kg		17	540	
SI11-9.0 7-9 FT	11141-16-5	PCB 1232	ND	ug/Kg		17	540	
SI11-9.0 7-9 FT	53469-21-9	PCB 1242	ND	ug/Kg		17	740	
SI11-9.0 7-9 FT	12672-29-6	PCB 1248	ND	ug/Kg		17	740	
SI11-9.0 7-9 FT	11097-69-1	PCB 1254	24	ug/Kg		17	740	
SI11-9.0 7-9 FT	11096-82-5	PCB 1260	ND	ug/Kg		17	740	
Metals Via USA EPA Method 6010B and 7471A								
SI011-9.0 7-9 FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
SI011-9.0 7-9 FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
SI011-9.0 7-9 FT	7440-39-3	Barium (Ba)	97	mg/kg		0.25	190,000	
SI011-9.0 7-9 FT	7440-43-9	Cadmium (Cd)	0.52	mg/kg		0.25	800	
SI011-9.0 7-9 FT	16065-83-1	Chromium (Cr)	6.9	mg/kg		0.50	1,500,000	
SI011-9.0 7-9 FT	7439-92-1	Lead (Pb)	47	mg/kg		0.25	800	
SI011-9.0 7-9 FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
Metals Via USA EPA Method 6010B and 7471A								
SPKN1(1-2)	7440-38-2	Arsenic	11	mg/Kg		1.9	1.6	Y
SPKN1(1-2)	7440-39-3	Barium	190	mg/Kg		0.94	190,000	
SPKN1(1-2)	7440-43-9	Cadmium	2.4	mg/Kg		0.47	800	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN1(1-2)	7440-47-3	Chromium	16	mg/Kg		1.4	1,500,000	
SPKN1(1-2)	7439-92-1	Lead	220	mg/Kg		0.75	800	
SPKN1(1-2)	7439-92-1	Lead (TCLP)	0.69	mg/L		0.5	5	
SPKN1(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN1(1-2)	7440-22-4	Silver	0.48	mg/Kg	J	0.94	5,100	
SPKN1(1-2)	7439-97-6	Mercury	160	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN2(1-2)	7440-38-2	Arsenic	12	mg/Kg		1.9	1.6	Y
SPKN2(1-2)	7440-39-3	Barium	180	mg/Kg		0.97	190,000	
SPKN2(1-2)	7440-43-9	Cadmium	1.9	mg/Kg		0.49	800	
SPKN2(1-2)	7440-47-3	Chromium	14	mg/Kg		1.5	1,500,000	
SPKN2(1-2)	7439-92-1	Lead	150	mg/Kg		0.78	800	
SPKN2(1-2)	7439-92-1	Lead (TCLP)	0.36	mg/L	J	0.5	5	
SPKN2(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.3	5100	
SPKN2(1-2)	7440-22-4	Silver	0.29	mg/Kg	J	0.97	5,100	
SPKN2(1-2)	7439-97-6	Mercury	150	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN3(1-2)	7440-38-2	Arsenic	28	mg/Kg		1.7	1.6	Y
SPKN3(1-2)	7440-39-3	Barium	580	mg/Kg		0.85	190,000	
SPKN3(1-2)	7440-43-9	Cadmium	4.4	mg/Kg		0.42	800	
SPKN3(1-2)	7440-47-3	Chromium	12	mg/Kg		1.3	1,500,000	
SPKN3(1-2)	7439-92-1	Lead	420	mg/Kg		0.68	800	
SPKN3(1-2)	7439-92-1	Lead (TCLP)	0.64	mg/L		0.5	5	
SPKN3(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.1	5100	
SPKN3(1-2)	7440-22-4	Silver	1.5	mg/Kg		0.85	5,100	
SPKN3(1-2)	7439-97-6	Mercury	220	ug/Kg		16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN3(1-2)		Polychlorinated biphenyls, Total	37	ug/Kg		33	37,000	
SPKN3(1-2)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN3(1-2)	11104-28-2	PCB-1221	ND	ug/Kg		47	540	
SPKN3(1-2)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN3(1-2)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN3(1-2)	12672-29-6	PCB-1248	ND	ug/Kg		33	740	
SPKN3(1-2)	11097-69-1	PCB-1254	37	ug/Kg		33	740	
SPKN3(1-2)	11096-82-5	PCB-1260	ND	ug/Kg		33	740	
SPKN3(1-2)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN3(1-2)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
SPKN3(1-2)	90-12-0	1-Methylnaphthalene	60000	ng/Kg		5000	530,000,000	
SPKN3(1-2)	91-57-6	2-Methylnaphthalene	56000	ng/Kg		5000	2,200,000,000	
SPKN3(1-2)	83-32-9	Acenaphthene	22000	ng/Kg		5000	33,000,000,000	
SPKN3(1-2)	208-96-8	Acenaphthylene	17000	ng/Kg		5000	no value	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN3(1-2)	120-12-7	Anthracene	55000	ng/Kg		5000	170,000,000,000	
SPKN3(1-2)	56-55-3	Benzo[a]anthracene	130000	ng/Kg		5000	2,100,000	
SPKN3(1-2)	50-32-8	Benzo[a]pyrene	98000	ng/Kg		5000	210,000	
SPKN3(1-2)	205-99-2	Benzo[g,h,i]perylene	70000	ng/Kg		5000	1,300,000	
SPKN3(1-2)	191-24-2	Benzo[k]fluoranthene	59000	ng/Kg		5000	no value	
SPKN3(1-2)	207-08-9	Dibenz(a,h)anthracene	20000	ng/Kg		5000	21,000,000	
SPKN3(1-2)	218-01-9	Fluorene	18000	ng/Kg		5000	210,000,000	
SPKN3(1-2)	53-70-3	Indeno[1,2,3-cd]pyrene	76000	ng/Kg		5000	210,000	
SPKN3(1-2)	206-44-0	Naphthalene	41000	ng/Kg		5000	22,000,000,000	
SPKN3(1-2)	86-73-7	Benzo[b]fluoranthene	180000	ng/Kg		20000	22,000,000,000	
SPKN3(1-2)	193-39-5	Chrysene	170000	ng/Kg		20000	21,000,000	
SPKN3(1-2)	91-20-3	Fluoranthene	300000	ng/Kg		20000	18,000,000	
SPKN3(1-2)	85-01-8	Phenanthrene	290000	ng/Kg		20000	no value	
SPKN3(1-2)	129-00-0	Pyrene	250000	ng/Kg		20000	17,000,000,000	
Metals Via USA EPA Method 6010B and 7471A								
SPKN4(1-2)	7440-38-2	Arsenic	13	mg/Kg		2	1.6	Y
SPKN4(1-2)	7440-39-3	Barium	380	mg/Kg		0.99	190,000	
SPKN4(1-2)	7440-43-9	Cadmium	2.8	mg/Kg		0.5	800	
SPKN4(1-2)	7440-47-3	Chromium	14	mg/Kg		1.5	1,500,000	
SPKN4(1-2)	7439-92-1	Lead	350	mg/Kg		0.79	800	
SPKN4(1-2)	7439-92-1	Lead (TCLP)	0.018	mg/L	J	0.5	5	
SPKN4(1-2)	7440-22-4	Silver	0.55	mg/Kg	J	0.99	5100	
SPKN4(1-2)	7439-97-6	Mercury	110	ug/Kg		19	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN4(1-2)D	7440-38-2	Arsenic	11	mg/Kg		1.9	1.6	Y
SPKN4(1-2)D	7440-39-3	Barium	870	mg/Kg		0.97	190,000	
SPKN4(1-2)D	7440-43-9	Cadmium	2.4	mg/Kg		0.49	800	
SPKN4(1-2)D	7440-47-3	Chromium	14	mg/Kg		1.5	1,500,000	
SPKN4(1-2)D	7439-92-1	Lead	220	mg/Kg		0.78	800	
SPKN4(1-2)D	7782-49-2	Selenium	ND	mg/Kg		1.3	5,100	
SPKN4(1-2)D	7440-22-4	Silver	0.57	mg/Kg	J	0.97	5,100	
SPKN4(1-2)D	7439-97-6	Mercury	83	ug/Kg		19	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN4(4-6)	7440-38-2	Arsenic	4.2	mg/Kg		1.9	1.6	
SPKN4(4-6)	7440-39-3	Barium	170	mg/Kg		0.94	190,000	
SPKN4(4-6)	7440-43-9	Cadmium	0.44	mg/Kg	J	0.47	800	
SPKN4(4-6)	7440-47-3	Chromium	16	mg/Kg		1.4	1,500,000	
SPKN4(4-6)	7439-92-1	Lead	13	mg/Kg		0.75	800	
SPKN4(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN4(4-6)	7440-22-4	Silver	ND	mg/Kg		0.94	5,100	
SPKN4(4-6)	7439-97-6	Mercury	110	ug/Kg		17	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN4(4-6)		Polychlorinated biphenyls, Total	64	ug/Kg		33	37,000	
SPKN4(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN4(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		47	540	
SPKN4(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN4(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN4(4-6)	12672-29-6	PCB-1248	64	ug/Kg		33	740	
SPKN4(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		33	740	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN4(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		33	740	
SPKN4(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN4(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Metals Via USA EPA Method 6010B and 7471A								
SPKN4(8-10)	7440-38-2	Arsenic	1.8	mg/Kg		1.8	1.6	Y
SPKN4(8-10)	7440-39-3	Barium	57	mg/Kg		0.92	160,000	
SPKN4(8-10)	7440-43-9	Cadmium	0.08	mg/Kg	J	0.46	770	
SPKN4(8-10)	7440-47-3	Chromium	19	mg/Kg		1.4	1,500,000	
SPKN4(8-10)	7439-92-1	Lead	5.1	mg/Kg		0.73	800	
SPKN4(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN4(8-10)	7440-22-4	Silver	ND	mg/Kg		0.92	5,100	
SPKN4(8-10)	7439-97-6	Mercury	ND	ug/Kg		18	300	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN4(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN4(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN4(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		45	540	
SPKN4(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN4(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN4(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN4(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN4(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN4(8-10)	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN4(8-10)	11100-14-4	PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN5(1-2)	7440-38-2	Arsenic	14	mg/Kg		2	1.6	Y
SPKN5(1-2)	7440-39-3	Barium	360	mg/Kg	B	0.98	190,000	
SPKN5(1-2)	7440-43-9	Cadmium	2.7	mg/Kg		0.49	800	
SPKN5(1-2)	7440-47-3	Chromium	23	mg/Kg	B	1.5	1,500,000	
SPKN5(1-2)	7439-92-1	Lead	320	mg/Kg		0.78	800	
SPKN5(1-2)	7439-92-1	Lead (TCLP)	0.52	mg/L		0.5	5	
SPKN5(1-2)	7782-49-2	Selenium	1.5	mg/Kg		1.3	5100	
SPKN5(1-2)	7440-22-4	Silver	0.73	mg/Kg	J	0.98	5,100	
SPKN5(1-2)	7439-97-6	Mercury	80	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN5(4-6)	7440-38-2	Arsenic	3.7	mg/Kg		1.9	1.6	
SPKN5(4-6)	7440-39-3	Barium	110	mg/Kg	B	0.94	190,000	
SPKN5(4-6)	7440-43-9	Cadmium	0.24	mg/Kg	J	0.47	800	
SPKN5(4-6)	7440-47-3	Chromium	9.7	mg/Kg	B	1.4	1,500,000	
SPKN5(4-6)	7439-92-1	Lead	8.1	mg/Kg		0.75	800	
SPKN5(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN5(4-6)	7440-22-4	Silver	ND	mg/Kg		0.94	5,100	
SPKN5(4-6)	7439-97-6	Mercury	15	ug/Kg		15	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN5(4-6)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN5(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN5(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN5(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN5(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN5(4-6)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN5(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN5(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN5(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN5(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN5(8-10)	7440-38-2	Arsenic	2.1	mg/Kg		1.9	1.6	Y
SPKN5(8-10)	7440-39-3	Barium	72	mg/Kg	B	0.95	190,000	
SPKN5(8-10)	7440-43-9	Cadmium	0.066	mg/Kg	J	0.48	800	
SPKN5(8-10)	7440-47-3	Chromium	6.1	mg/Kg	B	1.4	1,500,000	
SPKN5(8-10)	7439-92-1	Lead	5.6	mg/Kg		0.76	800	
SPKN5(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN5(8-10)	7440-22-4	Silver	ND	mg/Kg		0.95	5,100	
SPKN5(8-10)	7439-97-6	Mercury	ND	ug/Kg		16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN5(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		33	37,000	
SPKN5(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN5(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN5(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN5(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN5(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		33	740	
SPKN5(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		33	740	
SPKN5(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		33	740	
SPKN5(8-10)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN5(8-10)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Metals Via USA EPA Method 6010B and 7471A								
SPKN6(1-2)	**TCLP**	**Lead**	0.079	mg/L	J	0.5	5.0 mg/L	
SPKN6(1-2)	7440-38-2	Arsenic	4.7	mg/Kg		1.8	1.6	Y
SPKN6(1-2)	7440-39-3	Barium	130	mg/Kg	B	0.91	190,000	
SPKN6(1-2)	7440-43-9	Cadmium	0.98	mg/Kg		0.45	800	
SPKN6(1-2)	7440-47-3	Chromium	11	mg/Kg	B	1.4	1,500,000	
SPKN6(1-2)	7439-92-1	Lead	88	mg/Kg		0.73	800	
SPKN6(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN6(1-2)	7440-22-4	Silver	ND	mg/Kg		0.91	5,100	
SPKN6(1-2)	7439-97-6	Mercury	24	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN7(1-2)	**TCLP**	**Lead**	0.063	mg/L	J	0.5	5.0 mg/L	
SPKN7(1-2)	7440-38-2	Arsenic	3.8	mg/Kg		1.7	1.6	Y
SPKN7(1-2)	7440-39-3	Barium	110	mg/Kg	B	0.85	190,000	
SPKN7(1-2)	7440-43-9	Cadmium	0.51	mg/Kg		0.42	800	
SPKN7(1-2)	7440-47-3	Chromium	8.8	mg/Kg	B	1.3	1,500,000	
SPKN7(1-2)	7439-92-1	Lead	30	mg/Kg		0.68	800	
SPKN7(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.1	5,100	
SPKN7(1-2)	7440-22-4	Silver	ND	mg/Kg		0.85	5,100	
SPKN7(1-2)	7439-97-6	Mercury	10	ug/Kg	J	16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN8(1-2)	**TCLP**	**Lead**	0.014	mg/L	J	0.5	5.0 mg/L	
SPKN8(1-2)	7440-38-2	Arsenic	5.3	mg/Kg		1.9	1.6	Y
SPKN8(1-2)	7440-39-3	Barium	290	mg/Kg	B	0.96	190,000	
SPKN8(1-2)	7440-43-9	Cadmium	1.5	mg/Kg		0.48	800	
SPKN8(1-2)	7440-47-3	Chromium	13	mg/Kg	B	1.4	1,500,000	
SPKN8(1-2)	7439-92-1	Lead	160	mg/Kg		0.77	800	

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SPKN8(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.3	5,100	
SPKN8(1-2)	7440-22-4	Silver	0.15	mg/Kg	J	0.96	5,100	
SPKN8(1-2)	7439-97-6	Mercury	27	ug/Kg		16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN8(1-2)		Polychlorinated biphenyls, Total	ND	ug/Kg		33	37,000	
SPKN8(1-2)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN8(1-2)	11104-28-2	PCB-1221	ND	ug/Kg		47	540	
SPKN8(1-2)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN8(1-2)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN8(1-2)	12672-29-6	PCB-1248	ND	ug/Kg		33	740	
SPKN8(1-2)	11097-69-1	PCB-1254	ND	ug/Kg		33	740	
SPKN8(1-2)	11096-82-5	PCB-1260	ND	ug/Kg		33	740	
SPKN8(1-2)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN8(1-2)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
SPKN8(1-2)	90-12-0	1-Methylnaphthalene	5200	ng/Kg		4900	530,000,000	
SPKN8(1-2)	91-57-6	2-Methylnaphthalene	5900	ng/Kg		4900	2,200,000,000	
SPKN8(1-2)	83-32-9	Acenaphthene	1400	ng/Kg	J	4900	33,000,000,000	
SPKN8(1-2)	208-96-8	Acenaphthylene	2800	ng/Kg	J	4900	no value	
SPKN8(1-2)	120-12-7	Anthracene	3200	ng/Kg	J	4900	170,000,000,000	
SPKN8(1-2)	56-55-3	Benzo[a]anthracene	7100	ng/Kg		4900	2,100,000	
SPKN8(1-2)	50-32-8	Benzo[a]pyrene	6000	ng/Kg		4900	210,000	
SPKN8(1-2)	205-99-2	Benzo[b]fluoranthene	13000	ng/Kg		4900	1,300,000	
SPKN8(1-2)	191-24-2	Benzo[g,h,i]perylene	9500	ng/Kg		4900	no value	
SPKN8(1-2)	207-08-9	Benzo[k]fluoranthene	3200	ng/Kg	J	4900	21,000,000	
SPKN8(1-2)	218-01-9	Chrysene	14000	ng/Kg		4900	210,000,000	
SPKN8(1-2)	53-70-3	Dibenz(a,h)anthracene	1700	ng/Kg	J	4900	210,000	
SPKN8(1-2)	206-44-0	Fluoranthene	18000	ng/Kg		4900	22,000,000,000	
SPKN8(1-2)	86-73-7	Fluorene	860	ng/Kg	J	4900	22,000,000,000	
SPKN8(1-2)	193-39-5	Indeno[1,2,3-cd]pyrene	4800	ng/Kg	J	4900	21,000,000	
SPKN8(1-2)	91-20-3	Naphthalene	7400	ng/Kg		4900	18,000,000	
SPKN8(1-2)	85-01-8	Phenanthrene	15000	ng/Kg		4900	no value	
SPKN8(1-2)	129-00-0	Pyrene	15000	ng/Kg		4900	17,000,000,000	
Metals Via USA EPA Method 6010B and 7471A								
SPKN8(1-2)D	**TCLP**	**Lead**	0.013	mg/L	J	0.5	5.0 mg/L	
SPKN8(1-2)D	7440-38-2	Arsenic	8.9	mg/Kg		1.8	1.6	Y
SPKN8(1-2)D	7440-39-3	Barium	890	mg/Kg	B	0.88	190,000	
SPKN8(1-2)D	7440-43-9	Cadmium	2.1	mg/Kg		0.44	800	
SPKN8(1-2)D	7440-47-3	Chromium	16	mg/Kg	B	1.3	1,500,000	
SPKN8(1-2)D	7439-92-1	Lead	410	mg/Kg		0.71	800	
SPKN8(1-2)D	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN8(1-2)D	7440-22-4	Silver	0.86	mg/Kg	J	0.88	5,100	
SPKN8(1-2)D	7439-97-6	Mercury	46	ug/Kg		15	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN8(1-2)D		Polychlorinated biphenyls, Total	6.2	ug/Kg	J	32	37,000	
SPKN8(1-2)D	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN8(1-2)D	11104-28-2	PCB-1221	ND	ug/Kg		45	540	
SPKN8(1-2)D	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN8(1-2)D	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN8(1-2)D	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN8(1-2)D	11097-69-1	PCB-1254	6.2	ug/Kg	J	32	740	
SPKN8(1-2)D	11096-82-5	PCB-1260	ND	ug/Kg		32	740	

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SPKN8(1-2)D	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN8(1-2)D	11100-14-4	PCB-1268	ND	ug/Kg		32		
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
SPKN8(1-2)D	90-12-0	1-Methylnaphthalene	12000	ng/Kg		4900	530,000,000	
SPKN8(1-2)D	91-57-6	2-Methylnaphthalene	13000	ng/Kg		4900	2,200,000,000	
SPKN8(1-2)D	83-32-9	Acenaphthene	2700	ng/Kg	J	4900	33,000,000,000	
SPKN8(1-2)D	208-96-8	Acenaphthylene	22000	ng/Kg		4900	no value	
SPKN8(1-2)D	120-12-7	Anthracene	6400	ng/Kg		4900	170,000,000,000	
SPKN8(1-2)D	56-55-3	Benzo[a]anthracene	8500	ng/Kg		4900	2,100,000	
SPKN8(1-2)D	50-32-8	Benzo[a]pyrene	4900	ng/Kg		4900	210,000	
SPKN8(1-2)D	205-99-2	Benzo[b]fluoranthene	15000	ng/Kg		4900	1,300,000	
SPKN8(1-2)D	191-24-2	Benzo[g,h,i]perylene	8000	ng/Kg		4900	no value	
SPKN8(1-2)D	207-08-9	Benzo[k]fluoranthene	3700	ng/Kg	J	4900	21,000,000	
SPKN8(1-2)D	218-01-9	Chrysene	17000	ng/Kg		4900	210,000,000	
SPKN8(1-2)D	53-70-3	Dibenz(a,h)anthracene	1700	ng/Kg	J	4900	210,000	
SPKN8(1-2)D	206-44-0	Fluoranthene	28000	ng/Kg		4900	22,000,000,000	
SPKN8(1-2)D	86-73-7	Fluorene	4200	ng/Kg	J	4900	22,000,000,000	
SPKN8(1-2)D	193-39-5	Indeno[1,2,3-cd]pyrene	5400	ng/Kg		4900	21,000,000	
SPKN8(1-2)D	91-20-3	Naphthalene	51000	ng/Kg		4900	18,000,000	
SPKN8(1-2)D	85-01-8	Phenanthrene	25000	ng/Kg		4900	no value	
SPKN8(1-2)D	129-00-0	Pyrene	23000	ng/Kg		4900	17,000,000,000	
Metals Via USA EPA Method 6010B and 7471A								
SPKN9(1-2)	7440-38-2	Arsenic	5.8	mg/Kg		2	1.6	Y
SPKN9(1-2)	7440-39-3	Barium	1200	mg/Kg	B	1	190,000	
SPKN9(1-2)	7440-43-9	Cadmium	1.7	mg/Kg		0.5	800	
SPKN9(1-2)	7440-47-3	Chromium	9.3	mg/Kg	B	1.5	1,500,000	
SPKN9(1-2)	7439-92-1	Lead	85	mg/Kg		0.8	800	
SPKN9(1-2)	7782-49-2	Selenium	1.1	mg/Kg	J	1.3	5,100	
SPKN9(1-2)	7440-22-4	Silver	ND	mg/Kg		1	5,100	
SPKN9(1-2)	7439-97-6	Mercury	53	ug/Kg		18	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN10(1-2)	**TCLP**	**Lead**	0.67	mg/L		0.5	5.0 mg/L	
SPKN10(1-2)	7440-38-2	Arsenic	4.1	mg/Kg		1.8	1.6	Y
SPKN10(1-2)	7440-39-3	Barium	210	mg/Kg	B	0.89	190,000	
SPKN10(1-2)	7440-43-9	Cadmium	3.8	mg/Kg		0.45	800	
SPKN10(1-2)	7440-47-3	Chromium	12	mg/Kg	B	1.3	1,500,000	
SPKN10(1-2)	7439-92-1	Lead	1200	mg/Kg		0.71	800	Y
SPKN10(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN10(1-2)	7440-22-4	Silver	ND	mg/Kg		0.89	5,100	
SPKN10(1-2)	7439-97-6	Mercury	95	ug/Kg		18	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN10(1-2)D	7440-38-2	Arsenic	3.9	mg/Kg		1.8	1.6	Y
SPKN10(1-2)D	7440-39-3	Barium	230	mg/Kg	B	0.88	190,000	
SPKN10(1-2)D	7440-43-9	Cadmium	4.5	mg/Kg		0.44	800	
SPKN10(1-2)D	7440-47-3	Chromium	8.8	mg/Kg	B	1.3	1,500,000	
SPKN10(1-2)D	7439-92-1	Lead	840	mg/Kg		0.71	800	Y
SPKN10(1-2)D	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN10(1-2)D	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
SPKN10(1-2)D	7439-97-6	Mercury	87	ug/Kg		18	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN11(1-2)	7440-38-2	Arsenic	9.1	mg/Kg		1.8	1.6	Y
SPKN11(1-2)	7440-39-3	Barium	210	mg/Kg	B	0.91	190,000	

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SPKN11(1-2)	7440-43-9	Cadmium	4.4	mg/Kg		0.45	800	
SPKN11(1-2)	7440-47-3	Chromium	16	mg/Kg	B	1.4	1,500,000	
SPKN11(1-2)	7439-92-1	Lead	2500	mg/Kg		0.73	800	Y
SPKN11(1-2)	7439-92-1	Lead (TCLP)	0.41	mg/L	J	0.5	5	
SPKN11(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN11(1-2)	7440-22-4	Silver	1	mg/Kg		0.91	5,100	
SPKN11(1-2)	7439-97-6	Mercury	240	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN12(1-2)	7440-38-2	Arsenic	6	mg/Kg		1.9	1.6	Y
SPKN12(1-2)	7440-39-3	Barium	170	mg/Kg	B	0.97	190,000	
SPKN12(1-2)	7440-43-9	Cadmium	1.2	mg/Kg		0.49	800	
SPKN12(1-2)	7440-47-3	Chromium	13	mg/Kg	B	1.5	1,500,000	
SPKN12(1-2)	7439-92-1	Lead	80	mg/Kg		0.78	800	
SPKN12(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.3	5,100	
SPKN12(1-2)	7440-22-4	Silver	ND	mg/Kg		0.97	5,100	
SPKN12(1-2)	7439-97-6	Mercury	310	ug/Kg		19	310	Y
Metals Via USA EPA Method 6010B and 7471A								
SPKN13(1-2)	**TCLP**	**Lead**	0.041	mg/L	J	0.5	5.0 mg/L	
SPKN13(1-2)	7440-38-2	Arsenic	5.5	mg/Kg		1.8	1.6	Y
SPKN13(1-2)	7440-39-3	Barium	110	mg/Kg	B	0.9	190,000	
SPKN13(1-2)	7440-43-9	Cadmium	1.4	mg/Kg		0.45	800	
SPKN13(1-2)	7440-47-3	Chromium	11	mg/Kg	B	1.4	1,500,000	
SPKN13(1-2)	7439-92-1	Lead	54	mg/Kg		0.72	800	
SPKN13(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN13(1-2)	7440-22-4	Silver	ND	mg/Kg		0.9	5,100	
SPKN13(1-2)	7439-97-6	Mercury	74	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN14(1-2)	7440-38-2	Arsenic	11	mg/Kg		1.9	1.6	Y
SPKN14(1-2)	7440-39-3	Barium	170	mg/Kg	B	0.97	190,000	
SPKN14(1-2)	7440-43-9	Cadmium	3.9	mg/Kg		0.49	800	
SPKN14(1-2)	7440-47-3	Chromium	11	mg/Kg	B	1.5	1,500,000	
SPKN14(1-2)	7439-92-1	Lead	310	mg/Kg		0.78	800	
SPKN14(1-2)	7439-92-1	Lead (TCLP)	3.6	mg/L		0.5	5	
SPKN14(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.3	5100	
SPKN14(1-2)	7440-22-4	Silver	0.91	mg/Kg	J	0.97	5,100	
SPKN14(1-2)	7439-97-6	Mercury	100	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN14(1-2)D	7440-38-2	Arsenic	16	mg/Kg		1.8	1.6	Y
SPKN14(1-2)D	7440-39-3	Barium	190	mg/Kg	B	0.91	190,000	
SPKN14(1-2)D	7440-43-9	Cadmium	2.7	mg/Kg		0.45	800	
SPKN14(1-2)D	7440-47-3	Chromium	13	mg/Kg	B	1.4	1500000	
SPKN14(1-2)D	7439-92-1	Lead	320	mg/Kg		0.73	800	
SPKN14(1-2)D	7439-92-1	Lead (TCLP)	0.14	mg/L	J	0.5	5	
SPKN14(1-2)D	7782-49-2	Selenium	ND	mg/Kg		1.2	5100	
SPKN14(1-2)D	7440-22-4	Silver	0.63	mg/Kg	J	0.91	5100	
SPKN14(1-2)D	7439-97-6	Mercury	210	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN15(1-2)	7440-38-2	Arsenic	7.6	mg/Kg		1.8	1.6	Y
SPKN15(1-2)	7440-39-3	Barium	190	mg/Kg	B	0.92	190,000	
SPKN15(1-2)	7440-43-9	Cadmium	1.7	mg/Kg		0.46	800	
SPKN15(1-2)	7440-47-3	Chromium	16	mg/Kg	B	1.4	1,500,000	
SPKN15(1-2)	7439-92-1	Lead	220	mg/Kg		0.73	800	

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SPKN15(1-2)	7439-92-1	Lead (TCLP)	0.39	mg/L	J	0.5	5	
SPKN15(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN15(1-2)	7440-22-4	Silver	0.25	mg/Kg	J	0.92	5,100	
SPKN15(1-2)	7439-97-6	Mercury	70	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN15(4-6)	**TCLP**	**Lead**	0.35	mg/L	J	0.5	5.0 mg/L	
SPKN15(4-6)	7440-38-2	Arsenic	4.4	mg/Kg		2	1.6	Y
SPKN15(4-6)	7440-39-3	Barium	94	mg/Kg	B	0.99	190,000	
SPKN15(4-6)	7440-43-9	Cadmium	0.42	mg/Kg	J	0.5	800	
SPKN15(4-6)	7440-47-3	Chromium	9.5	mg/Kg	B	1.5	1,500,000	
SPKN15(4-6)	7439-92-1	Lead	22	mg/Kg		0.79	800	
SPKN15(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.3	5,100	
SPKN15(4-6)	7440-22-4	Silver	ND	mg/Kg		0.99	5,100	
SPKN15(4-6)	7439-97-6	Mercury	24	ug/Kg		17	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN15(4-6)		Polychlorinated biphenyls, Total	ND	ug/Kg		31	37,000	
SPKN15(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		31	21,000	
SPKN15(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		44	540	
SPKN15(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		31	540	
SPKN15(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		31	740	
SPKN15(4-6)	12672-29-6	PCB-1248	ND	ug/Kg		31	740	
SPKN15(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		31	740	
SPKN15(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		31	740	
SPKN15(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		31		
SPKN15(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		31		
Metals Via USA EPA Method 6010B and 7471A								
SPKN15(8-10)	7440-38-2	Arsenic	1.2	mg/Kg	J	1.8	1.6	
SPKN15(8-10)	7440-39-3	Barium	45	mg/Kg	B	0.88	190,000	
SPKN15(8-10)	7440-43-9	Cadmium	0.16	mg/Kg	J	0.44	800	
SPKN15(8-10)	7440-47-3	Chromium	5	mg/Kg	B	1.3	1,500,000	
SPKN15(8-10)	7439-92-1	Lead	9.6	mg/Kg		0.7	800	
SPKN15(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.1	5,100	
SPKN15(8-10)	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
SPKN15(8-10)	7439-97-6	Mercury	ND	ug/Kg		16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN15(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		31	37,000	
SPKN15(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		31	21,000	
SPKN15(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		45	540	
SPKN15(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		31	540	
SPKN15(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		31	740	
SPKN15(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		31	740	
SPKN15(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		31	740	
SPKN15(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		31	740	
SPKN15(8-10)	37324-23-5	PCB-1262	ND	ug/Kg		31		
SPKN15(8-10)	11100-14-4	PCB-1268	ND	ug/Kg		31		
Metals Via USA EPA Method 6010B and 7471A								
SPKN16(1-2)	**TCLP**	**Lead**	2.6	mg/L		0.5	5.0 mg/L	
SPKN16(1-2)	7440-38-2	Arsenic	11	mg/Kg		1.8	1.6	Y
SPKN16(1-2)	7440-39-3	Barium	170	mg/Kg	B	0.92	190,000	
SPKN16(1-2)	7440-43-9	Cadmium	1.7	mg/Kg		0.46	800	
SPKN16(1-2)	7440-47-3	Chromium	16	mg/Kg	B	1.4	1,500,000	
SPKN16(1-2)	7439-92-1	Lead	270	mg/Kg		0.73	800	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN16(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN16(1-2)	7440-22-4	Silver	0.47	mg/Kg	J	0.92	5,100	
SPKN16(1-2)	7439-97-6	Mercury	57	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN16(4-6)	7440-38-2	Arsenic	2.9	mg/Kg		1.9	1.6	Y
SPKN16(4-6)	7440-39-3	Barium	65	mg/Kg	B	0.93	190,000	
SPKN16(4-6)	7440-43-9	Cadmium	0.33	mg/Kg	J	0.47	800	
SPKN16(4-6)	7440-47-3	Chromium	4.8	mg/Kg	B	1.4	1,500,000	
SPKN16(4-6)	7439-92-1	Lead	14	mg/Kg		0.75	800	
SPKN16(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN16(4-6)	7440-22-4	Silver	ND	mg/Kg		0.93	5,100	
SPKN16(4-6)	7439-97-6	Mercury	ND	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN16(4-6)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN16(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN16(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN16(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN16(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN16(4-6)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN16(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN16(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN16(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN16(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN16(8-10)	7440-38-2	Arsenic	3.8	mg/Kg		1.9	1.6	Y
SPKN16(8-10)	7440-39-3	Barium	88	mg/Kg	B	0.95	190,000	
SPKN16(8-10)	7440-43-9	Cadmium	0.72	mg/Kg		0.48	800	
SPKN16(8-10)	7440-47-3	Chromium	8.2	mg/Kg	B	1.4	1,500,000	
SPKN16(8-10)	7439-92-1	Lead	32	mg/Kg		0.76	800	
SPKN16(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN16(8-10)	7440-22-4	Silver	ND	mg/Kg		0.95	5,100	
SPKN16(8-10)	7439-97-6	Mercury	9.9	ug/Kg	J	15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN16(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN16(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN16(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN16(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN16(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN16(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN16(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN16(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN16(8-10)		PCB-1262	ND	ug/Kg		32		
SPKN16(8-10)		PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN17(1-2)	7440-38-2	Arsenic	5.2	mg/Kg		1.9	1.6	Y
SPKN17(1-2)	7440-39-3	Barium	110	mg/Kg	B	0.97	190,000	
SPKN17(1-2)	7440-43-9	Cadmium	0.71	mg/Kg		0.49	800	
SPKN17(1-2)	7440-47-3	Chromium	16	mg/Kg	B	1.5	1,500,000	
SPKN17(1-2)	7439-92-1	Lead	72	mg/Kg		0.78	800	
SPKN17(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.3	5,100	
SPKN17(1-2)	7440-22-4	Silver	ND	mg/Kg		0.97	5,100	
SPKN17(1-2)	7439-97-6	Mercury	64	ug/Kg		18	310	

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Metals Via USA EPA Method 6010B and 7471A								
SPKN18(1-2)	7440-38-2	Arsenic	7	mg/Kg		1.7	1.6	Y
SPKN18(1-2)	7440-39-3	Barium	240	mg/Kg	B	0.85	190,000	
SPKN18(1-2)	7440-43-9	Cadmium	4.6	mg/Kg		0.43	800	
SPKN18(1-2)	7440-47-3	Chromium	62	mg/Kg	B	1.3	1,500,000	
SPKN18(1-2)	7439-92-1	Lead	910	mg/Kg		0.68	800	Y
SPKN18(1-2)	7439-92-1	Lead (TCLP)	1.2	mg/L		0.5	5	
SPKN18(1-2)	7782-49-2	Selenium	0.78	mg/Kg	J	1.1	5,100	
SPKN18(1-2)	7440-22-4	Silver	1.9	mg/Kg		0.85	5,100	
SPKN18(1-2)	7439-97-6	Mercury	250	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN19(1-2)	7440-38-2	Arsenic	9.8	mg/Kg		2	1.6	Y
SPKN19(1-2)	7440-39-3	Barium	330	mg/Kg	B	1	190,000	
SPKN19(1-2)	7440-43-9	Cadmium	7.8	mg/Kg		0.5	800	
SPKN19(1-2)	7440-47-3	Chromium	56	mg/Kg	B	1.5	1,500,000	
SPKN19(1-2)	7439-92-1	Lead	1600	mg/Kg		0.8	800	Y
SPKN19(1-2)	7439-92-1	Lead (TCLP)	1.4	mg/L		0.5	5	
SPKN19(1-2)	7782-49-2	Selenium	1.2	mg/Kg	J	1.3	5100	
SPKN19(1-2)	7440-22-4	Silver	1.3	mg/Kg		1	5,100	
SPKN19(1-2)	7439-97-6	Mercury	1500	ug/Kg		88	310	Y
Metals Via USA EPA Method 6010B and 7471A								
SPKN20(1-2)	**TCLP**	**Lead**	0.05	mg/L	J	0.5	5.0 mg/L	
SPKN20(1-2)	7440-38-2	Arsenic	7.4	mg/Kg		1.8	1.6	Y
SPKN20(1-2)	7440-39-3	Barium	260	mg/Kg	B	0.91	190,000	
SPKN20(1-2)	7440-43-9	Cadmium	0.92	mg/Kg		0.45	800	
SPKN20(1-2)	7440-47-3	Chromium	150	mg/Kg	B	1.4	1,500,000	
SPKN20(1-2)	7439-92-1	Lead	140	mg/Kg		0.73	800	
SPKN20(1-2)	7782-49-2	Selenium	1.3	mg/Kg		1.2	5,100	
SPKN20(1-2)	7440-22-4	Silver	0.48	mg/Kg	J	0.91	5,100	
SPKN20(1-2)	7439-97-6	Mercury	240	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN21(1-2)	7440-38-2	Arsenic	6.2	mg/Kg		1.7	1.6	Y
SPKN21(1-2)	7440-39-3	Barium	150	mg/Kg	B	0.86	190,000	
SPKN21(1-2)	7440-43-9	Cadmium	4.5	mg/Kg		0.43	800	
SPKN21(1-2)	7440-47-3	Chromium	170	mg/Kg	B	1.3	1,500,000	
SPKN21(1-2)	7439-92-1	Lead	720	mg/Kg		0.69	800	Y
SPKN21(1-2)	7782-49-2	Selenium	0.8	mg/Kg	J	1.1	5,100	
SPKN21(1-2)	7440-22-4	Silver	1.7	mg/Kg		0.86	5,100	
SPKN21(1-2)	7439-97-6	Mercury	1300	ug/Kg		89	310	Y
Metals Via USA EPA Method 6010B and 7471A								
SPKN22(1-2)	**TCLP**	**Lead**	0.047	mg/L	J	0.5	5.0 mg/L	
SPKN22(1-2)	7440-38-2	Arsenic	8	mg/Kg		1.8	1.6	Y
SPKN22(1-2)	7440-39-3	Barium	430	mg/Kg	B	0.88	190,000	
SPKN22(1-2)	7440-43-9	Cadmium	1.6	mg/Kg		0.44	800	
SPKN22(1-2)	7440-47-3	Chromium	24	mg/Kg	B	1.3	1,500,000	
SPKN22(1-2)	7439-92-1	Lead	380	mg/Kg		0.7	800	
SPKN21(1-2)	7439-92-1	Lead (TCLP)	0.11	mg/L	J	0.5	5	
SPKN22(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.1	5100	
SPKN22(1-2)	7440-22-4	Silver	0.37	mg/Kg	J	0.88	5,100	
SPKN22(1-2)	7439-97-6	Mercury	98	ug/Kg		18	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN22(1-2)		Polychlorinated biphenyls, Total	44	ug/Kg		33	37,000	

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SPKN22(1-2)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN22(1-2)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN22(1-2)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN22(1-2)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN22(1-2)	12672-29-6	PCB-1248	ND	ug/Kg		33	740	
SPKN22(1-2)	11097-69-1	PCB-1254	33	ug/Kg		33	740	
SPKN22(1-2)	11096-82-5	PCB-1260	11	ug/Kg	J	33	740	
SPKN22(1-2)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN22(1-2)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C SIM								
SPKN22(1-2)	90-12-0	1-Methylnaphthalene	78000	ng/Kg		4900	530,000,000	
SPKN22(1-2)	91-57-6	2-Methylnaphthalene	69000	ng/Kg		4900	2,200,000,000	
SPKN22(1-2)	83-32-9	Acenaphthene	3900	ng/Kg	J	4900	33,000,000,000	
SPKN22(1-2)	208-96-8	Acenaphthylene	45000	ng/Kg		4900	no value	
SPKN22(1-2)	120-12-7	Anthracene	23000	ng/Kg		4900	170,000,000,000	
SPKN22(1-2)	56-55-3	Benzo[a]anthracene	20000	ng/Kg		4900	2,100,000	
SPKN22(1-2)	50-32-8	Benzo[a]pyrene	9300	ng/Kg		4900	210,000	
SPKN22(1-2)	205-99-2	Benzo[b]fluoranthene	36000	ng/Kg		4900	1,300,000	
SPKN22(1-2)	191-24-2	Benzo[g,h,i]perylene	8100	ng/Kg		4900	no value	
SPKN22(1-2)	207-08-9	Benzo[k]fluoranthene	7200	ng/Kg		4900	21,000,000	
SPKN22(1-2)	218-01-9	Chrysene	35000	ng/Kg		4900	210,000,000	
SPKN22(1-2)	53-70-3	Dibenz(a,h)anthracene	2500	ng/Kg	J	4900	210,000	
SPKN22(1-2)	206-44-0	Fluoranthene	72000	ng/Kg		4900	22,000,000,000	
SPKN22(1-2)	86-73-7	Fluorene	12000	ng/Kg		4900	22,000,000,000	
SPKN22(1-2)	193-39-5	Indeno[1,2,3-cd]pyrene	10000	ng/Kg		4900	21,000,000	
SPKN22(1-2)	91-20-3	Naphthalene	110000	ng/Kg		4900	18,000,000	
SPKN22(1-2)	85-01-8	Phenanthrene	85000	ng/Kg		4900	no value	
SPKN22(1-2)	129-00-0	Pyrene	57000	ng/Kg		4900	17,000,000,000	
Metals Via USA EPA Method 6010B and 7471A								
SPKN23(1-2)	7440-38-2	Arsenic	7.9	mg/Kg		1.9	1.6	Y
SPKN23(1-2)	7440-39-3	Barium	300	mg/Kg	B	0.94	190,000	
SPKN23(1-2)	7440-43-9	Cadmium	1.8	mg/Kg		0.47	800	
SPKN23(1-2)	7440-47-3	Chromium	14	mg/Kg	B	1.4	1,500,000	
SPKN23(1-2)	7439-92-1	Lead	340	mg/Kg		0.75	800	
SPKN23(1-2)	7439-92-1	Lead (TCLP)	1.1	mg/L		0.5	5	
SPKN23(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN23(1-2)	7440-22-4	Silver	0.32	mg/Kg	J	0.94	5,100	
SPKN23(1-2)	7439-97-6	Mercury	160	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN23(8-9)	7440-38-2	Arsenic	2.1	mg/Kg		1.8	1.6	Y
SPKN23(8-9)	7440-39-3	Barium	76	mg/Kg	B	0.88	190,000	
SPKN23(8-9)	7440-43-9	Cadmium	0.19	mg/Kg	J	0.44	800	
SPKN23(8-9)	7440-47-3	Chromium	3.6	mg/Kg	B	1.3	1,500,000	
SPKN23(8-9)	7439-92-1	Lead	34	mg/Kg		0.7	800	
SPKN23(8-9)	7782-49-2	Selenium	3.9	mg/Kg		1.1	5,100	
SPKN23(8-9)	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
SPKN23(8-9)	7439-97-6	Mercury	10	ug/Kg	J	16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN24(1-2)	7440-38-2	Arsenic	4.6	mg/Kg		1.8	1.6	Y
SPKN24(1-2)	7440-39-3	Barium	130	mg/Kg	B	0.9	190,000	
SPKN24(1-2)	7440-43-9	Cadmium	0.78	mg/Kg		0.45	800	
SPKN24(1-2)	7440-47-3	Chromium	18	mg/Kg	B	1.4	1,500,000	
SPKN24(1-2)	7439-92-1	Lead	140	mg/Kg		0.72	800	

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SPKN24(1-2)	7439-92-1	Lead (TCLP)	0.092	mg/L	J	0.5	5	
SPKN24(1-2)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN24(1-2)	7440-22-4	Silver	ND	mg/Kg		0.9	5,100	
SPKN24(1-2)	7439-97-6	Mercury	29	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN24(4-6)	7440-38-2	Arsenic	3.5	mg/Kg		1.9	1.6	Y
SPKN24(4-6)	7440-39-3	Barium	110	mg/Kg	B	0.95	190,000	
SPKN24(4-6)	7440-43-9	Cadmium	0.14	mg/Kg	J	0.48	800	
SPKN24(4-6)	7440-47-3	Chromium	14	mg/Kg	B	1.4	1,500,000	
SPKN24(4-6)	7439-92-1	Lead	11	mg/Kg		0.76	800	
SPKN24(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN24(4-6)	7440-22-4	Silver	ND	mg/Kg		0.95	5,100	
SPKN24(4-6)	7439-97-6	Mercury	13	ug/Kg	J	16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN24(4-6)		Polychlorinated biphenyls, Total	ND	ug/Kg		33	37,000	
SPKN24(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		33	21,000	
SPKN24(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN24(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		33	540	
SPKN24(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		33	740	
SPKN24(4-6)	12672-29-6	PCB-1248	ND	ug/Kg		33	740	
SPKN24(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		33	740	
SPKN24(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		33	740	
SPKN24(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		33		
SPKN24(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		33		
Metals Via USA EPA Method 6010B and 7471A								
SPKN24(8-10)	7440-38-2	Arsenic	1.9	mg/Kg		1.8	1.6	Y
SPKN24(8-10)	7440-39-3	Barium	91	mg/Kg	B	0.92	190,000	
SPKN24(8-10)	7440-43-9	Cadmium	0.064	mg/Kg	J	0.46	800	
SPKN24(8-10)	7440-47-3	Chromium	18	mg/Kg	B	1.4	1,500,000	
SPKN24(8-10)	7439-92-1	Lead	9.9	mg/Kg		0.73	800	
SPKN24(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN24(8-10)	7440-22-4	Silver	ND	mg/Kg		0.92	5,100	
SPKN24(8-10)	7439-97-6	Mercury	ND	ug/Kg		17	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN24(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		31	37,000	
SPKN24(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		31	21,000	
SPKN24(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		45	540	
SPKN24(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		31	540	
SPKN24(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		31	740	
SPKN24(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		31	740	
SPKN24(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		31	740	
SPKN24(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		31	740	
SPKN24(8-10)	37324-23-5	PCB-1262	ND	ug/Kg		31		
SPKN24(8-10)	11100-14-4	PCB-1268	ND	ug/Kg		31		
Metals Via USA EPA Method 6010B and 7471A								
SPKN25(1-2)	7440-38-2	Arsenic	10	mg/Kg		2	1.6	Y
SPKN25(1-2)	7440-39-3	Barium	360	mg/Kg	B	0.98	190,000	
SPKN25(1-2)	7440-43-9	Cadmium	4.3	mg/Kg		0.49	800	
SPKN25(1-2)	7440-47-3	Chromium	40	mg/Kg	B	1.5	1,500,000	
SPKN25(1-2)	7439-92-1	Lead	890	mg/Kg		0.78	800	Y
SPKN25(1-2)	7439-92-1	Lead (TCLP)	0.9	mg/L		0.5	5	
SPKN25(1-2)	7782-49-2	Selenium	1.1	mg/Kg	J	1.3	5100	

Speken Metal Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN25(1-2)	7440-22-4	Silver	3.2	mg/Kg		0.98	5,100	
SPKN25(1-2)	7439-97-6	Mercury	370	ug/Kg		16	310	Y
Metals Via USA EPA Method 6010B and 7471A								
SPKN25(4-6)	7440-38-2	Arsenic	1.3	mg/Kg	J	1.9	1.6	
SPKN25(4-6)	7440-39-3	Barium	76	mg/Kg	B	0.95	190,000	
SPKN25(4-6)	7440-43-9	Cadmium	0.24	mg/Kg	J	0.48	800	
SPKN25(4-6)	7440-47-3	Chromium	8.9	mg/Kg	B	1.4	1,500,000	
SPKN25(4-6)	7439-92-1	Lead	11	mg/Kg		0.76	800	
SPKN25(4-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
SPKN25(4-6)	7440-22-4	Silver	ND	mg/Kg		0.95	5,100	
SPKN25(4-6)	7439-97-6	Mercury	ND	ug/Kg		17	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN25(4-6)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN25(4-6)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN25(4-6)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN25(4-6)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN25(4-6)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN25(4-6)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN25(4-6)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN25(4-6)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN25(4-6)	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN25(4-6)	11100-14-4	PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN25(8-10)	7440-38-2	Arsenic	0.63	mg/Kg	J	1.8	1.6	
SPKN25(8-10)	7440-39-3	Barium	21	mg/Kg	B	0.88	190,000	
SPKN25(8-10)	7440-43-9	Cadmium	ND	mg/Kg		0.44	800	
SPKN25(8-10)	7440-47-3	Chromium	150	mg/Kg	B	1.3	1,500,000	
SPKN25(8-10)	7439-92-1	Lead	5.1	mg/Kg		0.7	800	
SPKN25(8-10)	7782-49-2	Selenium	ND	mg/Kg		1.1	5,100	
SPKN25(8-10)	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
SPKN25(8-10)	7439-97-6	Mercury	ND	ug/Kg		16	310	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
SPKN25(8-10)		Polychlorinated biphenyls, Total	ND	ug/Kg		32	37,000	
SPKN25(8-10)	12674-11-2	PCB-1016	ND	ug/Kg		32	21,000	
SPKN25(8-10)	11104-28-2	PCB-1221	ND	ug/Kg		46	540	
SPKN25(8-10)	11141-16-5	PCB-1232	ND	ug/Kg		32	540	
SPKN25(8-10)	53469-21-9	PCB-1242	ND	ug/Kg		32	740	
SPKN25(8-10)	12672-29-6	PCB-1248	ND	ug/Kg		32	740	
SPKN25(8-10)	11097-69-1	PCB-1254	ND	ug/Kg		32	740	
SPKN25(8-10)	11096-82-5	PCB-1260	ND	ug/Kg		32	740	
SPKN25(8-10)	37324-23-5	PCB-1262	ND	ug/Kg		32		
SPKN25(8-10)	11100-14-4	PCB-1268	ND	ug/Kg		32		
Metals Via USA EPA Method 6010B and 7471A								
SPKN26(1-2)	7440-38-2	Arsenic	11	mg/Kg		1.9	1.6	Y
SPKN26(1-2)	7440-39-3	Barium	250	mg/Kg	B	0.93	190,000	
SPKN26(1-2)	7440-43-9	Cadmium	31	mg/Kg		0.46	800	
SPKN26(1-2)	7440-47-3	Chromium	53	mg/Kg	B	1.4	1500000	
SPKN26(1-2)	7439-92-1	Lead	1700	mg/Kg		0.74	800	Y
SPKN26(1-2)	7439-92-1	Lead (TCLP)	0.37	mg/L	J	0.5	5	
SPKN26(1-2)	7782-49-2	Selenium	1.5	mg/Kg		1.2	5100	
SPKN26(1-2)	7440-22-4	Silver	3.4	mg/Kg		0.93	5100	
SPKN26(1-2)	7439-97-6	Mercury	110	ug/Kg		15	310	

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Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Metals Via USA EPA Method 6010B and 7471A								
SPKN26(7-8)	7440-38-2	Arsenic	53	mg/Kg		1.9	1.6	Y
SPKN26(7-8)	7440-39-3	Barium	300	mg/Kg	B	0.93	190,000	
SPKN26(7-8)	7440-43-9	Cadmium	66	mg/Kg		0.47	800	
SPKN26(7-8)	7440-47-3	Chromium	240	mg/Kg	B	1.4	1,500,000	
SPKN26(7-8)	7439-92-1	Lead	8200	mg/Kg		0.75	800	Y
SPKN26(7-8)	7782-49-2	Selenium	5.2	mg/Kg		1.2	5,100	
SPKN26(7-8)	7440-22-4	Silver	11	mg/Kg		0.93	5,100	
SPKN26(7-8)	7439-97-6	Mercury	220	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN27(1-2)	7440-38-2	Arsenic	23	mg/Kg		1.8	1.6	Y
SPKN27(1-2)	7440-39-3	Barium	910	mg/Kg	B	0.88	190,000	
SPKN27(1-2)	7440-43-9	Cadmium	36	mg/Kg		0.44	800	
SPKN27(1-2)	7440-47-3	Chromium	140	mg/Kg	B	1.3	1,500,000	
SPKN27(1-2)	7439-92-1	Lead	6000	mg/Kg		0.71	800	Y
SPKN27(1-2)	7439-92-1	Lead (TCLP)	130	mg/L		0.5	5	Y
SPKN27(1-2)	7782-49-2	Selenium	4.2	mg/Kg		1.2	5100	
SPKN27(1-2)	7440-22-4	Silver	15	mg/Kg		0.88	5,100	
SPKN27(1-2)	7439-97-6	Mercury	1500	ug/Kg		81	310	Y
Metals Via USA EPA Method 6010B and 7471A								
SPKN28(1-2)	7440-38-2	Arsenic	49	mg/Kg		1.9	1.6	
SPKN28(1-2)	7440-39-3	Barium	1800	mg/Kg	B	0.95	190,000	
SPKN28(1-2)	7440-43-9	Cadmium	50	mg/Kg		0.48	800	
SPKN28(1-2)	7440-47-3	Chromium	100	mg/Kg	B	1.4	1500000	
SPKN28(1-2)	7439-92-1	Lead	27000	mg/Kg		1.2	800	Y
SPKN28(1-2)	7439-92-1	Lead (TCLP)	54	mg/L		0.5	5	Y
SPKN28(1-2)	7782-49-2	Selenium	22	mg/Kg		0.95	5100	
SPKN28(1-2)	7440-22-4	Silver	4.4	mg/Kg		76	5,100	
SPKN28(1-2)	7439-97-6	Mercury	1400	ug/Kg		89	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN29(1-2)	**TCLP**	**Lead**	0.29	mg/L	J	0.5	5.0 mg/L	
SPKN29(1-2)	7440-38-2	Arsenic	8.2	mg/Kg		1.8	1.6	Y
SPKN29(1-2)	7440-39-3	Barium	190	mg/Kg	B	0.89	190,000	
SPKN29(1-2)	7440-43-9	Cadmium	0.87	mg/Kg		0.45	800	
SPKN29(1-2)	7440-47-3	Chromium	8.6	mg/Kg	B	1.3	1,500,000	
SPKN29(1-2)	7439-92-1	Lead	300	mg/Kg		0.71	800	
SPKN29(1-2)	7782-49-2	Selenium	1.1	mg/Kg	J	1.2	5,100	
SPKN29(1-2)	7440-22-4	Silver	ND	mg/Kg		0.89	5,100	
SPKN29(1-2)	7439-97-6	Mercury	220	ug/Kg		15	310	
Metals Via USA EPA Method 6010B and 7471A								
SPKN30(1-2)	7440-38-2	Arsenic	4.6	mg/Kg		1.8	1.6	Y
SPKN30(1-2)	7440-39-3	Barium	1100	mg/Kg	B	0.91	160,000	
SPKN30(1-2)	7440-43-9	Cadmium	0.98	mg/Kg		0.45	770	
SPKN30(1-2)	7440-47-3	Chromium	7.6	mg/Kg		1.4	1,500,000	
SPKN30(1-2)	7439-92-1	Lead	110	mg/Kg		0.73	800	
SPKN30(1-2)	7439-92-1	Lead (TCLP)	0.083	mg/L	J	0.5	5	
SPKN30(1-2)	7782-49-2	Selenium	1.2	mg/Kg		1.2	5100	
SPKN30(1-2)	7440-22-4	Silver	ND	mg/Kg		0.91	5100	
SPKN30(1-2)	7439-97-6	Mercury	100	ug/Kg		17	300	
Metals Via USA EPA Method 6010B and 7471A								
SPKN31(1-2)	7440-38-2	Arsenic	3.9	mg/Kg		1.8	1.6	Y
SPKN31(1-2)	7440-39-3	Barium	410	mg/Kg	B	0.88	190,000	

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CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
SPKN31(1-2)	7440-43-9	Cadmium	0.33	mg/Kg	J	0.44	800	
SPKN31(1-2)	7440-47-3	Chromium	2.9	mg/Kg		1.3	1,500,000	
SPKN31(1-2)	7439-92-1	Lead	35	mg/Kg		0.7	800	
SPKN31(1-2)	7782-49-2	Selenium	1.2	mg/Kg		1.1	5,100	
SPKN31(1-2)	7440-22-4	Silver	ND	mg/Kg		0.88	5,100	
SPKN31(1-2)	7439-97-6	Mercury	14	ug/Kg	J	17	310	

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Table 13. Results of Laboratory Analysis of Soil Samples Collected at Iron Phoenix Property

Iron Phoenix Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Metals Via USA EPA Method 6010B and 7471A								
IP01 0-2FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
IP01 0-2FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
IP01 0-2FT	7440-39-3	Barium (Ba)	120	mg/kg		0.25	190,000	
IP01 0-2FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	800	
IP01 0-2FT	16065-83-1	Chromium (Cr)	1.9	mg/kg		0.50	1,500,000	
IP01 0-2FT	7439-92-1	Lead (Pb)	4.4	mg/kg		0.25	800	
IP01 0-2FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP01 0-2FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP01 0-2FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		1.7	99	
IP01 0-2FT	88-75-5	2 - Nitrophenol	ND	mg/kg		1.7	no value	
IP01 0-2FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.16	82,000	
IP01 0-2FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		1.7	12,000	
IP01 0-2FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		1.7	14	
IP01 0-2FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		1.7	160	
IP01 0-2FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		1.7	1,800	
IP01 0-2FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		1.7	1,200	
IP01 0-2FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		1.7	620	
IP01 0-2FT	95-57-8	2-Chlorophenol	ND	mg/kg		1.7	5,100	
IP01 0-2FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		1.7	3.8	
IP01 0-2FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	49	
IP01 0-2FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		1.7	no value	
IP01 0-2FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		1.7	no value	
IP01 0-2FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		1.7	no value	
IP01 0-2FT	100-02-7	4-Nitrophenol	ND	mg/kg		1.7	no value	
IP01 0-2FT	83-32-9	Acenaphthene	ND	mg/kg		0.16	33,000	
IP01 0-2FT	208-96-8	Acenaphthylene	ND	mg/kg		0.16	no value	
IP01 0-2FT	120-12-7	Anthracene	ND	mg/kg		0.16	170,000	
IP01 0-2FT	92-87-5	Benzidine	ND	mg/kg		1.7	no value	
IP01 0-2FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.16	2.1	
IP01 0-2FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.16	0.21	
IP01 0-2FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.16	2.1	
IP01 0-2FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.16	pending	
IP01 0-2FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.16	210	
IP01 0-2FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		1.7	1	
IP01 0-2FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		1.7	22	
IP01 0-2FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		1.7	120	
IP01 0-2FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		1.7	1,800	
IP01 0-2FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		1.7	910	
IP01 0-2FT	218-01-9	Chrysene	ND	mg/kg		0.16	210	
IP01 0-2FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.16	0.21	
IP01 0-2FT	84-66-2	Diethylphthalate	ND	mg/kg		1.7	490,000	
IP01 0-2FT	131-11-3	Dimethyl phthalate	ND	mg/kg		1.7	no value	
IP01 0-2FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		1.7	62,000	
IP01 0-2FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		1.7	7,400	
IP01 0-2FT	206-44-0	Fluoranthene	ND	mg/kg		0.16	220,000	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP01 0-2FT	86-73-7	Fluorene	ND	mg/kg		0.16	220,000	
IP01 0-2FT	118-74-1	Hexachlorobenzene	ND	mg/kg		1.7	1200	
IP01 0-2FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		1.7	22	
IP01 0-2FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		1.7	3,700	
IP01 0-2FT	67-72-1	Hexachloroethane	ND	mg/kg		1.7	43	
IP01 0-2FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.16	2.1	
IP01 0-2FT	78-59-1	Isophorone	ND	mg/kg		1.7	no value	
IP01 0-2FT	91-20-3	Naphthalene	ND	mg/kg		0.16	18	
IP01 0-2FT	98-95-3	Nitrobenzene	ND	mg/kg		1.7	24	
IP01 0-2FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		1.7	0.034	Y
IP01 0-2FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		1.7	0.25	Y
IP01 0-2FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		1.7	350	
IP01 0-2FT	87-86-5	Pentachlorophenol	ND	mg/kg		1.7	4.3	
IP01 0-2FT	85-01-8	Phenanthrene	ND	mg/kg		0.16	no value	
IP01 0-2FT	108-95-2	Phenol	ND	mg/kg		1.7	180000	
IP01 0-2FT	129-00-0	Pyrene	ND	mg/kg		0.16	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP01 5-7FT	7439-97-6	Mercury (Hg)	0.092	mg/kg		0.020	0.31	
IP01 5-7FT	7440-38-2	Arsenic (As)	33	mg/kg		1.0	1.6	Y
IP01 5-7FT	7440-39-3	Barium (Ba)	290	mg/kg		0.25	190,000	
IP01 5-7FT	7440-43-9	Cadmium (Cd)	4.5	mg/kg		0.25	800	
IP01 5-7FT	16065-83-1	Chromium (Cr)	7.6	mg/kg		0.50	1,500,000	
IP01 5-7FT	7439-92-1	Lead (Pb)	560	mg/kg		0.25	800	
IP01 5-7FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP01 5-7FT	7440-22-4	Silver (Ag)	1.3	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP01 5-7FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		6.7	99	
IP01 5-7FT	88-75-5	2 - Nitrophenol	ND	mg/kg		6.7	no value	
IP01 5-7FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.66	82,000	
IP01 5-7FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		6.7	12,000	
IP01 5-7FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		6.7	14	
IP01 5-7FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		6.7	160	
IP01 5-7FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		6.7	1,800	
IP01 5-7FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		6.7	1,200	
IP01 5-7FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		6.7	620	
IP01 5-7FT	95-57-8	2-Chlorophenol	ND	mg/kg		6.7	5,100	
IP01 5-7FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		6.7	3.8	
IP01 5-7FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		6.7	49	
IP01 5-7FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		6.7	no value	
IP01 5-7FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		6.7	no value	
IP01 5-7FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		6.7	no value	
IP01 5-7FT	100-02-7	4-Nitrophenol	ND	mg/kg		6.7	no value	
IP01 5-7FT	83-32-9	Acenaphthene	ND	mg/kg		0.66	33,000	
IP01 5-7FT	208-96-8	Acenaphthylene	ND	mg/kg		0.66	no value	
IP01 5-7FT	120-12-7	Anthracene	ND	mg/kg		0.66	170,000	
IP01 5-7FT	92-87-5	Benzidine	ND	mg/kg		6.7	no value	
IP01 5-7FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.66	2.1	
IP01 5-7FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.66	0.21	Y
IP01 5-7FT	205-99-2	Benzo[b]fluoranthene	0.7	mg/kg		0.66	2.1	
IP01 5-7FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.66	pending	
IP01 5-7FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.66	210	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP01 5-7FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		6.7	1	
IP01 5-7FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		6.7	22	
IP01 5-7FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		6.7	120	
IP01 5-7FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		6.7	1,800	
IP01 5-7FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		6.7	910	
IP01 5-7FT	218-01-9	Chrysene	ND	mg/kg		0.66	210	
IP01 5-7FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.66	0.21	Y
IP01 5-7FT	84-66-2	Diethylphthalate	ND	mg/kg		6.7	490,000	
IP01 5-7FT	131-11-3	Dimethyl phthalate	ND	mg/kg		6.7	no value	
IP01 5-7FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		6.7	62,000	
IP01 5-7FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		6.7	7,400	
IP01 5-7FT	206-44-0	Fluoranthene	0.85	mg/kg		0.66	220,000	
IP01 5-7FT	86-73-7	Fluorene	ND	mg/kg		0.66	220,000	
IP01 5-7FT	118-74-1	Hexachlorobenzene	ND	mg/kg		6.7	1,200	Y
IP01 5-7FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		6.7	22	
IP01 5-7FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		6.7	3,700	
IP01 5-7FT	67-72-1	Hexachloroethane	ND	mg/kg		6.7	43	
IP01 5-7FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.66	2.1	
IP01 5-7FT	78-59-1	Isophorone	ND	mg/kg		6.7	no value	
IP01 5-7FT	91-20-3	Naphthalene	ND	mg/kg		0.66	18	
IP01 5-7FT	98-95-3	Nitrobenzene	ND	mg/kg		6.7	24	Y
IP01 5-7FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		6.7	0.034	Y
IP01 5-7FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		6.7	0.25	Y
IP01 5-7FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		6.7	350	
IP01 5-7FT	87-86-5	Pentachlorophenol	ND	mg/kg		6.7	4.3	Y
IP01 5-7FT	85-01-8	Phenanthrene	1.1	mg/kg		0.66	no value	
IP01 5-7FT	108-95-2	Phenol	ND	mg/kg		6.7	180000	
IP01 5-7FT	129-00-0	Pyrene	ND	mg/kg		0.66	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP01 10-12FT	7439-97-6	Mercury (Hg)	0.035	mg/kg		0.020	0.31	
IP01 10-12FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
IP01 10-12FT	7440-39-3	Barium (Ba)	150	mg/kg		0.25	190,000	
IP01 10-12FT	7440-43-9	Cadmium (Cd)	1.3	mg/kg		0.25	800	
IP01 10-12FT	16065-83-1	Chromium (Cr)	11	mg/kg		0.50	1,500,000	
IP01 10-12FT	7439-92-1	Lead (Pb)	34	mg/kg		0.25	800	
IP01 10-12FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP01 10-12FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP01 10-12FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		1.7	99	
IP01 10-12FT	88-75-5	2 - Nitrophenol	ND	mg/kg		1.7	no value	
IP01 10-12FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.16	82,000	
IP01 10-12FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		1.7	12,000	
IP01 10-12FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		1.7	14	
IP01 10-12FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		1.7	160	
IP01 10-12FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		1.7	1,800	
IP01 10-12FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		1.7	1,200	
IP01 10-12FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		1.7	620	
IP01 10-12FT	95-57-8	2-Chlorophenol	ND	mg/kg		1.7	5,100	
IP01 10-12FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		1.7	3.8	
IP01 10-12FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	49	
IP01 10-12FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		1.7	no value	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP01 10-12FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		1.7	no value	
IP01 10-12FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		1.7	no value	
IP01 10-12FT	100-02-7	4-Nitrophenol	ND	mg/kg		1.7	no value	
IP01 10-12FT	83-32-9	Acenaphthene	ND	mg/kg		0.16	33,000	
IP01 10-12FT	208-96-8	Acenaphthylene	ND	mg/kg		0.16	no value	
IP01 10-12FT	120-12-7	Anthracene	ND	mg/kg		0.16	170,000	
IP01 10-12FT	92-87-5	Benzidine	ND	mg/kg		1.7	no value	
IP01 10-12FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.16	2.1	
IP01 10-12FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.16	0.21	
IP01 10-12FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.16	2.1	
IP01 10-12FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.16	pending	
IP01 10-12FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.16	210	
IP01 10-12FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		1.7	1	
IP01 10-12FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		1.7	22	
IP01 10-12FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		1.7	120	
IP01 10-12FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		1.7	1,800	
IP01 10-12FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		1.7	910	
IP01 10-12FT	218-01-9	Chrysene	ND	mg/kg		0.16	210	
IP01 10-12FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.16	0.21	
IP01 10-12FT	84-66-2	Diethylphthalate	ND	mg/kg		1.7	490,000	
IP01 10-12FT	131-11-3	Dimethyl phthalate	ND	mg/kg		1.7	no value	
IP01 10-12FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		1.7	62,000	
IP01 10-12FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		1.7	7,400	
IP01 10-12FT	206-44-0	Fluoranthene	ND	mg/kg		0.16	220,000	
IP01 10-12FT	86-73-7	Fluorene	ND	mg/kg		0.16	220,000	
IP01 10-12FT	118-74-1	Hexachlorobenzene	ND	mg/kg		1.7	1,200	
IP01 10-12FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		1.7	22	
IP01 10-12FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		1.7	3,700	
IP01 10-12FT	67-72-1	Hexachloroethane	ND	mg/kg		1.7	43	
IP01 10-12FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.16	2.1	
IP01 10-12FT	78-59-1	Isophorone	ND	mg/kg		1.7	no value	
IP01 10-12FT	91-20-3	Naphthalene	ND	mg/kg		0.16	18	
IP01 10-12FT	98-95-3	Nitrobenzene	ND	mg/kg		1.7	24	
IP01 10-12FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		1.7	0.034	Y
IP01 10-12FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		1.7	0.25	Y
IP01 10-12FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		1.7	350	
IP01 10-12FT	87-86-5	Pentachlorophenol	ND	mg/kg		1.7	4.3	
IP01 10-12FT	85-01-8	Phenanthrene	ND	mg/kg		0.16	no value	
IP01 10-12FT	108-95-2	Phenol	ND	mg/kg		1.7	180000	
IP01 10-12FT	129-00-0	Pyrene	ND	mg/kg		0.16	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP01 15-17FT	7439-97-6	Mercury (Hg)	0.16	mg/kg		0.020	0.31	
IP01 15-17FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
IP01 15-17FT	7440-39-3	Barium (Ba)	160	mg/kg		0.25	190,000	
IP01 15-17FT	7440-43-9	Cadmium (Cd)	5.6	mg/kg		0.25	800	
IP01 15-17FT	16065-83-1	Chromium (Cr)	12	mg/kg		0.50	1,500,000	
IP01 15-17FT	7439-92-1	Lead (Pb)	170	mg/kg		0.25	800	
IP01 15-17FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP01 15-17FT	7440-22-4	Silver (Ag)	0.6	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP01 15-17FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		6.7	99	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP01 15-17FT	88-75-5	2 - Nitrophenol	ND	mg/kg		6.7	no value	
IP01 15-17FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.66	82,000	
IP01 15-17FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		6.7	12,000	
IP01 15-17FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		6.7	14	
IP01 15-17FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		6.7	160	
IP01 15-17FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		6.7	1,800	
IP01 15-17FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		6.7	1,200	
IP01 15-17FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		6.7	620	
IP01 15-17FT	95-57-8	2-Chlorophenol	ND	mg/kg		6.7	5,100	
IP01 15-17FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		6.7	3.8	
IP01 15-17FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		6.7	49	
IP01 15-17FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		6.7	no value	
IP01 15-17FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		6.7	no value	
IP01 15-17FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		6.7	no value	
IP01 15-17FT	100-02-7	4-Nitrophenol	ND	mg/kg		6.7	no value	
IP01 15-17FT	83-32-9	Acenaphthene	ND	mg/kg		0.66	33,000	
IP01 15-17FT	208-96-8	Acenaphthylene	ND	mg/kg		0.66	no value	
IP01 15-17FT	120-12-7	Anthracene	ND	mg/kg		0.66	170,000	
IP01 15-17FT	92-87-5	Benzidine	ND	mg/kg		6.7	no value	
IP01 15-17FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.66	2.1	
IP01 15-17FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.66	0.21	Y
IP01 15-17FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.66	2.1	
IP01 15-17FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.66	pending	
IP01 15-17FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.66	210	
IP01 15-17FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		6.7	1	
IP01 15-17FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		6.7	22	
IP01 15-17FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		6.7	120	
IP01 15-17FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		6.7	1,800	
IP01 15-17FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		6.7	910	
IP01 15-17FT	218-01-9	Chrysene	ND	mg/kg		0.66	210	
IP01 15-17FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.66	0.21	Y
IP01 15-17FT	84-66-2	Diethylphthalate	ND	mg/kg		6.7	490,000	
IP01 15-17FT	131-11-3	Dimethyl phthalate	ND	mg/kg		6.7	no value	
IP01 15-17FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		6.7	62,000	
IP01 15-17FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		6.7	7,400	
IP01 15-17FT	206-44-0	Fluoranthene	ND	mg/kg		0.66	220,000	
IP01 15-17FT	86-73-7	Fluorene	ND	mg/kg		0.66	220,000	
IP01 15-17FT	118-74-1	Hexachlorobenzene	ND	mg/kg		6.7	1,200	Y
IP01 15-17FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		6.7	22	
IP01 15-17FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		6.7	3,700	
IP01 15-17FT	67-72-1	Hexachloroethane	ND	mg/kg		6.7	43	
IP01 15-17FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.66	2.1	
IP01 15-17FT	78-59-1	Isophorone	ND	mg/kg		6.7	no value	
IP01 15-17FT	91-20-3	Naphthalene	ND	mg/kg		0.66	18	
IP01 15-17FT	98-95-3	Nitrobenzene	ND	mg/kg		6.7	24	Y
IP01 15-17FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		6.7	0.034	Y
IP01 15-17FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		6.7	0.25	Y
IP01 15-17FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		6.7	350	
IP01 15-17FT	87-86-5	Pentachlorophenol	ND	mg/kg		6.7	4.3	Y
IP01 15-17FT	85-01-8	Phenanthrene	ND	mg/kg		0.66	no value	
IP01 15-17FT	108-95-2	Phenol	ND	mg/kg		6.7	180000	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP01 15-17FT	129-00-0	Pyrene	ND	mg/kg		0.66	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP02 0-2FT	7439-97-6	Mercury (Hg)	0.46	mg/kg		0.020	0.31	
IP02 0-2FT	7440-38-2	Arsenic (As)	22	mg/kg		1.0	1.6	Y
IP02 0-2FT	7440-39-3	Barium (Ba)	210	mg/kg		0.25	190,000	
IP02 0-2FT	7440-43-9	Cadmium (Cd)	6.8	mg/kg		0.25	800	
IP02 0-2FT	16065-83-1	Chromium (Cr)	3.1	mg/kg		0.50	1,500,000	
IP02 0-2FT	7439-92-1	Lead (Pb)	410	mg/kg		0.25	800	
IP02 0-2FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP02 0-2FT	7440-22-4	Silver (Ag)	2.4	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP02 0-2FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		3.3	99	
IP02 0-2FT	88-75-5	2 - Nitrophenol	ND	mg/kg		3.3	no value	
IP02 0-2FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.33	82,000	
IP02 0-2FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		3.3	12,000	
IP02 0-2FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		3.3	14	
IP02 0-2FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		3.3	160	
IP02 0-2FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		3.3	1,800	
IP02 0-2FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		3.3	1,200	
IP02 0-2FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		3.3	620	
IP02 0-2FT	95-57-8	2-Chlorophenol	ND	mg/kg		3.3	5,100	
IP02 0-2FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		3.3	3.8	
IP02 0-2FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		3.3	49	
IP02 0-2FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		3.3	no value	
IP02 0-2FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		3.3	no value	
IP02 0-2FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		3.3	no value	
IP02 0-2FT	100-02-7	4-Nitrophenol	ND	mg/kg		3.3	no value	
IP02 0-2FT	83-32-9	Acenaphthene	ND	mg/kg		0.33	33,000	
IP02 0-2FT	208-96-8	Acenaphthylene	ND	mg/kg		0.33	no value	
IP02 0-2FT	120-12-7	Anthracene	ND	mg/kg		0.33	170,000	
IP02 0-2FT	92-87-5	Benzidine	ND	mg/kg		3.3	no value	
IP02 0-2FT	56-55-3	Benzo[a]anthracene	0.40	mg/kg		0.33	2.1	
IP02 0-2FT	50-32-8	Benzo[a]pyrene	0.47	mg/kg		0.33	0.21	Y
IP02 0-2FT	205-99-2	Benzo[b]fluoranthene	1.0	mg/kg		0.33	2.1	
IP02 0-2FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.33	pending	
IP02 0-2FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.33	210	
IP02 0-2FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		3.3	1	
IP02 0-2FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		3.3	22	
IP02 0-2FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		3.3	120	
IP02 0-2FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		3.3	1,800	
IP02 0-2FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		3.3	910	
IP02 0-2FT	218-01-9	Chrysene	0.53	mg/kg		0.33	210	
IP02 0-2FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.33	0.21	
IP02 0-2FT	84-66-2	Diethylphthalate	ND	mg/kg		3.3	490,000	
IP02 0-2FT	131-11-3	Dimethyl phthalate	ND	mg/kg		3.3	no value	
IP02 0-2FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		3.3	62,000	
IP02 0-2FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		3.3	7,400	
IP02 0-2FT	206-44-0	Fluoranthene	0.57	mg/kg		0.33	220,000	
IP02 0-2FT	86-73-7	Fluorene	ND	mg/kg		0.33	220,000	
IP02 0-2FT	118-74-1	Hexachlorobenzene	ND	mg/kg		3.3	1,200	Y
IP02 0-2FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		3.3	22	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP02 0-2FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		3.3	3,700	
IP02 0-2FT	67-72-1	Hexachloroethane	ND	mg/kg		3.3	43	
IP02 0-2FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.33	2.1	
IP02 0-2FT	78-59-1	Isophorone	ND	mg/kg		3.3	no value	
IP02 0-2FT	91-20-3	Naphthalene	ND	mg/kg		0.33	18	
IP02 0-2FT	98-95-3	Nitrobenzene	ND	mg/kg		3.3	24	
IP02 0-2FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		3.3	0.034	**Y**
IP02 0-2FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		3.3	0.25	**Y**
IP02 0-2FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		3.3	350	
IP02 0-2FT	87-86-5	Pentachlorophenol	ND	mg/kg		3.3	4.3	
IP02 0-2FT	85-01-8	Phenanthrene	0.33	mg/kg		0.33	no value	
IP02 0-2FT	108-95-2	Phenol	ND	mg/kg		3.3	180000	
IP02 0-2FT	129-00-0	Pyrene	0.5	mg/kg		0.33	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP02 5-7FT	7439-97-6	Mercury (Hg)	0.11	mg/kg		0.020	0.31	
IP02 5-7FT	7440-38-2	Arsenic (As)	21	mg/kg		1.0	1.6	**Y**
IP02 5-7FT	7440-39-3	Barium (Ba)	260	mg/kg		0.25	190,000	
IP02 5-7FT	7440-43-9	Cadmium (Cd)	5.5	mg/kg		0.25	800	
IP02 5-7FT	16065-83-1	Chromium (Cr)	3.9	mg/kg		0.50	1,500,000	
IP02 5-7FT	7439-92-1	Lead (Pb)	440	mg/kg		0.25	800	
IP02 5-7FT	7782-49-2	Selenium (Se)	1.4	mg/kg		1.0	5,100	
IP02 5-7FT	7440-22-4	Silver (Ag)	1.5	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP02 5-7FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		1.7	99	
IP02 5-7FT	88-75-5	2 - Nitrophenol	ND	mg/kg		1.7	no value	
IP02 5-7FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.16	82,000	
IP02 5-7FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		1.7	12,000	
IP02 5-7FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		1.7	14	
IP02 5-7FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		1.7	160	
IP02 5-7FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		1.7	1,800	
IP02 5-7FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		1.7	1,200	
IP02 5-7FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		1.7	620	
IP02 5-7FT	95-57-8	2-Chlorophenol	ND	mg/kg		1.7	5,100	
IP02 5-7FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		1.7	3.8	
IP02 5-7FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	49	
IP02 5-7FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		1.7	no value	
IP02 5-7FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		1.7	no value	
IP02 5-7FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		1.7	no value	
IP02 5-7FT	100-02-7	4-Nitrophenol	ND	mg/kg		1.7	no value	
IP02 5-7FT	83-32-9	Acenaphthene	ND	mg/kg		0.16	33,000	
IP02 5-7FT	208-96-8	Acenaphthylene	ND	mg/kg		0.16	no value	
IP02 5-7FT	120-12-7	Anthracene	ND	mg/kg		0.16	170,000	
IP02 5-7FT	92-87-5	Benzidine	ND	mg/kg		1.7	no value	
IP02 5-7FT	56-55-3	Benzo[a]anthracene	0.23	mg/kg		0.16	2.1	
IP02 5-7FT	50-32-8	Benzo[a]pyrene	0.26	mg/kg		0.16	0.21	
IP02 5-7FT	205-99-2	Benzo[b]fluoranthene	0.57	mg/kg		0.16	2.1	
IP02 5-7FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.16	pending	
IP02 5-7FT	207-08-9	Benzo[k]fluoranthene	0.2	mg/kg		0.16	210	
IP02 5-7FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		1.7	1	
IP02 5-7FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		1.7	22	
IP02 5-7FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		1.7	120	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP02 5-7FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		1.7	1,800	
IP02 5-7FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		1.7	910	
IP02 5-7FT	218-01-9	Chrysene	0.33	mg/kg		0.16	210	
IP02 5-7FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.16	0.21	
IP02 5-7FT	84-66-2	Diethylphthalate	ND	mg/kg		1.7	490,000	
IP02 5-7FT	131-11-3	Dimethyl phthalate	ND	mg/kg		1.7	no value	
IP02 5-7FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		1.7	62,000	
IP02 5-7FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		1.7	7,400	
IP02 5-7FT	206-44-0	Fluoranthene	0.26	mg/kg		0.16	220,000	
IP02 5-7FT	86-73-7	Fluorene	ND	mg/kg		0.16	220,000	
IP02 5-7FT	118-74-1	Hexachlorobenzene	ND	mg/kg		1.7	1,200	
IP02 5-7FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		1.7	22	
IP02 5-7FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		1.7	3,700	
IP02 5-7FT	67-72-1	Hexachloroethane	ND	mg/kg		1.7	43	
IP02 5-7FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.16	2.1	
IP02 5-7FT	78-59-1	Isophorone	ND	mg/kg		1.7	no value	
IP02 5-7FT	91-20-3	Naphthalene	ND	mg/kg		0.16	18	
IP02 5-7FT	98-95-3	Nitrobenzene	ND	mg/kg		1.7	24	
IP02 5-7FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		1.7	0.034	Y
IP02 5-7FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		1.7	0.25	Y
IP02 5-7FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		1.7	350	
IP02 5-7FT	87-86-5	Pentachlorophenol	ND	mg/kg		1.7	4.3	
IP02 5-7FT	85-01-8	Phenanthrene	ND	mg/kg		0.16	no value	
IP02 5-7FT	108-95-2	Phenol	ND	mg/kg		1.7	180000	
IP02 5-7FT	129-00-0	Pyrene	0.23	mg/kg		0.16	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP02 10-12FT	7439-97-6	Mercury (Hg)	0.48	mg/kg		0.020	0.31	
IP02 10-12FT	7440-38-2	Arsenic (As)	13	mg/kg		1.0	1.6	Y
IP02 10-12FT	7440-39-3	Barium (Ba)	130	mg/kg		0.25	190,000	
IP02 10-12FT	7440-43-9	Cadmium (Cd)	1.4	mg/kg		0.25	800	
IP02 10-12FT	16065-83-1	Chromium (Cr)	11	mg/kg		0.50	1,500,000	
IP02 10-12FT	7439-92-1	Lead (Pb)	120	mg/kg		0.25	800	
IP02 10-12FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP02 10-12FT	7440-22-4	Silver (Ag)	0.56	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP02 10-12FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		3.3	99	
IP02 10-12FT	88-75-5	2 - Nitrophenol	ND	mg/kg		3.3	no value	
IP02 10-12FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.33	82,000	
IP02 10-12FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		3.3	12,000	
IP02 10-12FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		3.3	14	
IP02 10-12FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		3.3	160	
IP02 10-12FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		3.3	1,800	
IP02 10-12FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		3.3	1,200	
IP02 10-12FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		3.3	620	
IP02 10-12FT	95-57-8	2-Chlorophenol	ND	mg/kg		3.3	5,100	
IP02 10-12FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		3.3	3.8	
IP02 10-12FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		3.3	49	
IP02 10-12FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		3.3	no value	
IP02 10-12FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		3.3	no value	
IP02 10-12FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		3.3	no value	
IP02 10-12FT	100-02-7	4-Nitrophenol	ND	mg/kg		3.3	no value	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP02 10-12FT	83-32-9	Acenaphthene	ND	mg/kg		0.33	33,000	
IP02 10-12FT	208-96-8	Acenaphthylene	ND	mg/kg		0.33	no value	
IP02 10-12FT	120-12-7	Anthracene	ND	mg/kg		0.33	170,000	
IP02 10-12FT	92-87-5	Benzidine	ND	mg/kg		3.3	no value	
IP02 10-12FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.33	2.1	
IP02 10-12FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.33	0.21	Y
IP02 10-12FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.33	2.1	
IP02 10-12FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.33	pending	
IP02 10-12FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.33	210	
IP02 10-12FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		3.3	1	
IP02 10-12FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		3.3	22	
IP02 10-12FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		3.3	120	
IP02 10-12FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		3.3	1,800	
IP02 10-12FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		3.3	910	
IP02 10-12FT	218-01-9	Chrysene	ND	mg/kg		0.33	210	
IP02 10-12FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.33	0.21	
IP02 10-12FT	84-66-2	Diethylphthalate	ND	mg/kg		3.3	490,000	
IP02 10-12FT	131-11-3	Dimethyl phthalate	ND	mg/kg		3.3	no value	
IP02 10-12FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		3.3	62,000	
IP02 10-12FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		3.3	7,400	
IP02 10-12FT	206-44-0	Fluoranthene	ND	mg/kg		0.33	220,000	
IP02 10-12FT	86-73-7	Fluorene	ND	mg/kg		0.33	220,000	
IP02 10-12FT	118-74-1	Hexachlorobenzene	ND	mg/kg		3.3	1,200	Y
IP02 10-12FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		3.3	22	
IP02 10-12FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		3.3	3,700	
IP02 10-12FT	67-72-1	Hexachloroethane	ND	mg/kg		3.3	43	
IP02 10-12FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.33	2.1	
IP02 10-12FT	78-59-1	Isophorone	ND	mg/kg		3.3	no value	
IP02 10-12FT	91-20-3	Naphthalene	ND	mg/kg		0.33	18	
IP02 10-12FT	98-95-3	Nitrobenzene	ND	mg/kg		3.3	24	
IP02 10-12FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		3.3	0.034	Y
IP02 10-12FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		3.3	0.25	Y
IP02 10-12FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		3.3	350	
IP02 10-12FT	87-86-5	Pentachlorophenol	ND	mg/kg		3.3	4.3	
IP02 10-12FT	85-01-8	Phenanthrene	ND	mg/kg		0.33	no value	
IP02 10-12FT	108-95-2	Phenol	ND	mg/kg		3.3	180000	
IP02 10-12FT	129-00-0	Pyrene	ND	mg/kg		0.33	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP02 15-17FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
IP02 15-17FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
IP02 15-17FT	7440-39-3	Barium (Ba)	16	mg/kg		0.25	190,000	
IP02 15-17FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	800	
IP02 15-17FT	16065-83-1	Chromium (Cr)	2.4	mg/kg		0.50	1,500,000	
IP02 15-17FT	7439-92-1	Lead (Pb)	1	mg/kg		0.25	800	
IP02 15-17FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP02 15-17FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP02 15-17FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP02 15-17FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP02 15-17FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP02 15-17FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP02 15-17FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP02 15-17FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP02 15-17FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP02 15-17FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP02 15-17FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP02 15-17FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	
IP02 15-17FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP02 15-17FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP02 15-17FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP02 15-17FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP02 15-17FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP02 15-17FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP02 15-17FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP02 15-17FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP02 15-17FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	
IP02 15-17FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP02 15-17FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.033	2.1	
IP02 15-17FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.033	0.21	
IP02 15-17FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.033	2.1	
IP02 15-17FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP02 15-17FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP02 15-17FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP02 15-17FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP02 15-17FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP02 15-17FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP02 15-17FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP02 15-17FT	218-01-9	Chrysene	ND	mg/kg		0.033	210	
IP02 15-17FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP02 15-17FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP02 15-17FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	
IP02 15-17FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP02 15-17FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP02 15-17FT	206-44-0	Fluoranthene	ND	mg/kg		0.033	220,000	
IP02 15-17FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP02 15-17FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP02 15-17FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP02 15-17FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP02 15-17FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP02 15-17FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	
IP02 15-17FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP02 15-17FT	91-20-3	Naphthalene	ND	mg/kg		0.033	18	
IP02 15-17FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP02 15-17FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	Y
IP02 15-17FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	Y
IP02 15-17FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP02 15-17FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP02 15-17FT	85-01-8	Phenanthrene	ND	mg/kg		0.033	no value	
IP02 15-17FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP02 15-17FT	129-00-0	Pyrene	ND	mg/kg		0.033	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP03 0-2FT	7439-97-6	Mercury (Hg)	0.035	mg/kg		0.020	0.31	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP03 0-2FT	7440-38-2	Arsenic (As)	9.0	mg/kg		1.0	1.6	Y
IP03 0-2FT	7440-39-3	Barium (Ba)	170	mg/kg		0.25	190,000	
IP03 0-2FT	7440-43-9	Cadmium (Cd)	1.7	mg/kg		0.25	800	
IP03 0-2FT	16065-83-1	Chromium (Cr)	8.5	mg/kg		0.50	1,500,000	
IP03 0-2FT	7439-92-1	Lead (Pb)	54	mg/kg		0.25	800	
IP03 0-2FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP03 0-2FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP03 0-2FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP03 0-2FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP03 0-2FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP03 0-2FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	
IP03 0-2FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP03 0-2FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP03 0-2FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP03 0-2FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP03 0-2FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP03 0-2FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	
IP03 0-2FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP03 0-2FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP03 0-2FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP03 0-2FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP03 0-2FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP03 0-2FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP03 0-2FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP03 0-2FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP03 0-2FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	
IP03 0-2FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP03 0-2FT	56-55-3	Benzo[a]anthracene	0.057	mg/kg		0.033	2.1	
IP03 0-2FT	50-32-8	Benzo[a]pyrene	0.053	mg/kg		0.033	0.21	
IP03 0-2FT	205-99-2	Benzo[b]fluoranthene	0.081	mg/kg		0.033	2.1	
IP03 0-2FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP03 0-2FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP03 0-2FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP03 0-2FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP03 0-2FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP03 0-2FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP03 0-2FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP03 0-2FT	218-01-9	Chrysene	0.062	mg/kg		0.033	210	
IP03 0-2FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP03 0-2FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP03 0-2FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	
IP03 0-2FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP03 0-2FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP03 0-2FT	206-44-0	Fluoranthene	0.11	mg/kg		0.033	220,000	
IP03 0-2FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP03 0-2FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP03 0-2FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP03 0-2FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP03 0-2FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP03 0-2FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP03 0-2FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP03 0-2FT	91-20-3	Naphthalene	ND	mg/kg		0.033	18	
IP03 0-2FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP03 0-2FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	Y
IP03 0-2FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	Y
IP03 0-2FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP03 0-2FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP03 0-2FT	85-01-8	Phenanthrene	0.068	mg/kg		0.033	no value	
IP03 0-2FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP03 0-2FT	129-00-0	Pyrene	0.093	mg/kg		0.033	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP03 5-7FT	7439-97-6	Mercury (Hg)	0.16	mg/kg		0.020	0.31	
IP03 5-7FT	7440-38-2	Arsenic (As)	23	mg/kg		1.0	1.6	Y
IP03 5-7FT	7440-39-3	Barium (Ba)	200	mg/kg		0.25	190,000	
IP03 5-7FT	7440-43-9	Cadmium (Cd)	4.8	mg/kg		0.25	800	
IP03 5-7FT	16065-83-1	Chromium (Cr)	8.7	mg/kg		0.50	1,500,000	
IP03 5-7FT	7439-92-1	Lead (Pb)	260	mg/kg		0.25	800	
IP03 5-7FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP03 5-7FT	7440-22-4	Silver (Ag)	1.0	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP03 5-7FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		3.3	99	
IP03 5-7FT	88-75-5	2 - Nitrophenol	ND	mg/kg		3.3	no value	
IP03 5-7FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.33	82,000	
IP03 5-7FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		3.3	12,000	
IP03 5-7FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		3.3	14	
IP03 5-7FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		3.3	160	
IP03 5-7FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		3.3	1,800	
IP03 5-7FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		3.3	1,200	
IP03 5-7FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		3.3	620	
IP03 5-7FT	95-57-8	2-Chlorophenol	ND	mg/kg		3.3	5,100	
IP03 5-7FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		3.3	3.8	
IP03 5-7FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		3.3	49	
IP03 5-7FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		3.3	no value	
IP03 5-7FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		3.3	no value	
IP03 5-7FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		3.3	no value	
IP03 5-7FT	100-02-7	4-Nitrophenol	ND	mg/kg		3.3	no value	
IP03 5-7FT	83-32-9	Acenaphthene	ND	mg/kg		0.33	33,000	
IP03 5-7FT	208-96-8	Acenaphthylene	ND	mg/kg		0.33	no value	
IP03 5-7FT	120-12-7	Anthracene	ND	mg/kg		0.33	170,000	
IP03 5-7FT	92-87-5	Benzidine	ND	mg/kg		3.3	no value	
IP03 5-7FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.33	2.1	
IP03 5-7FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.33	0.21	Y
IP03 5-7FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.33	2.1	
IP03 5-7FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.33	pending	
IP03 5-7FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.33	210	
IP03 5-7FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		3.3	1	
IP03 5-7FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		3.3	22	
IP03 5-7FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		3.3	120	
IP03 5-7FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		3.3	1,800	
IP03 5-7FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		3.3	910	
IP03 5-7FT	218-01-9	Chrysene	ND	mg/kg		0.33	210	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP03 5-7FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.33	0.21	
IP03 5-7FT	84-66-2	Diethylphthalate	ND	mg/kg		3.3	490,000	
IP03 5-7FT	131-11-3	Dimethyl phthalate	ND	mg/kg		3.3	no value	
IP03 5-7FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		3.3	62,000	
IP03 5-7FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		3.3	7,400	
IP03 5-7FT	206-44-0	Fluoranthene	ND	mg/kg		0.33	220,000	
IP03 5-7FT	86-73-7	Fluorene	ND	mg/kg		0.33	220,000	
IP03 5-7FT	118-74-1	Hexachlorobenzene	ND	mg/kg		3.3	1,200	**Y**
IP03 5-7FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		3.3	22	
IP03 5-7FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		3.3	3,700	
IP03 5-7FT	67-72-1	Hexachloroethane	ND	mg/kg		3.3	43	
IP03 5-7FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.33	2.1	
IP03 5-7FT	78-59-1	Isophorone	ND	mg/kg		3.3	no value	
IP03 5-7FT	91-20-3	Naphthalene	ND	mg/kg		0.33	18	
IP03 5-7FT	98-95-3	Nitrobenzene	ND	mg/kg		3.3	24	
IP03 5-7FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		3.3	0.034	**Y**
IP03 5-7FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		3.3	0.25	**Y**
IP03 5-7FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		3.3	350	
IP03 5-7FT	87-86-5	Pentachlorophenol	ND	mg/kg		3.3	4.3	
IP03 5-7FT	85-01-8	Phenanthrene	ND	mg/kg		0.33	no value	
IP03 5-7FT	108-95-2	Phenol	ND	mg/kg		3.3	180000	
IP03 5-7FT	129-00-0	Pyrene	ND	mg/kg		0.33	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP03 10-12FT	7439-97-6	Mercury (Hg)	0.64	mg/kg		0.020	0.31	
IP03 10-12FT	7440-38-2	Arsenic (As)	ND	mg/kg		1.0	1.6	
IP03 10-12FT	7440-39-3	Barium (Ba)	130	mg/kg		0.25	190,000	
IP03 10-12FT	7440-43-9	Cadmium (Cd)	1.1	mg/kg		0.25	800	
IP03 10-12FT	16065-83-1	Chromium (Cr)	10	mg/kg		0.50	1,500,000	
IP03 10-12FT	7439-92-1	Lead (Pb)	110	mg/kg		0.25	800	
IP03 10-12FT	7782-49-2	Selenium (Se)	ND	mg/kg		1.0	5,100	
IP03 10-12FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP03 10-12FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP03 10-12FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP03 10-12FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP03 10-12FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	
IP03 10-12FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP03 10-12FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP03 10-12FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP03 10-12FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP03 10-12FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP03 10-12FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	
IP03 10-12FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP03 10-12FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP03 10-12FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP03 10-12FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP03 10-12FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP03 10-12FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP03 10-12FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP03 10-12FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP03 10-12FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP03 10-12FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP03 10-12FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.033	2.1	
IP03 10-12FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.033	0.21	
IP03 10-12FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.033	2.1	
IP03 10-12FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP03 10-12FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP03 10-12FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP03 10-12FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP03 10-12FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP03 10-12FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP03 10-12FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP03 10-12FT	218-01-9	Chrysene	ND	mg/kg		0.033	210	
IP03 10-12FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP03 10-12FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP03 10-12FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	
IP03 10-12FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP03 10-12FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP03 10-12FT	206-44-0	Fluoranthene	ND	mg/kg		0.033	220,000	
IP03 10-12FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP03 10-12FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP03 10-12FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP03 10-12FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP03 10-12FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP03 10-12FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	
IP03 10-12FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP03 10-12FT	91-20-3	Naphthalene	ND	mg/kg		0.033	18	
IP03 10-12FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP03 10-12FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	Y
IP03 10-12FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	Y
IP03 10-12FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP03 10-12FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP03 10-12FT	85-01-8	Phenanthrene	ND	mg/kg		0.033	no value	
IP03 10-12FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP03 10-12FT	129-00-0	Pyrene	ND	mg/kg		0.033	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP03 15-17FT	7439-97-6	Mercury (Hg)	0.053	mg/kg		0.020	0.31	
IP03 15-17FT	7440-38-2	Arsenic (As)	140	mg/kg		1.0	1.6	Y
IP03 15-17FT	7440-39-3	Barium (Ba)	140	mg/kg		0.25	190,000	
IP03 15-17FT	7440-43-9	Cadmium (Cd)	1.7	mg/kg		0.25	800	
IP03 15-17FT	16065-83-1	Chromium (Cr)	21	mg/kg		0.50	1,500,000	
IP03 15-17FT	7439-92-1	Lead (Pb)	130	mg/kg		0.25	800	
IP03 15-17FT	7782-49-2	Selenium (Se)	6.0	mg/kg		1.0	5,100	
IP03 15-17FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP03 15-17FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		3.3	99	
IP03 15-17FT	88-75-5	2 - Nitrophenol	ND	mg/kg		3.3	no value	
IP03 15-17FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.33	82,000	
IP03 15-17FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		3.3	12,000	
IP03 15-17FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		3.3	14	
IP03 15-17FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		3.3	160	
IP03 15-17FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		3.3	1,800	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP03 15-17FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		3.3	1,200	
IP03 15-17FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		3.3	620	
IP03 15-17FT	95-57-8	2-Chlorophenol	ND	mg/kg		3.3	5,100	
IP03 15-17FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		3.3	3.8	
IP03 15-17FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		3.3	49	
IP03 15-17FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		3.3	no value	
IP03 15-17FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		3.3	no value	
IP03 15-17FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		3.3	no value	
IP03 15-17FT	100-02-7	4-Nitrophenol	ND	mg/kg		3.3	no value	
IP03 15-17FT	83-32-9	Acenaphthene	ND	mg/kg		0.33	33,000	
IP03 15-17FT	208-96-8	Acenaphthylene	ND	mg/kg		0.33	no value	
IP03 15-17FT	120-12-7	Anthracene	ND	mg/kg		0.33	170,000	
IP03 15-17FT	92-87-5	Benzidine	ND	mg/kg		3.3	no value	
IP03 15-17FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.33	2.1	
IP03 15-17FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.33	0.21	**Y**
IP03 15-17FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.33	2.1	
IP03 15-17FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.33	pending	
IP03 15-17FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.33	210	
IP03 15-17FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		3.3	1	
IP03 15-17FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		3.3	22	
IP03 15-17FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		3.3	120	
IP03 15-17FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		3.3	1,800	
IP03 15-17FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		3.3	910	
IP03 15-17FT	218-01-9	Chrysene	ND	mg/kg		0.33	210	
IP03 15-17FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.33	0.21	
IP03 15-17FT	84-66-2	Diethylphthalate	ND	mg/kg		3.3	490,000	
IP03 15-17FT	131-11-3	Dimethyl phthalate	ND	mg/kg		3.3	no value	
IP03 15-17FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		3.3	62,000	
IP03 15-17FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		3.3	7,400	
IP03 15-17FT	206-44-0	Fluoranthene	ND	mg/kg		0.33	220,000	
IP03 15-17FT	86-73-7	Fluorene	ND	mg/kg		0.33	220,000	
IP03 15-17FT	118-74-1	Hexachlorobenzene	ND	mg/kg		3.3	1,200	**Y**
IP03 15-17FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		3.3	22	
IP03 15-17FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		3.3	3,700	
IP03 15-17FT	67-72-1	Hexachloroethane	ND	mg/kg		3.3	43	
IP03 15-17FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.33	2.1	
IP03 15-17FT	78-59-1	Isophorone	ND	mg/kg		3.3	no value	
IP03 15-17FT	91-20-3	Naphthalene	ND	mg/kg		0.33	18	
IP03 15-17FT	98-95-3	Nitrobenzene	ND	mg/kg		3.3	24	
IP03 15-17FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		3.3	0.034	**Y**
IP03 15-17FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		3.3	0.25	**Y**
IP03 15-17FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		3.3	350	
IP03 15-17FT	87-86-5	Pentachlorophenol	ND	mg/kg		3.3	4.3	
IP03 15-17FT	85-01-8	Phenanthrene	ND	mg/kg		0.33	no value	
IP03 15-17FT	108-95-2	Phenol	ND	mg/kg		3.3	180000	
IP03 15-17FT	129-00-0	Pyrene	ND	mg/kg		0.33	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP04 0-2FT	7439-97-6	Mercury (Hg)	0.35	mg/kg		0.020	0.31	
IP04 0-2FT	7440-38-2	Arsenic (As)	29.0	mg/kg		1.0	1.6	**Y**
IP04 0-2FT	7440-39-3	Barium (Ba)	200	mg/kg		0.25	190,000	
IP04 0-2FT	7440-43-9	Cadmium (Cd)	10	mg/kg		0.25	800	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP04 0-2FT	16065-83-1	Chromium (Cr)	7.9	mg/kg		0.50	1,500,000	
IP04 0-2FT	7439-92-1	Lead (Pb)	340	mg/kg		0.25	800	
IP04 0-2FT	7782-49-2	Selenium (Se)	12	mg/kg		1.0	5,100	
IP04 0-2FT	7440-22-4	Silver (Ag)	1.8	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP04 0-2FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		3.3	99	
IP04 0-2FT	88-75-5	2 - Nitrophenol	ND	mg/kg		3.3	no value	
IP04 0-2FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.33	82,000	
IP04 0-2FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		3.3	12,000	
IP04 0-2FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		3.3	14	
IP04 0-2FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		3.3	160	
IP04 0-2FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		3.3	1,800	
IP04 0-2FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		3.3	1,200	
IP04 0-2FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		3.3	620	
IP04 0-2FT	95-57-8	2-Chlorophenol	ND	mg/kg		3.3	5,100	
IP04 0-2FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		3.3	3.8	
IP04 0-2FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		3.3	49	
IP04 0-2FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		3.3	no value	
IP04 0-2FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		3.3	no value	
IP04 0-2FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		3.3	no value	
IP04 0-2FT	100-02-7	4-Nitrophenol	ND	mg/kg		3.3	no value	
IP04 0-2FT	83-32-9	Acenaphthene	ND	mg/kg		0.33	33,000	
IP04 0-2FT	208-96-8	Acenaphthylene	ND	mg/kg		0.33	no value	
IP04 0-2FT	120-12-7	Anthracene	ND	mg/kg		0.33	170,000	
IP04 0-2FT	92-87-5	Benzidine	ND	mg/kg		3.3	no value	
IP04 0-2FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.33	2.1	
IP04 0-2FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.33	0.21	**Y**
IP04 0-2FT	205-99-2	Benzo[b]fluoranthene	0.44	mg/kg		0.33	2.1	
IP04 0-2FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.33	pending	
IP04 0-2FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.33	210	
IP04 0-2FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		3.3	1	
IP04 0-2FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		3.3	22	
IP04 0-2FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		3.3	120	
IP04 0-2FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		3.3	1,800	
IP04 0-2FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		3.3	910	
IP04 0-2FT	218-01-9	Chrysene	0.43	mg/kg		0.33	210	
IP04 0-2FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.33	0.21	
IP04 0-2FT	84-66-2	Diethylphthalate	ND	mg/kg		3.3	490,000	
IP04 0-2FT	131-11-3	Dimethyl phthalate	ND	mg/kg		3.3	no value	
IP04 0-2FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		3.3	62,000	
IP04 0-2FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		3.3	7,400	
IP04 0-2FT	206-44-0	Fluoranthene	0.43	mg/kg		0.33	220,000	
IP04 0-2FT	86-73-7	Fluorene	ND	mg/kg		0.33	220,000	
IP04 0-2FT	118-74-1	Hexachlorobenzene	ND	mg/kg		3.3	1,200	**Y**
IP04 0-2FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		3.3	22	
IP04 0-2FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		3.3	3,700	
IP04 0-2FT	67-72-1	Hexachloroethane	ND	mg/kg		3.3	43	
IP04 0-2FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.33	2.1	
IP04 0-2FT	78-59-1	Isophorone	ND	mg/kg		3.3	no value	
IP04 0-2FT	91-20-3	Naphthalene	ND	mg/kg		0.33	18	
IP04 0-2FT	98-95-3	Nitrobenzene	ND	mg/kg		3.3	24	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP04 0-2FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		3.3	0.034	Y
IP04 0-2FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		3.3	0.25	Y
IP04 0-2FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		3.3	350	
IP04 0-2FT	87-86-5	Pentachlorophenol	ND	mg/kg		3.3	4.3	
IP04 0-2FT	85-01-8	Phenanthrene	0.62	mg/kg		0.33	no value	
IP04 0-2FT	108-95-2	Phenol	ND	mg/kg		3.3	180000	
IP04 0-2FT	129-00-0	Pyrene	0.41	mg/kg		0.33	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP04 5-7FT	7439-97-6	Mercury (Hg)	0.054	mg/kg		0.020	0.31	
IP04 5-7FT	7440-38-2	Arsenic (As)	34	mg/kg		1.0	1.6	Y
IP04 5-7FT	7440-39-3	Barium (Ba)	340	mg/kg		0.25	190,000	
IP04 5-7FT	7440-43-9	Cadmium (Cd)	6.8	mg/kg		0.25	800	
IP04 5-7FT	16065-83-1	Chromium (Cr)	16	mg/kg		0.50	1,500,000	
IP04 5-7FT	7439-92-1	Lead (Pb)	270	mg/kg		0.25	800	
IP04 5-7FT	7782-49-2	Selenium (Se)	14	mg/kg		1.0	5,100	
IP04 5-7FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP04 5-7FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP04 5-7FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP04 5-7FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP04 5-7FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	
IP04 5-7FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP04 5-7FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP04 5-7FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP04 5-7FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP04 5-7FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP04 5-7FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	
IP04 5-7FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP04 5-7FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP04 5-7FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP04 5-7FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP04 5-7FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP04 5-7FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP04 5-7FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP04 5-7FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP04 5-7FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	
IP04 5-7FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP04 5-7FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.033	2.1	
IP04 5-7FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.033	0.21	
IP04 5-7FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.033	2.1	
IP04 5-7FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP04 5-7FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP04 5-7FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP04 5-7FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP04 5-7FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP04 5-7FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP04 5-7FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP04 5-7FT	218-01-9	Chrysene	0.074	mg/kg		0.033	210	
IP04 5-7FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP04 5-7FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP04 5-7FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP04 5-7FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP04 5-7FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP04 5-7FT	206-44-0	Fluoranthene	ND	mg/kg		0.033	220,000	
IP04 5-7FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP04 5-7FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP04 5-7FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP04 5-7FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP04 5-7FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP04 5-7FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	
IP04 5-7FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP04 5-7FT	91-20-3	Naphthalene	ND	mg/kg		0.033	18	
IP04 5-7FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP04 5-7FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	**Y**
IP04 5-7FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	**Y**
IP04 5-7FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP04 5-7FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP04 5-7FT	85-01-8	Phenanthrene	0.038	mg/kg		0.033	no value	
IP04 5-7FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP04 5-7FT	129-00-0	Pyrene	0.043	mg/kg		0.033	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP04 10-12FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
IP04 10-12FT	7440-38-2	Arsenic (As)	1.5	mg/kg		1.0	1.6	
IP04 10-12FT	7440-39-3	Barium (Ba)	61	mg/kg		0.25	190,000	
IP04 10-12FT	7440-43-9	Cadmium (Cd)	ND	mg/kg		0.25	800	
IP04 10-12FT	16065-83-1	Chromium (Cr)	6.5	mg/kg		0.50	1,500,000	
IP04 10-12FT	7439-92-1	Lead (Pb)	13	mg/kg		0.25	800	
IP04 10-12FT	7782-49-2	Selenium (Se)	1.6	mg/kg		1.0	5,100	
IP04 10-12FT	7440-22-4	Silver (Ag)	ND	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP04 10-12FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP04 10-12FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP04 10-12FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP04 10-12FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	
IP04 10-12FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP04 10-12FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP04 10-12FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP04 10-12FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP04 10-12FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP04 10-12FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	
IP04 10-12FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP04 10-12FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP04 10-12FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP04 10-12FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP04 10-12FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP04 10-12FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP04 10-12FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP04 10-12FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP04 10-12FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	
IP04 10-12FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP04 10-12FT	56-55-3	Benzo[a]anthracene	ND	mg/kg		0.033	2.1	
IP04 10-12FT	50-32-8	Benzo[a]pyrene	ND	mg/kg		0.033	0.21	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP04 10-12FT	205-99-2	Benzo[b]fluoranthene	ND	mg/kg		0.033	2.1	
IP04 10-12FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP04 10-12FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP04 10-12FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP04 10-12FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP04 10-12FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP04 10-12FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP04 10-12FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP04 10-12FT	218-01-9	Chrysene	ND	mg/kg		0.033	210	
IP04 10-12FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP04 10-12FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP04 10-12FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	
IP04 10-12FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP04 10-12FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP04 10-12FT	206-44-0	Fluoranthene	ND	mg/kg		0.033	220,000	
IP04 10-12FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP04 10-12FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP04 10-12FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP04 10-12FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP04 10-12FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP04 10-12FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	
IP04 10-12FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP04 10-12FT	91-20-3	Naphthalene	ND	mg/kg		0.033	18	
IP04 10-12FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP04 10-12FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	Y
IP04 10-12FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	Y
IP04 10-12FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP04 10-12FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP04 10-12FT	85-01-8	Phenanthrene	ND	mg/kg		0.033	no value	
IP04 10-12FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP04 10-12FT	129-00-0	Pyrene	ND	mg/kg		0.033	17,000	
Metals Via USA EPA Method 6010B and 7471A								
IP04 15-17FT	7439-97-6	Mercury (Hg)	ND	mg/kg		0.020	0.31	
IP04 15-17FT	7440-38-2	Arsenic (As)	28	mg/kg		1.0	1.6	Y
IP04 15-17FT	7440-39-3	Barium (Ba)	320	mg/kg		0.25	190,000	
IP04 15-17FT	7440-43-9	Cadmium (Cd)	6.0	mg/kg		0.25	800	
IP04 15-17FT	16065-83-1	Chromium (Cr)	13	mg/kg		0.50	1,500,000	
IP04 15-17FT	7439-92-1	Lead (Pb)	430	mg/kg		0.25	800	
IP04 15-17FT	7782-49-2	Selenium (Se)	8.5	mg/kg		1.0	5,100	
IP04 15-17FT	7440-22-4	Silver (Ag)	1.2	mg/kg		0.50	5,100	
Base Neutral/ Acid Extractable Compounds via USA EPA Method 8270C								
IP04 15-17FT	120-82-1	1,2,4-trichlorobenzene	ND	mg/kg		0.33	99	
IP04 15-17FT	88-75-5	2 - Nitrophenol	ND	mg/kg		0.33	no value	
IP04 15-17FT	91-58-7	2- Chloronaphthalene	ND	mg/kg		0.033	82,000	
IP04 15-17FT	105-67-9	2,4 - Dimethylphenol	ND	mg/kg		0.33	12,000	
IP04 15-17FT	121-14-2	2,4 - Dinitrotoluene	ND	mg/kg		0.33	14	
IP04 15-17FT	88-06-2	2,4,6 - Trichlorophenol	ND	mg/kg		0.33	160	
IP04 15-17FT	120-83-2	2,4-Dichlorophenol	ND	mg/kg		0.33	1,800	
IP04 15-17FT	51-28-5	2,4-Dinitrophenol	ND	mg/kg		0.33	1,200	
IP04 15-17FT	606-20-2	2,6- Dinitrotoluene	ND	mg/kg		0.33	620	
IP04 15-17FT	95-57-8	2-Chlorophenol	ND	mg/kg		0.33	5,100	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
IP04 15-17FT	91-94-1	3,3'-Dichlorobenzidine	ND	mg/kg		0.33	3.8	
IP04 15-17FT	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/kg		0.33	49	
IP04 15-17FT	101-55-3	4-Bromophenyl phenyl ether	ND	mg/kg		0.33	no value	
IP04 15-17FT	59-50-7	4-chloro-3-methyl-phenol	ND	mg/kg		0.33	no value	
IP04 15-17FT	7005-72-3	4-Chlorodiphenylether	ND	mg/kg		0.33	no value	
IP04 15-17FT	100-02-7	4-Nitrophenol	ND	mg/kg		0.33	no value	
IP04 15-17FT	83-32-9	Acenaphthene	ND	mg/kg		0.033	33,000	
IP04 15-17FT	208-96-8	Acenaphthylene	ND	mg/kg		0.033	no value	
IP04 15-17FT	120-12-7	Anthracene	ND	mg/kg		0.033	170,000	
IP04 15-17FT	92-87-5	Benzidine	ND	mg/kg		0.33	no value	
IP04 15-17FT	56-55-3	Benzo[a]anthracene	0.05	mg/kg		0.033	2.1	
IP04 15-17FT	50-32-8	Benzo[a]pyrene	0.047	mg/kg		0.033	0.21	
IP04 15-17FT	205-99-2	Benzo[b]fluoranthene	0.092	mg/kg		0.033	2.1	
IP04 15-17FT	191-24-2	Benzo[g,h,i]perylene	ND	mg/kg		0.033	pending	
IP04 15-17FT	207-08-9	Benzo[k]fluoranthene	ND	mg/kg		0.033	210	
IP04 15-17FT	111-44-4	Bis (2-chloroethyl) ether	ND	mg/kg		0.33	1	
IP04 15-17FT	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/kg		0.33	22	
IP04 15-17FT	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/kg		0.33	120	
IP04 15-17FT	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/kg		0.33	1,800	
IP04 15-17FT	85-68-7	Butyl benzyl phthalate	ND	mg/kg		0.33	910	
IP04 15-17FT	218-01-9	Chrysene	0.088	mg/kg		0.033	210	
IP04 15-17FT	53-70-3	Dibenzo(a,h)anthracene	ND	mg/kg		0.033	0.21	
IP04 15-17FT	84-66-2	Diethylphthalate	ND	mg/kg		0.33	490,000	
IP04 15-17FT	131-11-3	Dimethyl phthalate	ND	mg/kg		0.33	no value	
IP04 15-17FT	84-74-2	Di-n-butyl phthalate	ND	mg/kg		0.33	62,000	
IP04 15-17FT	117-84-0	Di-n-Octyl phthalate	ND	mg/kg		0.33	7,400	
IP04 15-17FT	206-44-0	Fluoranthene	0.11	mg/kg		0.033	220,000	
IP04 15-17FT	86-73-7	Fluorene	ND	mg/kg		0.033	220,000	
IP04 15-17FT	118-74-1	Hexachlorobenzene	ND	mg/kg		0.33	1,200	
IP04 15-17FT	87-68-3	Hexachlorobutadiene	ND	mg/kg		0.33	22	
IP04 15-17FT	77-47-4	Hexachlorocyclopentadiene	ND	mg/kg		0.33	3,700	
IP04 15-17FT	67-72-1	Hexachloroethane	ND	mg/kg		0.33	43	
IP04 15-17FT	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/kg		0.033	2.1	
IP04 15-17FT	78-59-1	Isophorone	ND	mg/kg		0.33	no value	
IP04 15-17FT	91-20-3	Naphthalene	0.041	mg/kg		0.033	18	
IP04 15-17FT	98-95-3	Nitrobenzene	ND	mg/kg		0.33	24	
IP04 15-17FT	62-75-9	N-Nitrosodimethylamine	ND	mg/kg		0.33	0.034	**Y**
IP04 15-17FT	621-64-7	N-nitrosodi-n-propylamine	ND	mg/kg		0.33	0.25	**Y**
IP04 15-17FT	86-30-6	N-Nitrosodiphenylamine	ND	mg/kg		0.33	350	
IP04 15-17FT	87-86-5	Pentachlorophenol	ND	mg/kg		0.33	4.3	
IP04 15-17FT	85-01-8	Phenanthrene	0.079	mg/kg		0.033	no value	
IP04 15-17FT	108-95-2	Phenol	ND	mg/kg		0.33	180000	
IP04 15-17FT	129-00-0	Pyrene	0.095	mg/kg		0.033	17,000	

e (USEPA Region 3) most stringent level used

Table 14. Results of Laboratory Analysis of Soil Samples Collected at Rock Wool Property

Rock Wool Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Metals Via USA EPA Method 6010B and 7471A								
RW01-2 FT	7439-97-6	Mercury	0.059	mg/kg		0.02	310	
RW01-2 FT	7440-38-2	Arsenic	18	mg/kg		1	1.6	Y
RW01-2 FT	7440-39-3	Barium	570	mg/kg		0.25	190,000	
RW01-2 FT	7440-43-9	Cadmium	0.39	mg/kg		0.25	800	
RW01-2 FT	16065-83-1	Chromium	11	mg/kg		0.5	1,500,000	
RW01-2 FT	7439-92-1	Lead	430	mg/kg		0.25	800	
RW01-2 FT	7782-49-2	Selenium	2.1	mg/kg		1	5,100	
RW01-2 FT	7440-22-4	Silver	1.3	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW01-7 FT	7439-97-6	Mercury	0.042	mg/kg		0.02	310	
RW01-7 FT	7440-38-2	Arsenic	19	mg/kg		1	1.6	Y
RW01-7 FT	7440-39-3	Barium	520	mg/kg		0.25	190,000	
RW01-7 FT	7440-43-9	Cadmium	0.62	mg/kg		0.25	800	
RW01-7 FT	16065-83-1	Chromium	10	mg/kg		0.5	1,500,000	
RW01-7 FT	7439-92-1	Lead	420	mg/kg		0.25	800	
RW01-7 FT	7782-49-2	Selenium	ND	mg/kg		1	5,100	
RW01-7 FT	7440-22-4	Silver	2.6	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW02-2 FT	7439-97-6	Mercury	0.029	mg/kg		0.02	310	
RW02-2 FT	7440-38-2	Arsenic	13	mg/kg		1	1.6	Y
RW02-2 FT	7440-39-3	Barium	360	mg/kg		0.25	190,000	
RW02-2 FT	7440-43-9	Cadmium	0.61	mg/kg		0.25	800	
RW02-2 FT	16065-83-1	Chromium	9.8	mg/kg		0.5	1,500,000	
RW02-2 FT	7439-92-1	Lead	250	mg/kg		0.25	800	
RW02-2 FT	7782-49-2	Selenium	2.7	mg/kg		1	5,100	
RW02-2 FT	7440-22-4	Silver	ND	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW02-9 FT	7439-97-6	Mercury	0.027	mg/kg		0.02	310	
RW02-9 FT	7440-38-2	Arsenic	4	mg/kg		1	1.6	Y
RW02-9 FT	7440-39-3	Barium	92	mg/kg		0.25	190,000	
RW02-9 FT	7440-43-9	Cadmium	ND	mg/kg		0.25	800	
RW02-9 FT	16065-83-1	Chromium	8.4	mg/kg		0.5	1,500,000	
RW02-9 FT	7439-92-1	Lead	51	mg/kg		0.25	800	
RW02-9 FT	7782-49-2	Selenium	1.5	mg/kg		1	5,100	
RW02-9 FT	7440-22-4	Silver	ND	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW03-2 FT	7439-97-6	Mercury	0.14	mg/kg		0.02	310	
RW03-2 FT	7440-38-2	Arsenic	31	mg/kg		1	1.6	Y
RW03-2 FT	7440-39-3	Barium	2300	mg/kg		0.25	190,000	
RW03-2 FT	7440-43-9	Cadmium	ND	mg/kg		0.25	800	
RW03-2 FT	16065-83-1	Chromium	15	mg/kg		0.5	1,500,000	
RW03-2 FT	7439-92-1	Lead	1400	mg/kg		0.25	800	Y
RW03-2 FT	7782-49-2	Selenium	8.7	mg/kg		1	5,100	
RW03-2 FT	7440-22-4	Silver	10	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW03-9 FT	7439-97-6	Mercury	0.25	mg/kg		0.02	0.31	

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
RW03-9 FT	7440-38-2	Arsenic	63	mg/kg		1	1.6	Y
RW03-9 FT	7440-39-3	Barium	2100	mg/kg		0.25	190,000	
RW03-9 FT	7440-43-9	Cadmium	ND	mg/kg		0.25	800	
RW03-9 FT	16065-83-1	Chromium	20	mg/kg		0.5	1,500,000	
RW03-9 FT	7439-92-1	Lead	2000	mg/kg		0.25	800	Y
RW03-9 FT	7782-49-2	Selenium	7.5	mg/kg		1	5,100	
RW03-9 FT	7440-22-4	Silver	13	mg/kg		0.5	5,100	
Metals Via USA EPA Method 6010B and 7471A								
RW04(5-6)	7440-38-2	Arsenic	6	mg/Kg		1.8	1.6	Y
RW04(5-6)	7440-39-3	Barium	98	mg/Kg		0.88	190,000	
RW04(5-6)	7440-43-9	Cadmium	0.71	mg/Kg		0.44	800	
RW04(5-6)	7440-47-3	Chromium	11	mg/Kg		1.3	1,500,000	
RW04(5-6)	7439-92-1	Lead	59	mg/Kg		0.71	800	
RW04(5-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
RW04(5-6)	7440-22-4	Silver	0.45	mg/Kg	J	0.88	5,100	
RW04(5-6)	7439-97-6	Mercury	350	ug/Kg		86	310	
Metals Via USA EPA Method 6010B and 7471A								
RW04(9-10)	7440-38-2	Arsenic	8.9	mg/Kg		1.9	1.6	Y
RW04(9-10)	7440-39-3	Barium	160	mg/Kg		0.94	190,000	
RW04(9-10)	7440-43-9	Cadmium	1.3	mg/Kg		0.47	800	
RW04(9-10)	7440-47-3	Chromium	15	mg/Kg		1.4	1,500,000	
RW04(9-10)	7439-92-1	Lead	200	mg/Kg		0.75	800	
RW04(9-10)	7782-49-2	Selenium	0.96	mg/Kg	J	1.2	5,100	
RW04(9-10)	7440-22-4	Silver	1.8	mg/Kg		0.94	5,100	
RW04(9-10)	7439-97-6	Mercury	1700	ug/Kg		170	310	
Metals Via USA EPA Method 6010B and 7471A								
RW05(4-5)	7440-38-2	Arsenic	35	mg/Kg		1.9	1.6	Y
RW05(4-5)	7440-39-3	Barium	2700	mg/Kg		0.93	190,000	
RW05(4-5)	7440-43-9	Cadmium	1.4	mg/Kg		0.47	800	
RW05(4-5)	7440-47-3	Chromium	20	mg/Kg		1.4	1,500,000	
RW05(4-5)	7439-92-1	Lead	1700	mg/Kg		0.75	800	Y
RW05(4-5)	7782-49-2	Selenium	ND	mg/Kg		30	5,100	
RW05(4-5)	7440-22-4	Silver	12	mg/Kg		0.93	5,100	
RW05(4-5)	7439-97-6	Mercury	37	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
RW05(9-10)	7440-38-2	Arsenic	40	mg/Kg		1.8	1.6	Y
RW05(9-10)	7440-39-3	Barium	10000	mg/Kg	J	0.46	190,000	
RW05(9-10)	7440-43-9	Cadmium	0.33	mg/Kg		1.4	800	
RW05(9-10)	7440-47-3	Chromium	12	mg/Kg		0.73	1,500,000	
RW05(9-10)	7439-92-1	Lead	2400	mg/Kg		0.92	800	Y
RW05(9-10)	7782-49-2	Selenium	ND	mg/Kg		30	5,100	
RW05(9-10)	7440-22-4	Silver	24	mg/Kg		23	5,100	
RW05(9-10)	7439-97-6	Mercury	16	ug/Kg		16	310	

lue (USEPA Region 3) most stringent level used

Table 15. Results of Laboratory Analysis of Soil Samples Collected at West Hill Property

West Hill Soil Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No	Compound	Results	Units	Flag	Rpt Lmt	Industrial Screening Level	
Metals Via USA EPA Method 6010B and 7471A								
WH01(5-6)	7440-38-2	Arsenic	11	mg/Kg		1.9	1.6	Y
WH01(5-6)	7440-39-3	Barium	180	mg/Kg		0.93	190,000	
WH01(5-6)	7440-43-9	Cadmium	1	mg/Kg		0.47	800	
WH01(5-6)	7440-47-3	Chromium	18	mg/Kg		1.4	1,500,000	
WH01(5-6)	7439-92-1	Lead	490	mg/Kg		0.75	800	
WH01(5-6)	7782-49-2	Selenium	0.99	mg/Kg	J	1.2	5,100	
WH01(5-6)	7440-22-4	Silver	0.24	mg/Kg	J	0.93	5,100	
WH01(5-6)	7439-97-6	Mercury	140	ug/Kg		18	310	
Metals Via USA EPA Method 6010B and 7471A								
WH01(9-10)	7440-38-2	Arsenic	14	mg/Kg		1.7	1.6	Y
WH01(9-10)	7440-39-3	Barium	1300	mg/Kg		0.84	190,000	
WH01(9-10)	7440-43-9	Cadmium	1.8	mg/Kg		0.42	800	
WH01(9-10)	7440-47-3	Chromium	12	mg/Kg		1.3	1,500,000	
WH01(9-10)	7439-92-1	Lead	410	mg/Kg		0.67	800	
WH01(9-10)	7782-49-2	Selenium	ND	mg/Kg		0.84	5,100	
WH01(9-10)	7440-22-4	Silver	2.3	mg/Kg		5.5	5,100	
WH01(9-10)	7439-97-6	Mercury	50	ug/Kg		18	310	
Metals Via USA EPA Method 6010B and 7471A								
WH02(5-6)	7440-38-2	Arsenic	5.7	mg/Kg		1.8	1.6	Y
WH02(5-6)	7440-39-3	Barium	140	mg/Kg		0.9	190,000	
WH02(5-6)	7440-43-9	Cadmium	0.71	mg/Kg		0.45	800	
WH02(5-6)	7440-47-3	Chromium	9	mg/Kg		1.4	1,500,000	
WH02(5-6)	7439-92-1	Lead	100	mg/Kg		0.72	800	
WH02(5-6)	7782-49-2	Selenium	ND	mg/Kg		1.2	5,100	
WH02(5-6)	7440-22-4	Silver	ND	mg/Kg		0.9	5,100	
WH02(5-6)	7439-97-6	Mercury	69	ug/Kg		17	310	
Metals Via USA EPA Method 6010B and 7471A								
WH03(5-6)	7440-38-2	Arsenic	9.1	mg/Kg		1.8	1.6	Y
WH03(5-6)	7440-39-3	Barium	170	mg/Kg		0.88	190,000	
WH03(5-6)	7440-43-9	Cadmium	1.4	mg/Kg		0.44	800	
WH03(5-6)	7440-47-3	Chromium	12	mg/Kg		1.3	1,500,000	
WH03(5-6)	7439-92-1	Lead	270	mg/Kg		0.71	800	
WH03(5-6)	7782-49-2	Selenium	1	mg/Kg	J	1.2	5,100	
WH03(5-6)	7440-22-4	Silver	0.19	mg/Kg	J	0.88	5,100	
WH03(5-6)	7439-97-6	Mercury	150	ug/Kg		16	310	
Metals Via USA EPA Method 6010B and 7471A								
WH03(9-10)	7440-38-2	Arsenic	9.2	mg/Kg		1.7	1.6	Y
WH03(9-10)	7440-39-3	Barium	600	mg/Kg		0.87	190,000	
WH03(9-10)	7440-43-9	Cadmium	0.73	mg/Kg		0.43	800	
WH03(9-10)	7440-47-3	Chromium	6.8	mg/Kg		1.3	1,500,000	
WH03(9-10)	7439-92-1	Lead	520	mg/Kg		0.7	800	
WH03(9-10)	7782-49-2	Selenium	ND	mg/Kg		5.7	5,100	
WH03(9-10)	7440-22-4	Silver	0.89	mg/Kg		0.87	5,100	
WH03(9-10)	7439-97-6	Mercury	8.4	ug/Kg	J	20	310	

lue (USEPA Region 3) most stringent level used

Table 16. Results of Laboratory Analysis of Groundwater Samples Collected at Wagner Rental Property

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
BVMW2	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
BVMW2	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
BVMW2	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
BVMW2	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
BVMW2	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
BVMW2	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
BVMW2	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
BVMW2	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
BVMW2	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
BVMW2	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
BVMW2	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
BVMW2	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
BVMW2	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
BVMW2	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
BVMW2	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
BVMW2	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
BVMW2	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
BVMW2	591-78-6	2-Hexanone	ND	ug/L		5		
BVMW2	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
BVMW2	67-64-1	Acetone	3.9	ug/L	J	10	6,300	
BVMW2	71-43-2	Benzene	ND	ug/L		1	5	
BVMW2	75-25-2	Bromoform	ND	ug/L		1	4	
BVMW2	74-83-9	Bromomethane	ND	ug/L		2		
BVMW2	75-15-0	Carbon disulfide	ND	ug/L		2		
BVMW2	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
BVMW2	108-90-7	Chlorobenzene	ND	ug/L		1	100	
BVMW2	74-97-5	Chlorobromomethane	ND	ug/L		1		
BVMW2	124-48-1	Chlorodibromomethane	ND	ug/L		1		
BVMW2	75-00-3	Chloroethane	ND	ug/L		2		
BVMW2	67-66-3	Chloroform	ND	ug/L		1		
BVMW2	74-87-3	Chloromethane	ND	ug/L		2		
BVMW2	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
BVMW2	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
BVMW2	110-82-7	Cyclohexane	ND	ug/L		2		
BVMW2	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
BVMW2	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
BVMW2	100-41-4	Ethylbenzene	ND	ug/L		1	700	
BVMW2	98-82-8	Isopropylbenzene	ND	ug/L		1		
BVMW2	79-20-9	Methyl acetate	ND	ug/L		5		
BVMW2	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
BVMW2	108-87-2	Methylcyclohexane	ND	ug/L		1		
BVMW2	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
BVMW2	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
BVMW2	95-47-6	o-Xylene	ND	ug/L		1		
BVMW2	100-42-5	Styrene	ND	ug/L		1		
BVMW2	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
BVMW2	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
BVMW2	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
BVMW2	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
BVMW2	79-01-6	Trichloroethene	ND	ug/L		1	5	
BVMW2	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
BVMW2	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
BVMW2	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW1	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW1	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW1	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW1	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW1	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW1	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW1	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW1	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW1	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW1	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW1	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW1	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW1	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW1	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW1	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW1	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW1	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW1	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW1	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW1	67-64-1	Acetone	5.9	ug/L	J	10	6,300	
WAMW1	71-43-2	Benzene	ND	ug/L		1	5	
WAMW1	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW1	74-83-9	Bromomethane	ND	ug/L		2		
WAMW1	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW1	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW1	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW1	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW1	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW1	75-00-3	Chloroethane	ND	ug/L		2		
WAMW1	67-66-3	Chloroform	ND	ug/L		1		
WAMW1	74-87-3	Chloromethane	ND	ug/L		2		
WAMW1	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW1	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW1	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW1	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW1	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW1	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW1	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW1	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW1	1634-04-4	Methyl tert-butyl ether	0.25	ug/L	J	5		
WAMW1	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW1	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW1	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW1	95-47-6	o-Xylene	ND	ug/L		1		
WAMW1	100-42-5	Styrene	ND	ug/L		1		
WAMW1	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW1	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW1	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW1	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW1	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW1	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW1	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW1	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW2	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW2	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW2	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW2	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW2	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW2	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW2	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW2	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW2	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW2	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW2	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW2	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW2	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW2	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW2	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW2	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW2	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW2	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW2	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW2	67-64-1	Acetone	ND	ug/L		10	6,300	
WAMW2	71-43-2	Benzene	ND	ug/L		1	5	
WAMW2	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW2	74-83-9	Bromomethane	ND	ug/L		2		
WAMW2	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW2	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW2	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW2	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW2	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW2	75-00-3	Chloroethane	ND	ug/L		2		
WAMW2	67-66-3	Chloroform	ND	ug/L		1		
WAMW2	74-87-3	Chloromethane	ND	ug/L		2		
WAMW2	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW2	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW2	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW2	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW2	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW2	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW2	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW2	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW2	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW2	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW2	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW2	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW2	95-47-6	o-Xylene	ND	ug/L		1		
WAMW2	100-42-5	Styrene	ND	ug/L		1		
WAMW2	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW2	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW2	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW2	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW2	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW2	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW2	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW2	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW3	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW3	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW3	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW3	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW3	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW3	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW3	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW3	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW3	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW3	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW3	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW3	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW3	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW3	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW3	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW3	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW3	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW3	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW3	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW3	67-64-1	Acetone	3.8	ug/L	J	10	6,300	
WAMW3	71-43-2	Benzene	ND	ug/L		1	5	
WAMW3	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW3	74-83-9	Bromomethane	ND	ug/L		2		
WAMW3	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW3	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW3	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW3	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW3	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW3	75-00-3	Chloroethane	ND	ug/L		2		
WAMW3	67-66-3	Chloroform	ND	ug/L		1		
WAMW3	74-87-3	Chloromethane	ND	ug/L		2		
WAMW3	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW3	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW3	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW3	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW3	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW3	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW3	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW3	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW3	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW3	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW3	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW3	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW3	95-47-6	o-Xylene	ND	ug/L		1		
WAMW3	100-42-5	Styrene	ND	ug/L		1		
WAMW3	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW3	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW3	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW3	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW3	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW3	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW3	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW3	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW1D	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW1D	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW1D	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW1D	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW1D	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW1D	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW1D	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW1D	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW1D	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW1D	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW1D	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW1D	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW1D	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW1D	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW1D	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW1D	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW1D	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW1D	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW1D	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW1D	67-64-1	Acetone	5.8	ug/L	J	10	6,300	
WAMW1D	71-43-2	Benzene	ND	ug/L		1	5	
WAMW1D	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW1D	74-83-9	Bromomethane	ND	ug/L		2		
WAMW1D	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW1D	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW1D	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW1D	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW1D	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW1D	75-00-3	Chloroethane	ND	ug/L		2		
WAMW1D	67-66-3	Chloroform	ND	ug/L		1		
WAMW1D	74-87-3	Chloromethane	ND	ug/L		2		
WAMW1D	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW1D	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW1D	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW1D	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW1D	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW1D	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW1D	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW1D	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW1D	1634-04-4	Methyl tert-butyl ether	0.27	ug/L	J	5		
WAMW1D	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW1D	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW1D	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW1D	95-47-6	o-Xylene	ND	ug/L		1		
WAMW1D	100-42-5	Styrene	ND	ug/L		1		
WAMW1D	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW1D	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW1D	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW1D	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW1D	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW1D	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW1D	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW1D	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Wagner Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Volatile Organic Compounds Via USA EPA Method 8260B								
TRIP BLANK	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
TRIP BLANK	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
TRIP BLANK	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
TRIP BLANK	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
TRIP BLANK	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
TRIP BLANK	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
TRIP BLANK	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
TRIP BLANK	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
TRIP BLANK	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
TRIP BLANK	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
TRIP BLANK	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
TRIP BLANK	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
TRIP BLANK	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
TRIP BLANK	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
TRIP BLANK	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
TRIP BLANK	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
TRIP BLANK	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
TRIP BLANK	591-78-6	2-Hexanone	ND	ug/L		5		
TRIP BLANK	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
TRIP BLANK	67-64-1	Acetone	ND	ug/L		10	6,300	
TRIP BLANK	71-43-2	Benzene	ND	ug/L		1	5	
TRIP BLANK	75-25-2	Bromoform	ND	ug/L		1	4	
TRIP BLANK	74-83-9	Bromomethane	ND	ug/L		2		
TRIP BLANK	75-15-0	Carbon disulfide	ND	ug/L		2		
TRIP BLANK	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
TRIP BLANK	108-90-7	Chlorobenzene	ND	ug/L		1	100	
TRIP BLANK	74-97-5	Chlorobromomethane	ND	ug/L		1		
TRIP BLANK	124-48-1	Chlorodibromomethane	ND	ug/L		1		
TRIP BLANK	75-00-3	Chloroethane	ND	ug/L		2		
TRIP BLANK	67-66-3	Chloroform	ND	ug/L		1		
TRIP BLANK	74-87-3	Chloromethane	ND	ug/L		2		
TRIP BLANK	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
TRIP BLANK	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
TRIP BLANK	110-82-7	Cyclohexane	ND	ug/L		2		
TRIP BLANK	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
TRIP BLANK	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
TRIP BLANK	100-41-4	Ethylbenzene	ND	ug/L		1	700	
TRIP BLANK	98-82-8	Isopropylbenzene	ND	ug/L		1		
TRIP BLANK	79-20-9	Methyl acetate	ND	ug/L		5		
TRIP BLANK	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
TRIP BLANK	108-87-2	Methylcyclohexane	ND	ug/L		1		
TRIP BLANK	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
TRIP BLANK	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
TRIP BLANK	95-47-6	o-Xylene	ND	ug/L		1		
TRIP BLANK	100-42-5	Styrene	ND	ug/L		1		
TRIP BLANK	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
TRIP BLANK	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
TRIP BLANK	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
TRIP BLANK	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
TRIP BLANK	79-01-6	Trichloroethene	ND	ug/L		1	5	
TRIP BLANK	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
TRIP BLANK	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
TRIP BLANK	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Table 17. Results of Laboratory Analysis of Groundwater Samples Collected at Cliff Brice Property

Cliff Brice Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-01	71-43-2	Benzene	BDL	0.0005		mg/L	0.005	
CBP-01	108-88-3	Toluene	BDL	0.005		mg/L	1	
CBP-01	100-41-4	Ethylbenzene	BDL	0.0005		mg/L	0.7	
CBP-01	1330-20-7	Total Xylene	BDL	0.0015		mg/L	1.4	
CBP-01		TPH GRO (low fraction)	BDL	0.1		mg/L		
CBP-01		TPH DRO (high fraction)	BDL	0.1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-02	71-43-2	Benzene	BDL	0.005		mg/L	0.005	
CBP-02	108-88-3	Toluene	BDL	0.05		mg/L	1	
CBP-02	100-41-4	Ethylbenzene	0.009	0.005		mg/L	0.7	
CBP-02	1330-20-7	Total Xylene	0.016	0.015		mg/L	1.4	
CBP-02		TPH GRO (low fraction)	3	1		mg/L		
CBP-02		TPH DRO (high fraction)	7.4	0.1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-03	71-43-2	Benzene	18	0.005		mg/L	0.005	Y
CBP-03	108-88-3	Toluene	15	0.05		mg/L	1	Y
CBP-03	100-41-4	Ethylbenzene	0.99	0.005		mg/L	0.7	Y
CBP-03	1330-20-7	Total Xylene	4.9	0.015		mg/L	1.4	Y
CBP-03		TPH GRO (low fraction)	84	1		mg/L		
CBP-03		TPH DRO (high fraction)	4.6	0.1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-04	71-43-2	Benzene	0.52	0.005		mg/L	0.005	Y
CBP-04	108-88-3	Toluene	0.064	0.005		mg/L	1	
CBP-04	100-41-4	Ethylbenzene	0.031	0.0005		mg/L	0.7	
CBP-04	1330-20-7	Total Xylene	0.15	0.0015		mg/L	1.4	
CBP-04		TPH GRO (low fraction)	3.1	0.1		mg/L		
CBP-04		TPH DRO (high fraction)	19	1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-05	71-43-2	Benzene	0.018	0.0005		mg/L	0.005	Y
CBP-05	108-88-3	Toluene	0.017	0.005		mg/L	1	
CBP-05	100-41-4	Ethylbenzene	0.0045	0.0005		mg/L	0.7	
CBP-05	1330-20-7	Total Xylene	0.029	0.0015		mg/L	1.4	
CBP-05		TPH GRO (low fraction)	0.24	0.1		mg/L		
CBP-05		TPH DRO (high fraction)	0.34	0.1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-06	71-43-2	Benzene	0.24	0.0005		mg/L	0.005	Y
CBP-06	108-88-3	Toluene	1.1	0.1		mg/L	1	Y
CBP-06	100-41-4	Ethylbenzene	0.6	0.01		mg/L	0.7	
CBP-06	1330-20-7	Total Xylene	3.3	0.03		mg/L	1.4	Y
CBP-06		TPH GRO (low fraction)	15	2		mg/L		
CBP-06		TPH DRO (high fraction)	3	0.1		mg/L		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
CBP-07E	71-43-2	Benzene	0.11	0.0005		mg/L	0.005	Y
CBP-07E	108-88-3	Toluene	BDL	0.05		mg/L	1	
CBP-07E	100-41-4	Ethylbenzene	0.3	0.005		mg/L	0.7	
CBP-07E	1330-20-7	Total Xylene	1.2	0.015		mg/L	1.4	
CBP-07E		TPH GRO (low fraction)	5.9	0.1		mg/L		

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
CBP-07E		TPH DRO (high fraction)	3	0.1		mg/L		
Metals Via USA EPA Method 6020 and 7470								
WAMW4	7440-38-2	Arsenic	ND	ug/L		5	10	
WAMW4	7440-39-3	Barium	44	ug/L		1	2,000	
WAMW4	7440-43-9	Cadmium	ND	ug/L		1	5	
WAMW4	7440-47-3	Chromium	ND	ug/L		2	100	
WAMW4	7439-92-1	Lead	ND	ug/L		1	50	
WAMW4	7782-49-2	Selenium	2	ug/L	J	5	50	
WAMW4	7440-22-4	Silver	ND	ug/L		5	50	
WAMW4	7439-97-6	Mercury	0.071	ug/L	J B	0.2	2	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C								
WAMW4	90-12-0	1-Methylnaphthalene	13	ng/L	J	96	530,000,000	
WAMW4	91-57-6	2-Methylnaphthalene	ND	ng/L		96	2,200,000,000	
WAMW4	83-32-9	Acenaphthene	ND	ng/L		96	420,000	
WAMW4	208-96-8	Acenaphthylene	ND	ng/L		96		
WAMW4	120-12-7	Anthracene	ND	ng/L		96	2,100,000	
WAMW4	56-55-3	Benzo[a]anthracene	5.1	ng/L	J	96	4.8	Y
WAMW4	50-32-8	Benzo[a]pyrene	6.2	ng/L	J	96	4.8 to 2,000	Y
WAMW4	205-99-2	Benzo[b]fluoranthene	8	ng/L	J	96	4.8	Y
WAMW4	191-24-2	Benzo[g,h,i]perylene	14	ng/L	J B	96		
WAMW4	207-08-9	Benzo[k]fluoranthene	ND	ng/L		96	4.8	
WAMW4	218-01-9	Chrysene	5.5	ng/L	J	96	4.8	Y
WAMW4	53-70-3	Dibenz(a,h)anthracene	ND	ng/L		96	4.8	
WAMW4	206-44-0	Fluoranthene	8.4	ng/L	J B	96	280,000	
WAMW4	86-73-7	Fluorene	ND	ng/L		96	280,000	
WAMW4	193-39-5	Indeno[1,2,3-cd]pyrene	ND	ng/L		96	4.8	
WAMW4	91-20-3	Naphthalene	10	ng/L	J	96	140,000	
WAMW4	129-00-0	Pyrene	11	ng/L	J B	96		
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW4	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW4	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW4	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW4	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW4	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW4	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW4	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW4	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW4	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW4	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW4	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW4	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW4	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW4	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW4	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW4	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW4	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW4	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW4	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW4	67-64-1	Acetone	2.9	ug/L	J	10	6,300	
WAMW4	71-43-2	Benzene	ND	ug/L		1	5	
WAMW4	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW4	74-83-9	Bromomethane	ND	ug/L		2		
WAMW4	75-15-0	Carbon disulfide	ND	ug/L		2		

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
WAMW4	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW4	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW4	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW4	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW4	75-00-3	Chloroethane	ND	ug/L		2		
WAMW4	67-66-3	Chloroform	ND	ug/L		1		
WAMW4	74-87-3	Chloromethane	ND	ug/L		2		
WAMW4	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW4	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW4	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW4	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW4	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW4	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW4	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW4	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW4	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW4	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW4	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW4	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW4	95-47-6	o-Xylene	ND	ug/L		1		
WAMW4	100-42-5	Styrene	ND	ug/L		1		
WAMW4	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW4	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW4	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW4	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW4	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW4	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW4	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW4	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	
Metals Via USA EPA Method 6020 and 7470								
WAMW5	7440-38-2	Arsenic	ND	ug/L		5	10	
WAMW5	7440-39-3	Barium	47	ug/L		1	2,000	
WAMW5	7440-43-9	Cadmium	ND	ug/L		1	5	
WAMW5	7440-47-3	Chromium	ND	ug/L		2	100	
WAMW5	7439-92-1	Lead	ND	ug/L		1	50	
WAMW5	7782-49-2	Selenium	2.4	ug/L	J	5	50	
WAMW5	7440-22-4	Silver	ND	ug/L		5	50	
WAMW5	7439-97-6	Mercury	0.071	ug/L	J B	0.2	2	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C								
WAMW5	90-12-0	1-Methylnaphthalene	18	ng/L	J	98	530,000,000	
WAMW5	91-57-6	2-Methylnaphthalene	20	ng/L	J B	98	2,200,000,000	
WAMW5	83-32-9	Acenaphthene	ND	ng/L		98	420,000	
WAMW5	208-96-8	Acenaphthylene	ND	ng/L		98		
WAMW5	120-12-7	Anthracene	ND	ng/L		98	2,100,000	
WAMW5	56-55-3	Benzo[a]anthracene	ND	ng/L		98	4.8	
WAMW5	50-32-8	Benzo[a]pyrene	ND	ng/L		98	4.8 to 2,000	
WAMW5	205-99-2	Benzo[b]fluoranthene	ND	ng/L		98	4.8	
WAMW5	191-24-2	Benzo[g,h,i]perylene	7.4	ng/L	J B	98		
WAMW5	207-08-9	Benzo[k]fluoranthene	ND	ng/L		98	4.8	
WAMW5	218-01-9	Chrysene	ND	ng/L		98	4.8	
WAMW5	53-70-3	Dibenz(a,h)anthracene	ND	ng/L		98	4.8	
WAMW5	206-44-0	Fluoranthene	5.7	ng/L	J B	98	280,000	
WAMW5	86-73-7	Fluorene	ND	ng/L		98	280,000	
WAMW5	193-39-5	Indeno[1,2,3-cd]pyrene	ND	ng/L		98	4.8	

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
WAMW5	91-20-3	Naphthalene	13	ng/L	J	98	140,000	
WAMW5	85-01-8	Phenanthrene	26	ng/L	J	98		
WAMW5	129-00-0	Pyrene	9	ng/L	J B	98		
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW5	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW5	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW5	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW5	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW5	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW5	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW5	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW5	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW5	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW5	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW5	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW5	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW5	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW5	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW5	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW5	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW5	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW5	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW5	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW5	67-64-1	Acetone	6.8	ug/L	J	10	6,300	
WAMW5	71-43-2	Benzene	ND	ug/L		1	5	
WAMW5	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW5	74-83-9	Bromomethane	ND	ug/L		2		
WAMW5	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW5	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW5	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW5	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW5	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW5	75-00-3	Chloroethane	ND	ug/L		2		
WAMW5	67-66-3	Chloroform	ND	ug/L		1		
WAMW5	74-87-3	Chloromethane	ND	ug/L		2		
WAMW5	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW5	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW5	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW5	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW5	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW5	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW5	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW5	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW5	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW5	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW5	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW5	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW5	95-47-6	o-Xylene	ND	ug/L		1		
WAMW5	100-42-5	Styrene	ND	ug/L		1		
WAMW5	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW5	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW5	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW5	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW5	79-01-6	Trichloroethene	ND	ug/L		1	5	

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
WAMW5	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW5	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW5	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	
Metals Via USA EPA Method 6020 and 7470								
WAMW4D	7440-38-2	Arsenic	ND	ug/L		5	10	
WAMW4D	7440-39-3	Barium	44	ug/L		1	2,000	
WAMW4D	7440-43-9	Cadmium	ND	ug/L		1	5	
WAMW4D	7440-47-3	Chromium	ND	ug/L		2	100	
WAMW4D	7439-92-1	Lead	ND	ug/L		1	50	
WAMW4D	7782-49-2	Selenium	2.3	ug/L	J	5	50	
WAMW4D	7440-22-4	Silver	ND	ug/L		5	50	
WAMW4D	7439-97-6	Mercury	0.071	ug/L	J B	0.2	2	
Polycyclic Aromatic Hydrocarbons Via USA EPA Method 8270C								
WAMW4D	90-12-0	1-Methylnaphthalene	10	ng/L	J	97	530,000,000	
WAMW4D	91-57-6	2-Methylnaphthalene	14	ng/L	J B	97	2,200,000,000	
WAMW4D	83-32-9	Acenaphthene	ND	ng/L		97	420,000	
WAMW4D	208-96-8	Acenaphthylene	ND	ng/L		97		
WAMW4D	120-12-7	Anthracene	ND	ng/L		97	2,100,000	
WAMW4D	56-55-3	Benzo[a]anthracene	ND	ng/L		97	4.8	
WAMW4D	50-32-8	Benzo[a]pyrene	ND	ng/L		97	4.8 to 2,000	
WAMW4D	205-99-2	Benzo[b]fluoranthene	ND	ng/L		97	4.8	
WAMW4D	191-24-2	Benzo[g,h,i]perylene	8	ng/L	J B	97		
WAMW4D	207-08-9	Benzo[k]fluoranthene	ND	ng/L		97	4.8	
WAMW4D	218-01-9	Chrysene	ND	ng/L		97	4.8	
WAMW4D	53-70-3	Dibenz(a,h)anthracene	ND	ng/L		97	4.8	
WAMW4D	206-44-0	Fluoranthene	6.6	ng/L	J B	97	280,000	
WAMW4D	86-73-7	Fluorene	ND	ng/L		97	280,000	
WAMW4D	193-39-5	Indeno[1,2,3-cd]pyrene	ND	ng/L		97	4.8	
WAMW4D	91-20-3	Naphthalene	8.6	ng/L	J	97	140,000	
WAMW4D	85-01-8	Phenanthrene	30	ng/L	J	97		
WAMW4D	129-00-0	Pyrene	8.4	ng/L	J B	97		
Metals Via USA EPA Method 6020 and 7470								
BVMW5	7440-38-2	Arsenic	0.53	ug/L	J	5	10	
BVMW5	7440-39-3	Barium	42	ug/L		1	2,000	
BVMW5	7440-43-9	Cadmium	ND	ug/L		1	5	
BVMW5	7440-47-3	Chromium	ND	ug/L		2	100	
BVMW5	7439-92-1	Lead	ND	ug/L		1	50	
BVMW5	7782-49-2	Selenium	ND	ug/L		5	50	
BVMW5	7440-22-4	Silver	ND	ug/L		5	50	
BVMW5	7439-97-6	Mercury	0.07	ug/L	J B	0.2	2	
Volatile Organic Compounds Via USA EPA Method 8260B								
BVMW5	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
BVMW5	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
BVMW5	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
BVMW5	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
BVMW5	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
BVMW5	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
BVMW5	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
BVMW5	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
BVMW5	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
BVMW5	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
BVMW5	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
BVMW5	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
BVMW5	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
BVMW5	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
BVMW5	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
BVMW5	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
BVMW5	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
BVMW5	591-78-6	2-Hexanone	ND	ug/L		5		
BVMW5	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
BVMW5	67-64-1	Acetone	2.3	ug/L	J	10	6,300	
BVMW5	71-43-2	Benzene	ND	ug/L		1	5	
BVMW5	75-25-2	Bromoform	ND	ug/L		1	4	
BVMW5	74-83-9	Bromomethane	ND	ug/L		2		
BVMW5	75-15-0	Carbon disulfide	ND	ug/L		2		
BVMW5	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
BVMW5	108-90-7	Chlorobenzene	ND	ug/L		1	100	
BVMW5	74-97-5	Chlorobromomethane	ND	ug/L		1		
BVMW5	124-48-1	Chlorodibromomethane	ND	ug/L		1		
BVMW5	75-00-3	Chloroethane	ND	ug/L		2		
BVMW5	67-66-3	Chloroform	ND	ug/L		1		
BVMW5	74-87-3	Chloromethane	ND	ug/L		2		
BVMW5	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
BVMW5	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
BVMW5	110-82-7	Cyclohexane	ND	ug/L		2		
BVMW5	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
BVMW5	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
BVMW5	100-41-4	Ethylbenzene	ND	ug/L		1	700	
BVMW5	98-82-8	Isopropylbenzene	ND	ug/L		1		
BVMW5	79-20-9	Methyl acetate	ND	ug/L		5		
BVMW5	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
BVMW5	108-87-2	Methylcyclohexane	ND	ug/L		1		
BVMW5	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
BVMW5	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
BVMW5	95-47-6	o-Xylene	ND	ug/L		1		
BVMW5	100-42-5	Styrene	ND	ug/L		1		
BVMW5	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
BVMW5	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
BVMW5	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
BVMW5	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
BVMW5	79-01-6	Trichloroethene	ND	ug/L		1	5	
BVMW5	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
BVMW5	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
BVMW5	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	
Volatile Organic Compounds Via USA EPA Method 8260B								
TRIP BLANK	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
TRIP BLANK	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
TRIP BLANK	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
TRIP BLANK	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
TRIP BLANK	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
TRIP BLANK	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
TRIP BLANK	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
TRIP BLANK	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
TRIP BLANK	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
TRIP BLANK	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
TRIP BLANK	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
TRIP BLANK	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
TRIP BLANK	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
TRIP BLANK	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
TRIP BLANK	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
TRIP BLANK	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
TRIP BLANK	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
TRIP BLANK	591-78-6	2-Hexanone	ND	ug/L		5		
TRIP BLANK	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
TRIP BLANK	67-64-1	Acetone	ND	ug/L		10	6,300	
TRIP BLANK	71-43-2	Benzene	ND	ug/L		1	5	
TRIP BLANK	75-25-2	Bromoform	ND	ug/L		1	4	
TRIP BLANK	74-83-9	Bromomethane	ND	ug/L		2		
TRIP BLANK	75-15-0	Carbon disulfide	ND	ug/L		2		
TRIP BLANK	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
TRIP BLANK	108-90-7	Chlorobenzene	ND	ug/L		1	100	
TRIP BLANK	74-97-5	Chlorobromomethane	ND	ug/L		1		
TRIP BLANK	124-48-1	Chlorodibromomethane	ND	ug/L		1		
TRIP BLANK	75-00-3	Chloroethane	ND	ug/L		2		
TRIP BLANK	67-66-3	Chloroform	ND	ug/L		1		
TRIP BLANK	74-87-3	Chloromethane	ND	ug/L		2		
TRIP BLANK	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
TRIP BLANK	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
TRIP BLANK	110-82-7	Cyclohexane	ND	ug/L		2		
TRIP BLANK	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
TRIP BLANK	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
TRIP BLANK	100-41-4	Ethylbenzene	ND	ug/L		1	700	
TRIP BLANK	98-82-8	Isopropylbenzene	ND	ug/L		1		
TRIP BLANK	79-20-9	Methyl acetate	ND	ug/L		5		
TRIP BLANK	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
TRIP BLANK	108-87-2	Methylcyclohexane	ND	ug/L		1		
TRIP BLANK	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
TRIP BLANK	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
TRIP BLANK	95-47-6	o-Xylene	ND	ug/L		1		
TRIP BLANK	100-42-5	Styrene	ND	ug/L		1		
TRIP BLANK	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
TRIP BLANK	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
TRIP BLANK	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
TRIP BLANK	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
TRIP BLANK	79-01-6	Trichloroethene	ND	ug/L		1	5	
TRIP BLANK	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
TRIP BLANK	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
TRIP BLANK	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Table 18. Results of Laboratory Analysis of Groundwater Samples Collected at Acorn Property

Acorn Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
A-O1	71-43-2	Benzene	**0.014**	mg/L		0.0005	0.005	Y
A-O1	108-88-3	Toluene	**0.016**	mg/L		0.005	0.56	
A-O1	100-41-4	Ethylbenzene	**0.0055**	mg/L		0.0005	0.7	
A-O1	1330-20-7	Total Xylene	**0.018**	mg/L		0.0015	1.4	
A-O1		TPH GRO (low fraction)	**4.1**	mg/L		0.10		
A-O1		TPH DRO (high fraction)	**0.66**	mg/L		0.10		
BTEX and TPH-DRO and TPH-GRO via USA EPA Methods 8021 and 3511								
A-O2E	71-43-2	Benzene	BDL	mg/L		0.0005	0.005	
A-O2E	108-88-3	Toluene	BDL	mg/L		0.005	0.56	
A-O2E	100-41-4	Ethylbenzene	BDL	mg/L		0.0005	0.7	
A-O2E	1330-20-7	Total Xylene	BDL	mg/L		0.0015	1.4	
A-O2E		TPH GRO (low fraction)	BDL	mg/L		0.10		
A-O2E		TPH DRO (high fraction)	BDL	mg/L		0.10		

Table 19. Results of Laboratory Analysis of Groundwater Samples Collected at Speken Metal Property

Speken Metal Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Metals Via USA EPA Method 6020 and 7470								
WAMW6	7440-38-2	Arsenic	ND	ug/L		5	10	
WAMW6	7440-39-3	Barium	34	ug/L		1	2,000	
WAMW6	7440-43-9	Cadmium	0.14	ug/L	J	1	5	
WAMW6	7440-47-3	Chromium	ND	ug/L		2	100	
WAMW6	7439-92-1	Lead	ND	ug/L		1	50	
WAMW6	7782-49-2	Selenium	2.3	ug/L	J	5	50	
WAMW6	7440-22-4	Silver	ND	ug/L		5	50	
WAMW6	7439-97-6	Mercury	0.067	ug/L	J B	0.2	2	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
WAMW6	1336-36-3	Polychlorinated biphenyls, Total	ND	ug/L		0.97	17.5	
WAMW6	12674-11-2	PCB-1016	ND	ug/L		0.97	17.5	
WAMW6	11104-28-2	PCB-1221	ND	ug/L		0.97	17.5	
WAMW6	11141-16-5	PCB-1232	ND	ug/L		0.97	17.5	
WAMW6	53469-21-9	PCB-1242	ND	ug/L		0.97	17.5	
WAMW6	12672-29-6	PCB-1248	ND	ug/L		0.97	17.5	
WAMW6	11097-69-1	PCB-1254	ND	ug/L		0.97	17.5	
WAMW6	11096-82-5	PCB-1260	ND	ug/L		0.97	17.5	
WAMW6	37324-23-5	PCB-1262	ND	ug/L		0.97	17.5	
WAMW6	11100-14-4	PCB-1268	ND	ug/L		0.97	17.5	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW6	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW6	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW6	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
WAMW6	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW6	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW6	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW6	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW6	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW6	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW6	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW6	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW6	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW6	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW6	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW6	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW6	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW6	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW6	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW6	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW6	67-64-1	Acetone	ND	ug/L		10	6,300	
WAMW6	71-43-2	Benzene	ND	ug/L		1	5	
WAMW6	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW6	74-83-9	Bromomethane	ND	ug/L		2		
WAMW6	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW6	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW6	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW6	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW6	124-48-1	Chlorodibromomethane	ND	ug/L		1		

Speken Metal Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
WAMW6	75-00-3	Chloroethane	ND	ug/L		2		
WAMW6	67-66-3	Chloroform	ND	ug/L		1		
WAMW6	74-87-3	Chloromethane	ND	ug/L		2		
WAMW6	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW6	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW6	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW6	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW6	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW6	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW6	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW6	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW6	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW6	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW6	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW6	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW6	95-47-6	o-Xylene	ND	ug/L		1		
WAMW6	100-42-5	Styrene	ND	ug/L		1		
WAMW6	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW6	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW6	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW6	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW6	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW6	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW6	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW6	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	
Metals Via USA EPA Method 6020 and 7470								
WAMW7	7440-38-2	Arsenic	ND	ug/L		5	10	
WAMW7	7440-39-3	Barium	34	ug/L		1	2,000	
WAMW7	7440-43-9	Cadmium	0.18	ug/L	J	1	5	
WAMW7	7440-47-3	Chromium	ND	ug/L		2	100	
WAMW7	7439-92-1	Lead	0.36	ug/L	J	1	50	
WAMW7	7782-49-2	Selenium	0.91	ug/L	J	5	50	
WAMW7	7440-22-4	Silver	ND	ug/L		5	50	
WAMW7	7439-97-6	Mercury	0.066	ug/L	J B	0.2	2	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
WAMW7	1336-36-3	Polychlorinated biphenyls, Total	ND	ug/L		0.96	17.5	
WAMW7	12674-11-2	PCB-1016	ND	ug/L		0.96	17.5	
WAMW7	11104-28-2	PCB-1221	ND	ug/L		0.96	17.5	
WAMW7	11141-16-5	PCB-1232	ND	ug/L		0.96	17.5	
WAMW7	53469-21-9	PCB-1242	ND	ug/L		0.96	17.5	
WAMW7	12672-29-6	PCB-1248	ND	ug/L		0.96	17.5	
WAMW7	11097-69-1	PCB-1254	ND	ug/L		0.96	17.5	
WAMW7	11096-82-5	PCB-1260	ND	ug/L		0.96	17.5	
WAMW7	37324-23-5	PCB-1262	ND	ug/L		0.96	17.5	
WAMW7	11100-14-4	PCB-1268	ND	ug/L		0.96	17.5	
Volatile Organic Compounds Via USA EPA Method 8260B								
WAMW7	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
WAMW7	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
WAMW7	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	

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Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
WAMW7	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
WAMW7	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
WAMW7	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
WAMW7	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
WAMW7	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
WAMW7	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
WAMW7	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
WAMW7	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
WAMW7	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
WAMW7	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
WAMW7	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
WAMW7	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
WAMW7	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
WAMW7	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
WAMW7	591-78-6	2-Hexanone	ND	ug/L		5		
WAMW7	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
WAMW7	67-64-1	Acetone	6.7	ug/L	J	10	6,300	
WAMW7	71-43-2	Benzene	ND	ug/L		1	5	
WAMW7	75-25-2	Bromoform	ND	ug/L		1	4	
WAMW7	74-83-9	Bromomethane	ND	ug/L		2		
WAMW7	75-15-0	Carbon disulfide	ND	ug/L		2		
WAMW7	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
WAMW7	108-90-7	Chlorobenzene	ND	ug/L		1	100	
WAMW7	74-97-5	Chlorobromomethane	ND	ug/L		1		
WAMW7	124-48-1	Chlorodibromomethane	ND	ug/L		1		
WAMW7	75-00-3	Chloroethane	ND	ug/L		2		
WAMW7	67-66-3	Chloroform	ND	ug/L		1		
WAMW7	74-87-3	Chloromethane	ND	ug/L		2		
WAMW7	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
WAMW7	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
WAMW7	110-82-7	Cyclohexane	ND	ug/L		2		
WAMW7	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
WAMW7	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
WAMW7	100-41-4	Ethylbenzene	ND	ug/L		1	700	
WAMW7	98-82-8	Isopropylbenzene	ND	ug/L		1		
WAMW7	79-20-9	Methyl acetate	ND	ug/L		5		
WAMW7	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
WAMW7	108-87-2	Methylcyclohexane	ND	ug/L		1		
WAMW7	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
WAMW7	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
WAMW7	95-47-6	o-Xylene	ND	ug/L		1		
WAMW7	100-42-5	Styrene	ND	ug/L		1		
WAMW7	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
WAMW7	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
WAMW7	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
WAMW7	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
WAMW7	79-01-6	Trichloroethene	ND	ug/L		1	5	
WAMW7	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
WAMW7	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
WAMW7	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

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Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
PolyChlorinated Biphenyls Via USA EPA Method 8082								
WAMW7D	1336-36-3	Polychlorinated biphenyls, Total	ND	ug/L		0.95	17.5	
WAMW7D	12674-11-2	PCB-1016	ND	ug/L		0.95	17.5	
WAMW7D	11104-28-2	PCB-1221	ND	ug/L		0.95	17.5	
WAMW7D	11141-16-5	PCB-1232	ND	ug/L		0.95	17.5	
WAMW7D	53469-21-9	PCB-1242	ND	ug/L		0.95	17.5	
WAMW7D	12672-29-6	PCB-1248	ND	ug/L		0.95	17.5	
WAMW7D	11097-69-1	PCB-1254	ND	ug/L		0.95	17.5	
WAMW7D	11096-82-5	PCB-1260	ND	ug/L		0.95	17.5	
WAMW7D	37324-23-5	PCB-1262	ND	ug/L		0.95	17.5	
WAMW7D	11100-14-4	PCB-1268	ND	ug/L		0.95	17.5	
Volatile Organic Compounds Via USA EPA Method 8260B								
TRIP BLANK	71-55-6	1,1,1-Trichloroethane	ND	ug/L		1	14,000 to 200	
TRIP BLANK	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L		1	0.18	
TRIP BLANK	79-00-5	1,1,2-Trichloroethane	ND	ug/L		1	2.8 to 5	
TRIP BLANK	76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L		3		
TRIP BLANK	75-34-3	1,1-Dichloroethane	ND	ug/L		1		
TRIP BLANK	75-35-4	1,1-Dichloroethene	ND	ug/L		1	7	
TRIP BLANK	87-61-6	1,2,3-Trichlorobenzene	ND	ug/L		1		
TRIP BLANK	120-82-1	1,2,4-Trichlorobenzene	ND	ug/L		1	70	
TRIP BLANK	96-12-8	1,2-Dibromo-3-Chloropropane	ND	ug/L		5		
TRIP BLANK	106-93-4	1,2-Dibromoethane	ND	ug/L		1	0.018	
TRIP BLANK	95-50-1	1,2-Dichlorobenzene	ND	ug/L		1	600	
TRIP BLANK	107-06-2	1,2-Dichloroethane	ND	ug/L		1	0.38 to 5	
TRIP BLANK	78-87-5	1,2-Dichloropropane	ND	ug/L		1	0.52 to 5	
TRIP BLANK	541-73-1	1,3-Dichlorobenzene	ND	ug/L		1	94	
TRIP BLANK	106-46-7	1,4-Dichlorobenzene	ND	ug/L		1	75	
TRIP BLANK	123-91-1	1,4-Dioxane	ND	ug/L		200	0.35	
TRIP BLANK	78-93-3	2-Butanone (MEK)	ND	ug/L		6		
TRIP BLANK	591-78-6	2-Hexanone	ND	ug/L		5		
TRIP BLANK	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
TRIP BLANK	67-64-1	Acetone	3.9	ug/L	J	10	6,300	
TRIP BLANK	71-43-2	Benzene	ND	ug/L		1	5	
TRIP BLANK	75-25-2	Bromoform	ND	ug/L		1	4	
TRIP BLANK	74-83-9	Bromomethane	ND	ug/L		2		
TRIP BLANK	75-15-0	Carbon disulfide	ND	ug/L		2		
TRIP BLANK	56-23-5	Carbon tetrachloride	ND	ug/L		1	0.5 to 5	
TRIP BLANK	108-90-7	Chlorobenzene	ND	ug/L		1	100	
TRIP BLANK	74-97-5	Chlorobromomethane	ND	ug/L		1		
TRIP BLANK	124-48-1	Chlorodibromomethane	ND	ug/L		1		
TRIP BLANK	75-00-3	Chloroethane	ND	ug/L		2		
TRIP BLANK	67-66-3	Chloroform	ND	ug/L		1		
TRIP BLANK	74-87-3	Chloromethane	ND	ug/L		2		
TRIP BLANK	156-59-2	cis-1,2-Dichloroethene	ND	ug/L		1	14 to 70	
TRIP BLANK	10061-01-5	cis-1,3-Dichloropropene	ND	ug/L		1		
TRIP BLANK	110-82-7	Cyclohexane	ND	ug/L		2		
TRIP BLANK	75-27-4	Dichlorobromomethane	ND	ug/L		1	0.56	
TRIP BLANK	75-71-8	Dichlorodifluoromethane	ND	ug/L		2		
TRIP BLANK	100-41-4	Ethylbenzene	ND	ug/L		1	700	
TRIP BLANK	98-82-8	Isopropylbenzene	ND	ug/L		1		

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Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
TRIP BLANK	79-20-9	Methyl acetate	ND	ug/L		5		
TRIP BLANK	1634-04-4	Methyl tert-butyl ether	ND	ug/L		5		
TRIP BLANK	108-87-2	Methylcyclohexane	ND	ug/L		1		
TRIP BLANK	75-09-2	Methylene Chloride	ND	ug/L		2	5.6 to 5	
TRIP BLANK	179601-23-1	m-Xylene & p-Xylene	ND	ug/L		2		
TRIP BLANK	95-47-6	o-Xylene	ND	ug/L		1		
TRIP BLANK	100-42-5	Styrene	ND	ug/L		1		
TRIP BLANK	127-18-4	Tetrachloroethene	ND	ug/L		1	17 to 5	
TRIP BLANK	108-88-3	Toluene	ND	ug/L		1	560 to 1000	
TRIP BLANK	156-60-5	trans-1,2-Dichloroethene	ND	ug/L		1	140 to 100	
TRIP BLANK	10061-02-6	trans-1,3-Dichloropropene	ND	ug/L		3		
TRIP BLANK	79-01-6	Trichloroethene	ND	ug/L		1	5	
TRIP BLANK	75-69-4	Trichlorofluoromethane	ND	ug/L		2		
TRIP BLANK	75-01-4	Vinyl chloride	ND	ug/L		1	0.023 to 2	
TRIP BLANK	1330-20-7	Xylenes, Total	ND	ug/L		1	1,400 to 10,000	

Table 20. Results of Laboratory Analysis of Groundwater Samples Collected at Iron Phoenix Property

Iron Phoenix Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
Dissolved Metals - USA EPA Methods 6010B, 7470A								
IP01	7439-97-6	Mercury (Hg)	ND	mg/L		0.0002	0.002	
IP01	7440-38-2	Arsenic (As)	ND	mg/L		0.001	0.01	
IP01	7440-39-3	Barium (Ba)	0.068	mg/L		0.005	2	
IP01	7440-43-9	Cadmium (Cd)	ND	mg/L		0.005	0.005	
IP01	16065-83-1	Chromium (Cr)	ND	mg/L		0.01	0.1	
IP01	7439-92-1	Lead (Pb)	ND	mg/L		0.005	0.05	
IP01	7782-49-2	Selenium (Se)	ND	mg/L		0.02	0.05	
IP01	7440-22-4	Silver (Ag)	ND	mg/L		0.01	0.05	
Base Neutral/ Acid Extractable Compounds via USA EPA Methods 8270C								
IP01	120-82-1	1,2,4-trichlorobenzene	ND	mg/L		0.01	0.07	
IP01	88-75-5	2 - Nitrophenol	ND	mg/L		0.01	no standard	
IP01	91-58-7	2- Chloronaphthalene	ND	mg/L		0.001	0.56	
IP01	105-67-9	2,4 - Dimethylphenol	ND	mg/L		0.01	0.14	
IP01	121-14-2	2,4 - Dinitrotoluene	ND	mg/L		0.01	0.00011	Y
IP01	88-06-2	2,4,6 - Trichlorophenol	ND	mg/L		0.01	0.0032	Y
IP01	120-83-2	2,4-Dichlorophenol	ND	mg/L		0.01	0.0032	Y
IP01	51-28-5	2,4-Dinitrophenol	ND	mg/L		0.01	0.014	
IP01	606-20-2	2,6- Dinitrotoluene	ND	mg/L		0.01	no standard	
IP01	95-57-8	2-Chlorophenol	ND	mg/L		0.01	0.035	Y
IP01	91-94-1	3,3'-Dichlorobenzidine	ND	mg/L		0.01	0.000078	Y
IP01	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/L		0.01	no standard	
IP01	101-55-3	4-Bromophenyl phenyl ether	ND	mg/L		0.01	no standard	
IP01	59-50-7	4-chloro-3-methyl-phenol	ND	mg/L		0.01	0.21	
IP01	7005-72-3	4-Chlorodiphenylether	ND	mg/L		0.01	no standard	
IP01	100-02-7	4-Nitrophenol	ND	mg/L		0.01	0.056	
IP01	83-32-9	Acenaphthene	ND	mg/L		0.001	0.42	
IP01	208-96-8	Acenaphthylene	ND	mg/L		0.001	no standard	
IP01	120-12-7	Anthracene	ND	mg/L		0.001	2.1	
IP01	92-87-5	Benzidine	ND	mg/L		0.01	0.00000015	Y
IP01	56-55-3	Benzo[a]anthracene	ND	mg/L		0.001	0.0000048	Y
IP01	50-32-8	Benzo[a]pyrene	ND	mg/L		0.001	0.0000048	Y
IP01	205-99-2	Benzo[b]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP01	191-24-2	Benzo[g,h,i]perylene	ND	mg/L		0.001	no standard	
IP01	207-08-9	Benzo[k]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP01	111-44-4	Bis (2-chloroethyl) ether	ND	mg/L		0.01	no standard	
IP01	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/L		0.01	0.0000048	Y
IP01	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/L		0.003	no standard	
IP01	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/L		0.01	no standard	
IP01	85-68-7	Butyl benzyl phthalate	ND	mg/L		0.003	1.4	
IP01	218-01-9	Chrysene	ND	mg/L		0.001	0.0000048	Y
IP01	53-70-3	Dibenzo(a,h)anthracene	ND	mg/L		0.001	0.0000048	Y
IP01	84-66-2	Diethylphthalate	ND	mg/L		0.003	5.6	
IP01	131-11-3	Dimethyl phthalate	ND	mg/L		0.003	0.14	
IP01	84-74-2	Di-n-butyl phthalate	ND	mg/L		0.003	0.7	
IP01	117-84-0	Di-n-Octyl phthalate	ND	mg/L		0.003	no standard	
IP01	206-44-0	Fluoranthene	ND	mg/L		0.001	0.28	
IP01	86-73-7	Fluorene	ND	mg/L		0.001	0.28	

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Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
IP01	118-74-1	Hexachlorobenzene	ND	mg/L		0.01	0.000022	Y
IP01	87-68-3	Hexachlorobutadiene	ND	mg/L		0.01	0.00045	Y
IP01	77-47-4	Hexachlorocyclopentadiene	ND	mg/L		0.01	0.042	
IP01	67-72-1	Hexachloroethane	ND	mg/L		0.01	0.00088	Y
IP01	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/L		0.001	0.0000048	
IP01	78-59-1	Isophorone	ND	mg/L		0.01	0.14	
IP01	91-20-3	Naphthalene	ND	mg/L		0.001	0.14	
IP01	98-95-3	Nitrobenzene	ND	mg/L		0.01	0.014	
IP01	62-75-9	N-Nitrosodimethylamine	ND	mg/L		0.01	0.00000069	Y
IP01	621-64-7	N-nitrosodi-n-propylamine	ND	mg/L		0.01	0.000005	Y
IP01	86-30-6	N-Nitrosodiphenylamine	ND	mg/L		0.01	0.0000016	Y
IP01	87-86-5	Pentachlorophenol	ND	mg/L		0.01	0.000088	Y
IP01	85-01-8	Phenanthrene	ND	mg/L		0.001	no standard	
IP01	108-95-2	Phenol	ND	mg/L		0.01	2.1	
IP01	129-00-0	Pyrene	ND	mg/L		0.001	0.21	
Dissolved Metals - USA EPA Methods 6010B, 7470A								
IP02	7439-97-6	Mercury (Hg)	ND	mg/L		0.0002	0.002	
IP02	7440-38-2	Arsenic (As)	ND	mg/L		0.001	0.01	
IP02	7440-39-3	Barium (Ba)	0.053	mg/L		0.005	2	
IP02	7440-43-9	Cadmium (Cd)	ND	mg/L		0.005	0.005	
IP02	16065-83-1	Chromium (Cr)	ND	mg/L		0.01	0.1	
IP02	7439-92-1	Lead (Pb)	ND	mg/L		0.005	0.05	
IP02	7782-49-2	Selenium (Se)	ND	mg/L		0.02	0.05	
IP02	7440-22-4	Silver (Ag)	ND	mg/L		0.01	0.05	
Base Neutral/ Acid Extractable Compounds via USA EPA Methods 8270C								
IP02	120-82-1	1,2,4-trichlorobenzene	ND	mg/L		0.01	0.07	
IP02	88-75-5	2 - Nitrophenol	ND	mg/L		0.01	no standard	
IP02	91-58-7	2- Chloronaphthalene	ND	mg/L		0.001	0.56	
IP02	105-67-9	2,4 - Dimethylphenol	ND	mg/L		0.01	0.14	
IP02	121-14-2	2,4 - Dinitrotoluene	ND	mg/L		0.01	0.00011	Y
IP02	88-06-2	2,4,6 - Trichlorophenol	ND	mg/L		0.01	0.0032	Y
IP02	120-83-2	2,4-Dichlorophenol	ND	mg/L		0.01	0.0032	Y
IP02	51-28-5	2,4-Dinitrophenol	ND	mg/L		0.01	0.014	
IP02	606-20-2	2,6- Dinitrotoluene	ND	mg/L		0.01	no standard	
IP02	95-57-8	2-Chlorophenol	ND	mg/L		0.01	0.035	Y
IP02	91-94-1	3,3'-Dichlorobenzidine	ND	mg/L		0.01	0.000078	Y
IP02	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/L		0.01	no standard	
IP02	101-55-3	4-Bromophenyl phenyl ether	ND	mg/L		0.01	no standard	
IP02	59-50-7	4-chloro-3-methyl-phenol	ND	mg/L		0.01	0.21	
IP02	7005-72-3	4-Chlorodiphenylether	ND	mg/L		0.01	no standard	
IP02	100-02-7	4-Nitrophenol	ND	mg/L		0.01	0.056	
IP02	83-32-9	Acenaphthene	ND	mg/L		0.001	0.42	
IP02	208-96-8	Acenaphthylene	ND	mg/L		0.001	no standard	
IP02	120-12-7	Anthracene	ND	mg/L		0.001	2.1	
IP02	92-87-5	Benzidine	ND	mg/L		0.01	0.00000015	Y
IP02	56-55-3	Benzo[a]anthracene	ND	mg/L		0.001	0.0000048	Y
IP02	50-32-8	Benzo[a]pyrene	ND	mg/L		0.001	0.0000048	Y
IP02	205-99-2	Benzo[b]fluoranthene	ND	mg/L		0.001	0.0000048	Y

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Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
IP02	191-24-2	Benzo[g,h,i]perylene	ND	mg/L		0.001	no standard	
IP02	207-08-9	Benzo[k]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP02	111-44-4	Bis (2-chloroethyl) ether	ND	mg/L		0.01	no standard	
IP02	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/L		0.01	0.0000048	Y
IP02	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/L		0.003	no standard	
IP02	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/L		0.01	no standard	
IP02	85-68-7	Butyl benzyl phthalate	ND	mg/L		0.003	1.4	
IP02	218-01-9	Chrysene	ND	mg/L		0.001	0.0000048	Y
IP02	53-70-3	Dibenzo(a,h)anthracene	ND	mg/L		0.001	0.0000048	Y
IP02	84-66-2	Diethylphthalate	ND	mg/L		0.003	5.6	
IP02	131-11-3	Dimethyl phthalate	ND	mg/L		0.003	0.14	
IP02	84-74-2	Di-n-butyl phthalate	ND	mg/L		0.003	0.7	
IP02	117-84-0	Di-n-Octyl phthalate	ND	mg/L		0.003	no standard	
IP02	206-44-0	Fluoranthene	ND	mg/L		0.001	0.28	
IP02	86-73-7	Fluorene	ND	mg/L		0.001	0.28	
IP02	118-74-1	Hexachlorobenzene	ND	mg/L		0.01	0.000022	Y
IP02	87-68-3	Hexachlorobutadiene	ND	mg/L		0.01	0.00045	Y
IP02	77-47-4	Hexachlorocyclopentadiene	ND	mg/L		0.01	0.042	
IP02	67-72-1	Hexachloroethane	ND	mg/L		0.01	0.00088	Y
IP02	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/L		0.001	0.0000048	
IP02	78-59-1	Isophorone	ND	mg/L		0.01	0.14	
IP02	91-20-3	Naphthalene	ND	mg/L		0.001	0.14	
IP02	98-95-3	Nitrobenzene	ND	mg/L		0.01	0.014	
IP02	62-75-9	N-Nitrosodimethylamine	ND	mg/L		0.01	0.00000069	Y
IP02	621-64-7	N-nitrosodi-n-propylamine	ND	mg/L		0.01	0.000005	Y
IP02	86-30-6	N-Nitrosodiphenylamine	ND	mg/L		0.01	0.0000016	Y
IP02	87-86-5	Pentachlorophenol	ND	mg/L		0.01	0.000088	Y
IP02	85-01-8	Phenanthrene	ND	mg/L		0.001	no standard	
IP02	108-95-2	Phenol	ND	mg/L		0.01	2.1	
IP02	129-00-0	Pyrene	ND	mg/L		0.001	0.21	
Dissolved Metals - USA EPA Methods 6010B, 7470A								
IP03	7439-97-6	Mercury (Hg)	ND	mg/L		0.0002	0.002	
IP03	7440-38-2	Arsenic (As)	ND	mg/L		0.001	0.01	
IP03	7440-39-3	Barium (Ba)	0.056	mg/L		0.005	2	
IP03	7440-43-9	Cadmium (Cd)	ND	mg/L		0.005	0.005	
IP03	16065-83-1	Chromium (Cr)	ND	mg/L		0.01	0.1	
IP03	7439-92-1	Lead (Pb)	ND	mg/L		0.005	0.05	
IP03	7782-49-2	Selenium (Se)	0.05	mg/L		0.02	0.05	
IP03	7440-22-4	Silver (Ag)	ND	mg/L		0.01	0.05	
Base Neutral/ Acid Extractable Compounds via USA EPA Methods 8270C								
IP03	120-82-1	1,2,4-trichlorobenzene	ND	mg/L		0.01	0.07	
IP03	88-75-5	2 - Nitrophenol	ND	mg/L		0.01	no standard	
IP03	91-58-7	2- Chloronaphthalene	ND	mg/L		0.001	0.56	
IP03	105-67-9	2,4 - Dimethylphenol	ND	mg/L		0.01	0.14	
IP03	121-14-2	2,4 - Dinitrotoluene	ND	mg/L		0.01	0.00011	Y
IP03	88-06-2	2,4,6 - Trichlorophenol	ND	mg/L		0.01	0.0032	Y
IP03	120-83-2	2,4-Dichlorophenol	ND	mg/L		0.01	0.0032	Y
IP03	51-28-5	2,4-Dinitrophenol	ND	mg/L		0.01	0.014	

Iron Phoenix Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
IP03	606-20-2	2,6- Dinitrotoluene	ND	mg/L		0.01	no standard	
IP03	95-57-8	2-Chlorophenol	ND	mg/L		0.01	0.035	Y
IP03	91-94-1	3,3'-Dichlorobenzidine	ND	mg/L		0.01	0.000078	Y
IP03	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/L		0.01	no standard	
IP03	101-55-3	4-Bromophenyl phenyl ether	ND	mg/L		0.01	no standard	
IP03	59-50-7	4-chloro-3-methyl-phenol	ND	mg/L		0.01	0.21	
IP03	7005-72-3	4-Chlorodiphenylether	ND	mg/L		0.01	no standard	
IP03	100-02-7	4-Nitrophenol	ND	mg/L		0.01	0.056	
IP03	83-32-9	Acenaphthene	ND	mg/L		0.001	0.42	
IP03	208-96-8	Acenaphthylene	ND	mg/L		0.001	no standard	
IP03	120-12-7	Anthracene	ND	mg/L		0.001	2.1	
IP03	92-87-5	Benzidine	ND	mg/L		0.01	0.00000015	Y
IP03	56-55-3	Benzo[a]anthracene	ND	mg/L		0.001	0.0000048	Y
IP03	50-32-8	Benzo[a]pyrene	ND	mg/L		0.001	0.0000048	Y
IP03	205-99-2	Benzo[b]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP03	191-24-2	Benzo[g,h,i]perylene	ND	mg/L		0.001	no standard	
IP03	207-08-9	Benzo[k]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP03	111-44-4	Bis (2-chloroethyl) ether	ND	mg/L		0.01	no standard	
IP03	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/L		0.01	0.0000048	Y
IP03	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/L		0.003	no standard	
IP03	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/L		0.01	no standard	
IP03	85-68-7	Butyl benzyl phthalate	ND	mg/L		0.003	1.4	
IP03	218-01-9	Chrysene	ND	mg/L		0.001	0.0000048	Y
IP03	53-70-3	Dibenzo(a,h)anthracene	ND	mg/L		0.001	0.0000048	Y
IP03	84-66-2	Diethylphthalate	ND	mg/L		0.003	5.6	
IP03	131-11-3	Dimethyl phthalate	ND	mg/L		0.003	0.14	
IP03	84-74-2	Di-n-butyl phthalate	ND	mg/L		0.003	0.7	
IP03	117-84-0	Di-n-Octyl phthalate	ND	mg/L		0.003	no standard	
IP03	206-44-0	Fluoranthene	ND	mg/L		0.001	0.28	
IP03	86-73-7	Fluorene	ND	mg/L		0.001	0.28	
IP03	118-74-1	Hexachlorobenzene	ND	mg/L		0.01	0.000022	Y
IP03	87-68-3	Hexachlorobutadiene	ND	mg/L		0.01	0.00045	Y
IP03	77-47-4	Hexachlorocyclopentadiene	ND	mg/L		0.01	0.042	
IP03	67-72-1	Hexachloroethane	ND	mg/L		0.01	0.00088	Y
IP03	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/L		0.001	0.0000048	
IP03	78-59-1	Isophorone	ND	mg/L		0.01	0.14	
IP03	91-20-3	Naphthalene	ND	mg/L		0.001	0.14	
IP03	98-95-3	Nitrobenzene	ND	mg/L		0.01	0.014	
IP03	62-75-9	N-Nitrosodimethylamine	ND	mg/L		0.01	0.00000069	Y
IP03	621-64-7	N-nitrosodi-n-propylamine	ND	mg/L		0.01	0.000005	Y
IP03	86-30-6	N-Nitrosodiphenylamine	ND	mg/L		0.01	0.0000016	Y
IP03	87-86-5	Pentachlorophenol	ND	mg/L		0.01	0.000088	Y
IP03	85-01-8	Phenanthrene	ND	mg/L		0.001	no standard	
IP03	108-95-2	Phenol	ND	mg/L		0.01	2.1	
IP03	129-00-0	Pyrene	ND	mg/L		0.001	0.21	
Dissolved Metals - USA EPA Methods 6010B, 7470A								
IP04	7439-97-6	Mercury (Hg)	ND	mg/L		0.0002	0.002	
IP04	7440-38-2	Arsenic (As)	ND	mg/L		0.001	0.01	

Iron Phoenix Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
IP04	7440-39-3	Barium (Ba)	0.050	mg/L		0.005	2	
IP04	7440-43-9	Cadmium (Cd)	ND	mg/L		0.005	0.005	
IP04	16065-83-1	Chromium (Cr)	ND	mg/L		0.01	0.1	
IP04	7439-92-1	Lead (Pb)	ND	mg/L		0.005	0.05	
IP04	7782-49-2	Selenium (Se)	ND	mg/L		0.02	0.05	
IP04	7440-22-4	Silver (Ag)	ND	mg/L		0.01	0.05	
Base Neutral/ Acid Extractable Compounds via USA EPA Methods 8270C								
IP04	120-82-1	1,2,4-trichlorobenzene	ND	mg/L		0.01	0.07	
IP04	88-75-5	2 - Nitrophenol	ND	mg/L		0.01	no standard	
IP04	91-58-7	2- Chloronaphthalene	ND	mg/L		0.001	0.56	
IP04	105-67-9	2,4 - Dimethylphenol	ND	mg/L		0.01	0.14	
IP04	121-14-2	2,4 - Dinitrotoluene	ND	mg/L		0.01	0.00011	Y
IP04	88-06-2	2,4,6 - Trichlorophenol	ND	mg/L		0.01	0.0032	Y
IP04	120-83-2	2,4-Dichlorophenol	ND	mg/L		0.01	0.0032	Y
IP04	51-28-5	2,4-Dinitrophenol	ND	mg/L		0.01	0.014	
IP04	606-20-2	2,6- Dinitrotoluene	ND	mg/L		0.01	no standard	
IP04	95-57-8	2-Chlorophenol	ND	mg/L		0.01	0.035	Y
IP04	91-94-1	3,3'-Dichlorobenzidine	ND	mg/L		0.01	0.000078	Y
IP04	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg/L		0.01	no standard	
IP04	101-55-3	4-Bromophenyl phenyl ether	ND	mg/L		0.01	no standard	
IP04	59-50-7	4-chloro-3-methyl-phenol	ND	mg/L		0.01	0.21	
IP04	7005-72-3	4-Chlorodiphenylether	ND	mg/L		0.01	no standard	
IP04	100-02-7	4-Nitrophenol	ND	mg/L		0.01	0.056	
IP04	83-32-9	Acenaphthene	ND	mg/L		0.001	0.42	
IP04	208-96-8	Acenaphthylene	ND	mg/L		0.001	no standard	
IP04	120-12-7	Anthracene	ND	mg/L		0.001	2.1	
IP04	92-87-5	Benzidine	ND	mg/L		0.01	0.00000015	Y
IP04	56-55-3	Benzo[a]anthracene	ND	mg/L		0.001	0.0000048	Y
IP04	50-32-8	Benzo[a]pyrene	ND	mg/L		0.001	0.0000048	Y
IP04	205-99-2	Benzo[b]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP04	191-24-2	Benzo[g,h,i]perylene	ND	mg/L		0.001	no standard	
IP04	207-08-9	Benzo[k]fluoranthene	ND	mg/L		0.001	0.0000048	Y
IP04	111-44-4	Bis (2-chloroethyl) ether	ND	mg/L		0.01	no standard	
IP04	108-60-1	Bis (2-chloroisopropyl) ether	ND	mg/L		0.01	0.0000048	Y
IP04	117-81-7	Bis (2-ethylhexyl) phthalate	ND	mg/L		0.003	no standard	
IP04	111-91-1	Bis(2-chloroethoxy)methane	ND	mg/L		0.01	no standard	
IP04	85-68-7	Butyl benzyl phthalate	ND	mg/L		0.003	1.4	
IP04	218-01-9	Chrysene	ND	mg/L		0.001	0.0000048	Y
IP04	53-70-3	Dibenzo(a,h)anthracene	ND	mg/L		0.001	0.0000048	Y
IP04	84-66-2	Diethylphthalate	ND	mg/L		0.003	5.6	
IP04	131-11-3	Dimethyl phthalate	ND	mg/L		0.003	0.14	
IP04	84-74-2	Di-n-butyl phthalate	ND	mg/L		0.003	0.7	
IP04	117-84-0	Di-n-Octyl phthalate	ND	mg/L		0.003	no standard	
IP04	206-44-0	Fluoranthene	ND	mg/L		0.001	0.28	
IP04	86-73-7	Fluorene	ND	mg/L		0.001	0.28	
IP04	118-74-1	Hexachlorobenzene	ND	mg/L		0.01	0.000022	Y
IP04	87-68-3	Hexachlorobutadiene	ND	mg/L		0.01	0.00045	Y
IP04	77-47-4	Hexachlorocyclopentadiene	ND	mg/L		0.01	0.042	

Iron Phoenix Groundwater Analytical Results
CDOT Ilex Bridge: WA-001925-0001-10TTO

Sample ID	CAS No.	Compound	Results	Units	Flag	Rpt Lmt	Colorado Groundwater Standard	
IP04	67-72-1	Hexachloroethane	ND	mg/L		0.01	0.00088	**Y**
IP04	193-39-5	Ideno(1,2,3-cd)pyrene	ND	mg/L		0.001	0.0000048	
IP04	78-59-1	Isophorone	ND	mg/L		0.01	0.14	
IP04	91-20-3	Naphthalene	ND	mg/L		0.001	0.14	
IP04	98-95-3	Nitrobenzene	ND	mg/L		0.01	0.014	
IP04	62-75-9	N-Nitrosodimethylamine	ND	mg/L		0.01	0.00000069	**Y**
IP04	621-64-7	N-nitrosodi-n-propylamine	ND	mg/L		0.01	0.000005	**Y**
IP04	86-30-6	N-Nitrosodiphenylamine	ND	mg/L		0.01	0.0000016	**Y**
IP04	87-86-5	Pentachlorophenol	ND	mg/L		0.01	0.000088	**Y**
IP04	85-01-8	Phenanthrene	ND	mg/L		0.001	no standard	
IP04	108-95-2	Phenol	ND	mg/L		0.01	2.1	
IP04	129-00-0	Pyrene	ND	mg/L		0.001	0.21	

BDL = Below Detection Limit
mg/L = milligrams per liter
BOLD = detection
Y = Exceedance

APPENDIX 1

FIELD LOG BOOK

Location On-Site Date 3/7/2013

Project / Client Locates / Boring Locations

Wx: 60, Mostly Sunny, no wind

13:05 RW03 depicted on map in poor placement (PVC well)

GPS Point

1582490.14

3257032.48

14:30 Offsite

(ABW)

Location Spokane Metal Date 3/11/2013

Project / Client Additional Site Characterization

Wx: Mostly Cloudy, 40's, N. Breeze

08:30 Onsite

w/ Blake w/ Drill Pro

Ken

+ Don Garcia w/ CDOT → key to Spokane Metal

located on Erie 659 8220 (719)

- Discuss SOW + Tailgate HASP

- Will start on Western portion of Spokane

09:20 Start Advance GRID 10

4-point composite

0-1' - Olive gray / black, moist, asphalt and fill material, metal debris present - bolts, copper wire, slight odor

1-2' - Black / olive gray, moist, black coal fill with metal debris present

Unconsolidated | 0.0 ppm

Samples collected: → 0935

SPKN-10 (1-2) - Metals / TCLP (Pb)

SPKN-10 (1-2) D

09:30 Hand auger in grid 11 (1-2) (grab sample)

Same soil description as grid 10

Limited space: 1 point sample - SPKN-11 (1-2)

0 ppm Metals

Location Spokes Metal Date 3/11/2013

Project / Client Additional Site Characterization (ASC)

WO: SA

0935

Grid 9 begin advance of 5 point composite

0-1' - Light gray / olive gray, unconsolidated, fill / base material, poorly sorted, dry

1-2' - black, coal-based fill material, moist poorly sorted brick debris present

Sample collected @ 0950

SPKN-9-(1-2) Metals composite

0 ppm

A. B. Unyn (ABN)

Location Spokes Date 3/11/2013

Project / Client ASC

WO: SA

Grid 21 - begin geoprobe advance at 0955 - 3 point metals composite

0-1' asphalt, olive gray / dark gray, moist, black tar lenses, debris (brick, metal) unconsolidated fill.

1-2' dark gray / black unconsolidated fill material, red brick, coal, larger gravel intersparsed, (granite, limestone)

3 point composite sample taken for metals:

1000 SPKN-21 (1-2) Metals

0.0 PPM

A. B. Unyn (ABN)

Location Spokane Date 3/11/2013

Project / Client ASC

Wx-SA

1005 - Grid 30 begin advance, 1 sample collected from partial grid.

0-1' Same as grid 21 without any debris

1-2' Same as grid 21 without brick debris

1009 - Sample collected from 1-2' for metals

SPKN-30 (1-2) Metals (GRAB)

0 PPM

A. B. Umyn (ABW)

Location Spokane Date 3/11/2013

Project / Client ASC

Wx-SA

1012 - Grid 29 begin advance of 3 point composite Metals and TCLP (Pb) samples.

0-1' light brown/tan, poorly sorted, dry, organic matter, loose fill material

1-2' Olive gray, dry, poorly sorted, loose fill material with larger gravels

3 point composite sample collected at 1020

SPKN-29 (1-2) Metals, TCLP (Pb)

(0.0 PPM)

A. B. Umyn (ABW)

Location Spokane Date 3/11/2013

Project / Client ASC

WX: SA

1025 - Begin advance of 1 boring on grid 31 (partial)

0-1' - Same as 29

1-2' - Same as grid 29

1025 Sample collected from 1 boring at 1-2':
SPKN-31(1-2') Metals
(0.0 PPM)

(ABW)

Location Spokane Date 3/11/2013

Project / Client ASC

WX: SA

1030 - Grid 20, begin advancement of 5 borings for metals and TCLP (Pb)

0-1' Light brown unconsolidated loose fill material containing gravels, broken glass fragments, black tar sandy silt material, dry

1-2' Brown, soft sandy clay, moist, with red brick debris, weathered brick mortar (wht)(sandy), black coal particles interspersed

1045 - Samples taken from 5 point composite:
SPKN-20(1-2) Metals, TCLP(Pb)
(0.0 PPM)

(ABW)

Location Spokeen Date 3/11/2013

Project / Client ASC

WX:SA

1100 - Begin advancement of 5 borings for composite sampling in grid 8. Sampling for Metals, PCB, PAH, and TCLP (Pb)

- All Duplicates collected @ GRID 8

Metals, TCLP (Pb), PCBs + PAH

11:20 SPKN8(1-2) + SPKN8(1-2)D

0-1' light brown medium gravels, dry, black based coal fill with medium gravels other poorly sorted unconsolidated loose fill material

1-2' Light tan, well sorted silty fine sand with visible mica particles, dry, medium gravel towards top of layer.

(0.0 PPM)

(ABW)

Location Spokeen Date 3/11/2013

Project / Client ASC

WX:SA

1120 - Begin Grid 19 - 5 point composite sample for metals

0-2' - Loose fill material, brick, metal, glass, burned organic matter, some dark sand and medium gravel.

11:40 Craig Clarke w/ CDOT onsite - discuss SW corner / disturbed soil → will meet w/ Craig

1145 - 5 point composite metal sample:

SPKN-19 (1-2) Metal

(0.0 PPM)

(ABW)

Location: Spokane Metal Date: 3/11/2013

Project / Client: ASC

WX: SA

1145 - Grid 28 begin advancement of geoprobe. 5 point composite metal sample

0-2' - Same as grid 19 with suspect asbestos containing material (insulation) see pic

1205 - 5 point composite sample collected: SPKN-28(1-2)

Note: Alert lab to the fact that there may be asbestos present in sample jars. (0.0 PPM)

(ABN)

Location: Spokane Metal Date: 3/11/2013

Project / Client: Additional Site Characterization

WX: 50s, Mostly Sunny, 10mph breeze

12:50 - Begin boring in grid 7 - 5 point composite and TCLP samples.

01' - Dark gray, dry, fine grained sand with glass and metal debris, medium gravel

1-2' Light brown, dry-moist, fine grained, well sorted, micaceous, sand, no structure present

13:10 5 point composite sample collected from grid 7: SPKN-7-(1-2) Metals, TCLP (Pb) (0.0 PPM)

(ABN)

Location Spokan Metal Date 3-11-13

Project / Client CDOT Flex / ASC

WX: SA

1310: Grid 18 - 5 point composite metals
Sample from 1-2' interval.
0-1' Same as grid 7
gradation from 0-1 and 1-2
Light tan, gravelly sand grading downwards to the same well sorted fine sand as seen in grid #7.
13:20 - 5 point composite sample taken from grid 18:
SPKN-18(1-2) Metals
(0.0 PPM)

(AGW)

Location Spokan Metal Date 3-11-13

Project / Client CDOT, Flex Bridge / ASC

WX: SA

13:20 - Grid 27 - Begin advance of 5 borings to collect 5 point composite sample for Metals.
0-2' - Same as 0-1' from grid 7 with glass and greenish/blue oxidized material, metal, medium gravel.
13:45 - 5 point composite sample from grid 27:
13:40 Crab Cooker onsite SPKN-27(1-2)
(0.0 PPM)

(AGW)

Location Speken Metal Date 3-11-13

Project / Client CDOT / Ilex Bridge / ASC

WX: SA

GRID 26

Int.	Rec.	Description	PID
0-2	75%	Same as grid 7 with metal, glass, organic matter present	
2-3	75%	Same as above	
3-6	75%	Light brown, well sorted fine-medium grained sand, moist, fine gravel interspersed	
6-7	75%	Same as above	
7-8	75%	Same as 0-2' with greenish oxidation, glass and metal	
8-10'	75%	Same as 3-6, moist to wet at bottom near 10' with rock (granitic)	
10-14	~~75%~~ 50%	Light brown, medium to large gravel with medium sands, poorly sorted, wet, angular	

1415: Grab sample taken from WAMW 7:

1435 Deep sample: SPKN-26 (7-8) Metals

5 point composite sample taken from grid 26: SPKN-26 (1-2) Metals (0.0 PPM)

Location Speken Metal Date 3-11-13

Project / Client Ilex Bridge / CDOT / ASC

WX: SA

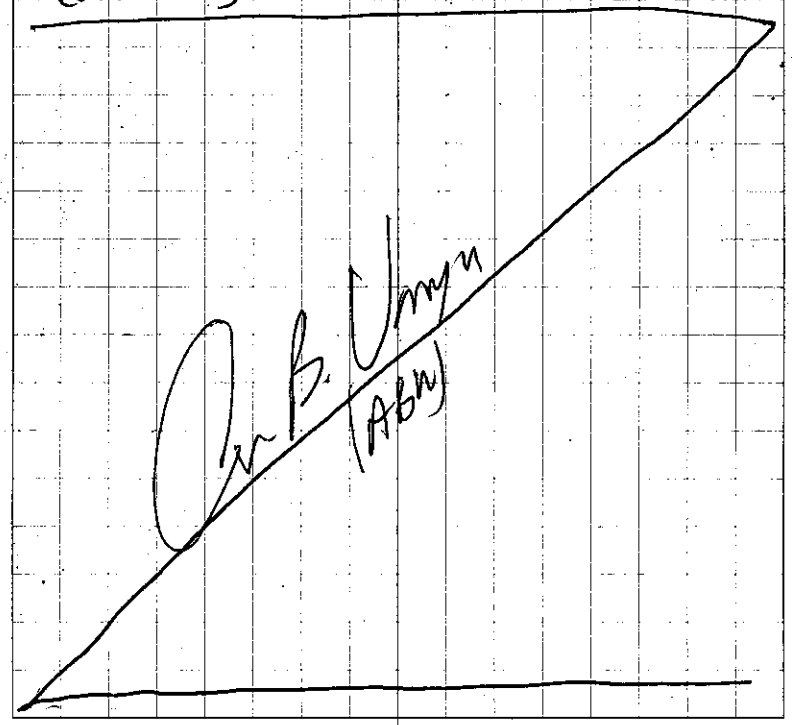
1440 - Grid 6, begin advancement of 5 borings for composite metals sample and TCLP(Pb) sample.

1510 Collect SPKN6 (1-2) Metals, TCLP(Pb)

0-1' Same as grid 7

1-2' Same as grid 7

(0.0 PPM)



Location Speken Metal Date 3/11/2013

Project / Client ASC

WX: 50-60, mostly sunny, lt. breeze

15:00 start Advancement @ GRID 17
5-point composite sample
0-1' same as grid #7
1-2' same as grid #7
15:15 - collect 5 point composite sample from grid 17 for metals:
SPKN-17(1-2)
(0.0 PPM)

(ABN)

Location Speken Metal Date 3-11-13

Project / Client Flex / CDOT / ASC

Sunny, 60°, lt. breeze

15:15 Begin advancement @ grid #5 for 5 point composite metal and 2 deep metal and PCB samples.
0-2' - Same as grid #7
2-5' - Brown, moist, cohesive, silt with lenses of fine grained sandy silt, soft.
5-7' - Brown, fine grain sand, wet, medium sized gravel interspersed, angular
7-10' Same as grid 26 10-14', wet, angular gravel particles, poorly sorted sands fine-course
15:45 - Collect 5 point composite sample:
SPKN-5(1-2) Metals
collect addition samples at depth.
SPKN-5 (4-6) Metals, PCBs
SPKN-5 (8-10) Metals, PCBs
(0.0 PPM)

(ABN)

Location Spokan Metal Date 3-11-13

Project / Client ASC

WX: SA

1545 - Grid 16 - begin advancement for 5 point composite sample from 1-2' for TCLP and metals and dep samples at 4-6' and 8-10' for PCBs and metals.

0-2' - Same as grid #7 0-1'

2-8' - Same as grid #7, 1-2'

8-10' - Same as grid #5, 7-10'

1600 - Samples collected from 4-6' and 8-10' for metals and PCBs

1605 - 5 point composite sample collected from the 1-2' interval:

SPKN-16(1-2) Metals, TCLP (Pb)

(PID 0.0 ppm)

(ABH)

Location Spokan Date 3-12-13

Project / Client Flex / CDOT / ASC

WX: 31/5, M. ~~Sunny~~ Cloudy, NW breeze

0800 - Arrive on site, tailgate safety meeting with Blake and Ken from drill-pro. Resume geoprobe investigation on the Spokan Parcel.

Tailgate HASP discussion

Calibrate PID

(ABH)

Location Spokeen Date 3-12-13

Project / Client Flex / CDOT / ASC

Cloudy, 30's, lt. breeze

0820 - Grid 4 - begin advancement of 5 borings to collect 5 point composite sample for metals and metals duplicate ~~and~~ at 1-2' interval and metals and PCBs at 4-6' and 8-10' interval.

0-2' - Black, sandy, loose fill material containing debris (glass, metal)

2-6' - Brown/light brown, dry, platy structure, salt, with white oxidation

6-~~10~~ 8' - Light brown, well sorted, course sand, moist, with fine gravel interspersed

8-10' - poorly sorted course sand and course gravels, light brown, moist, angular

0835 - Samples taken from 4-6' and 8-10' interval
SPKN-4 (4-6) Metals, PCBs
SPKN-4 (8-10) Metals, PCBs

0845 - Sample collected - 5 point composite for metals and duplicate
SPKN (1-2) Metals and metals duplicate
(0.0 PPM)

(ABW)

Location Spokeen Date 3-~~13~~ 12-13

Project / Client ASC

Wx: SA

0845 - Grid 15 - begin advancement for 5 point composite metals sample from 1-2' interval. Additional samples at depth: 4-6' - metals, TCLP, PCBs and 8-10'. metals, PCBs

0-6' - Unconsolidated fill material, with medium - course sands and gravel - geoprobe flight was observed "falling" through - very loose packed material.

6-8' - Same as grid 4 - 6-8'

8-10' - Same as grid 4 - 8-10'

0910 - Sample taken from 5 point composite for Metals:
SPKN - 15 (1-2) Metals

0915 - Samples taken from depth: 4-6' and 8-10':
SPKN-15 (4-6) Metals, TCLP, PCBs
SPKN-15 (8-10) Metals, PCBs
(0.0 PPM)

(ABW)

Location Spokan Date 3-12-13

Project / Client ASC

30's, lt. wind, cloudy, lt. snow fall

0915 - Grid 25 - Begin advancement for 5 point composite sample for metals at 1-2' interval. Collect samples at 4-6' and 8-10' interval for metals and PCBs analysis.

0-2' - Same as grid 4 (0-2')

2-8' - Same as grid 4 (6-8')

8-10' - Same as grid 4 (8-10') water @ 10'

0930 - 5 point composite sample collected from 1-2' interval for metals: SPKN-25(12) metal

0930 - Samples collected from 4-6' and 8-10' for metals and PCBs:

SPKN - 25 (4-6) Metals, PCBs

SPKN - 25 (8-10) Metals, PCBs

(0.0 PPM)

(ABW)

Location Spokan Date 3-12-13

Project / Client ASC

Wx: SA

0940 - Grid 24 - Begin advancement for 5 point composite for metals from 1-2' interval. And advancement in one boring to 4-6' and 8-10' for metals and PCBs

0-2' - Same as grid 4 (0-2')

2-4' - Same as grid 4 (6-8')

4-6' - Same as grid 4 (2-6') with iron oxidation

6-10' - Same as grid 4 (8-10') water encountered at 9'

1005 ~~1010~~ - Samples collected from 4-6' and 8-10' intervals:

SPKN - 24 (4-6) Metals, PCBs

SPKN - 24 (8-10) Metals, PCBs

1010 - 5 point composite sample collected from 1-2' interval:

SPKN - 24 (1-2) Metals

(0.0 PPM)

(ABW)

Location Spokan Date 3-12-13

Project / Client ASC

WX:SA

1040 - Begin advancement in grid 14 for 5 point composite sample metals. Duplicate 5 point metal sample will be collected from this grid as well

1045 - Glen with drill pro is on site to assist with the drilling activities.

0-2' - Dark, sandy, loose fill material, metal, wood, glass debris present, course gravel, dry

1050 : 5 point composite metal and duplicate metal sample collected from grid 14:

SPKN-14(1-2) Metal, Dup

(0.0PPM)

(ABN)

Location Spokan Date 3-12-13

Project / Client ASC

WX:SA

1100 Grid 3 - begin advancement of 5 borings to 2' for metals, PCB, PAH samples from 5 point composite sample at 1-2' interval.

1120 John and Patrick with Jacobs onsite to discuss investigation and suspect ACM debris.

0-2' - Same as grid 14 (0-2')

1135 - Drill Pro gets flat tire and proceeds to change

1140 - Samples collected from 5 point composite at grid 3:

SPKN-3(1-2) Metals, PCBs, PAHs

(0.0PPM)

(ABN)

Location Spokeen Date 3-12-13

Project / Client ASC

WX: SA

1245 - Grid 2 - Begin advancement to collect 5 point composite sample for metals at 1-2' interval.

0-1' - Same as grid 4 (0-2')

1-2' - Light brown, silty sand, moist, well sorted fine grain sand

1305 - 5 point composite sample collected at 1-2' interval for metals:

SPKN-2 (1-2) Metals

(0.0 PPM)

(ABN)

Location Spokeen Date 3-12-13

Project / Client ASC

WX: SA

1310 - Grid 1 - begin advancement for 5 point composite metals sample from 1-2' interval

0-1' Same as grid 4 (0-2')

0-2' Same as grid 2 (1-2')

1330 - Collect 5 point composite sample from 1-2' in grid 1:

SPKN-1 (1-2) Metals

(0.0 PPM)

(ABN)

Location Spokeen Date 3-12-13

Project / Client ASC

WX:SA

1330 - Grid 12 - begin advacement to collect 5 point composite sampler from 1-2' Interval.

0-1' - Same as grid 4 (0-2')

1-2' - Same as grid 2 (1-2')

1355 - Sample taken from grid 12 1-2' interval 5 point composite sample.

SPKN-12 (1-2) Metals

(0.0 PPM)

(ABN)

Location Spokeen Date 3/12/2013

Project / Client ASC

WX:SA

1355 - Grid 13 - begin advancement - 5 point composite sampling in grid 13.

0-1' - Same as grid 4 (0-2')

1-2' - Same as grid 2 (1-2')

1415 - Sample taken from grid 13, 1-2' interval. 5 point composite sample for metal and TCLP(Pb)

SPKN-13 (1-2) Metal

SPKN-13 (1-2) TCLP(Pb

(0.0 PPM)

(ABN)

Location Spokeen Date 3/12/2013

Project / Client ASC

WXI SA

Grid 23

1445 - Begin advancement of 5 borings for 5 point composite sampling. Also advancing WAMW6 and collecting another metal above water table.

04' - same as grid 4 (0-2') - 25% recovered

1530 - Sample collected - 5 point composite for metals

2-4' - Dark grey / black, loose fill material, debris consisting of glass, metal, moist.

4-6' - Light brown, moist, fine grain sand, pyrite, mica visible

6-14' - ~~Poor~~ Pink, light brown, poorly sorted 0-9' course grain sand and course grain gravel, wet at 9'.

15:40 - Sample collected from WAMW6 at 8-9' interval for metal:

SPKN-23 (8-9) Metals.

16:00 start advancement HSA ⑤ WAMW6 (0.0 PPM)

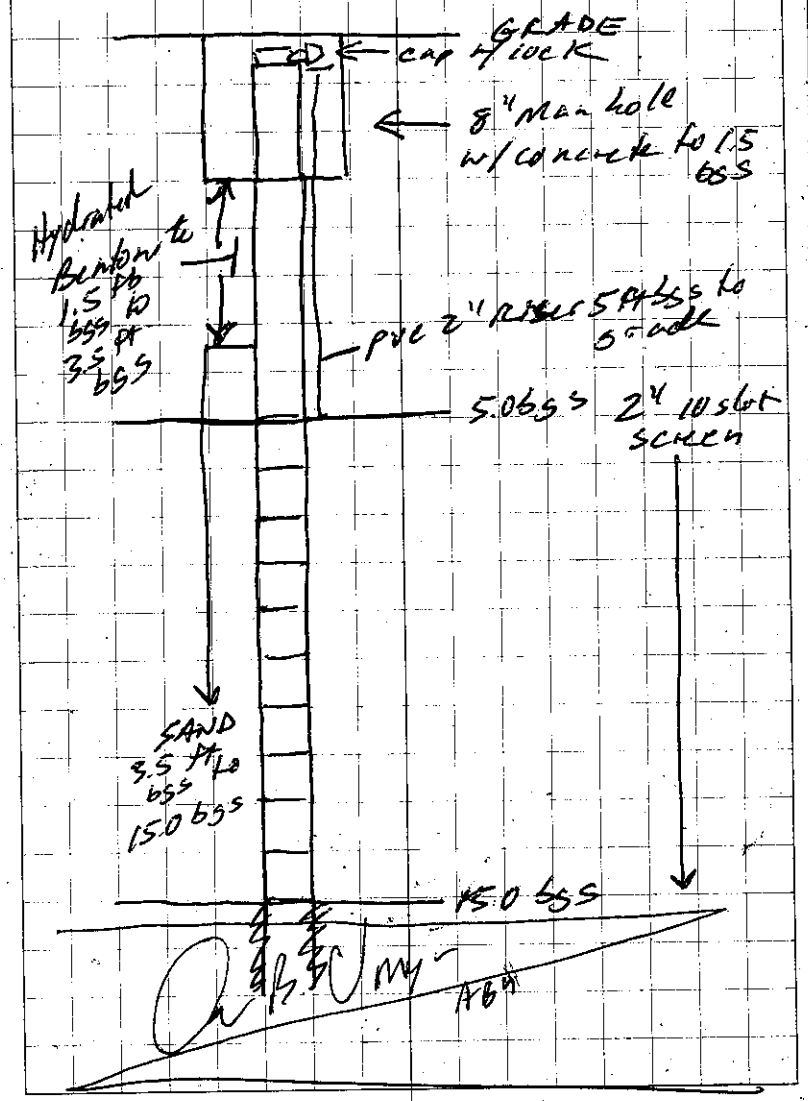
(ABH)

Location Spokeen Date 3/12/2013

Project / Client ASC

WXI SA

WAMW6 Construction



(ABH)

Location Spokan Date 3/12/2013

Project / Client ASC
NX:SA

16:55 start advance 5-point composite in BRIDZZ
SPKN22(1-2) collected for metals, TCLP lead, PCBs + PAH

0-2' Same as grid 23 (2-4')

1710 - Collect the 5 point composite sample for metals, TCLP(Pb), PAH, PCBs from grid 22:

SPKN-22(1-2') Metals
" TCLP (Pb)
" PAH
" PCB'S

(0.0 PPM)

(AMW)

Location West Hill - ASC Date 3-13-13

Project / Client Loc: WH-03: 1552342.01N, 3256767.03E

Sunny, high 30's, no wind

0800 - Meet up w/ Blake and Glen with drill pro at Spokan parcel. Tailgate safety briefing and discuss strategy for the day.

0815 - head over to west Hill parcel begin investigation.
Begin advancement of WH03 towards the N side of the parcel. Sampling for metals at two depths within each of the 3 borings.

0825 - Collect sample from 5-6' interval for metals analysis.
WH-03(5-6) Metals

0830 - Collect sample from 9-10' interval for metals analysis:
WH-03(9-10) Metals (0.0PPM)

0-1' - Olive gray, silt, platy structure, dry, organic matter present

1-10' - Light brown, loose fill material, Coarse sand, course gravel and silt, debris present including glass, metal and rust-colored oxidation. Dry from ~0-4' then becoming moist down to 10'. Flat, platy coal debris also present within this interval.

Location West Hill Date 3-13-13

Project / Client ASC

Location: WH-02- 1582249.55N, 3256775.15E

0830 - Begin advancement of WH-02 for 2 samples at depth for metals analysis.

0832 - Collect sample from 5-6' interval for metals analysis:
WH-02(5-6) metals

- 6-10ft bgs → 2" Recovery in boot/shoe → gravelly, ⊗
- No deep (greater than 6' sample collected)

0-1' - Same as WH-03(0-1')

1-6 - Same as WH-03(1-10') with more moody organic material present.

(0.0 PPM)

(ABN)

Location West Hill Date 3-13-13

Project / Client ASC

Location: WH-01- 1582142.08N, 3256771.56E

0835 - Begin advancement of WH-01 for metals samples (2) at depth.

0845 - Collect metal sample from 5-6' interval:
WH-01(5-6) Metals

0-1' - Same as WH-03(0-1')

1-10' - Same as WH-03(1-10) without metal glass debris, still coal particles present

0850 - Collect metal sample from 9-10' interval:
WH-01(9-10) Metals

0900 - complete West Hill and Head over to the Rock Wool parcel to complete 2 borings.

(0.0 PPM)

(ABN)

Location Rockwool Date 3-13-13

Project / Client ASC

WX: SA

0903 - Begin advancement of 10' bore hole - RW-04 for metals sampling at depth.

0-1' - Light brown, sandy, poorly sorted, angular, medium gravel, moist

1-2' - Olive gray, poorly sorted, medium - course grained sand, angular with course gravel interspersed, moist, fill material

2-4' - Light brown, sandy silt, platy structure, moist

4-10' - Light brown - dark gray, poorly sorted course sand and medium gravel, moist angular, fill material

0905 - Collected samples from 5-6' and 9-10' interval for metals analysis:

- RW-04 (5-6) Metals
- RW-04 (9-10) Metals (0.0PPM)

Location: 158243.91N, 325702.28E

A. B. Umyr (ABN)

Location Rockwool Date 3-13-13

Project / Client ASC

WX: SA

0920 - Begin advancement of boring RW-05 for (2) metal samples at depth.

0-4' - Same as RW-04 (1-2) - moist

4-5' - Black coal fill.

5-6' - Same as RW-04 (4-10)

6-10' - Black coal based fill.

0925 - Collect metals sample from 4-5': RW-05 (4-5) Metals

0930 - Collect metals sample from 9-10': RW-05 (9-10) Metals (0.0 PPM)

Location - RW-05: 158218.99N, 325703.16E

MultiRAE - VOC calibration = 115ppm with 100 ppm calgas

Calibration @ 0955

A. B. Umyr (ABN)

Location Spokane Date 3-13-13

Project / Client ASC

40°, sunny, lt. breeze

0945 - Begin auger advancement of WAMW7 to a depth of 15' bgs.

WAMW7 - Construction of well completed at 1030

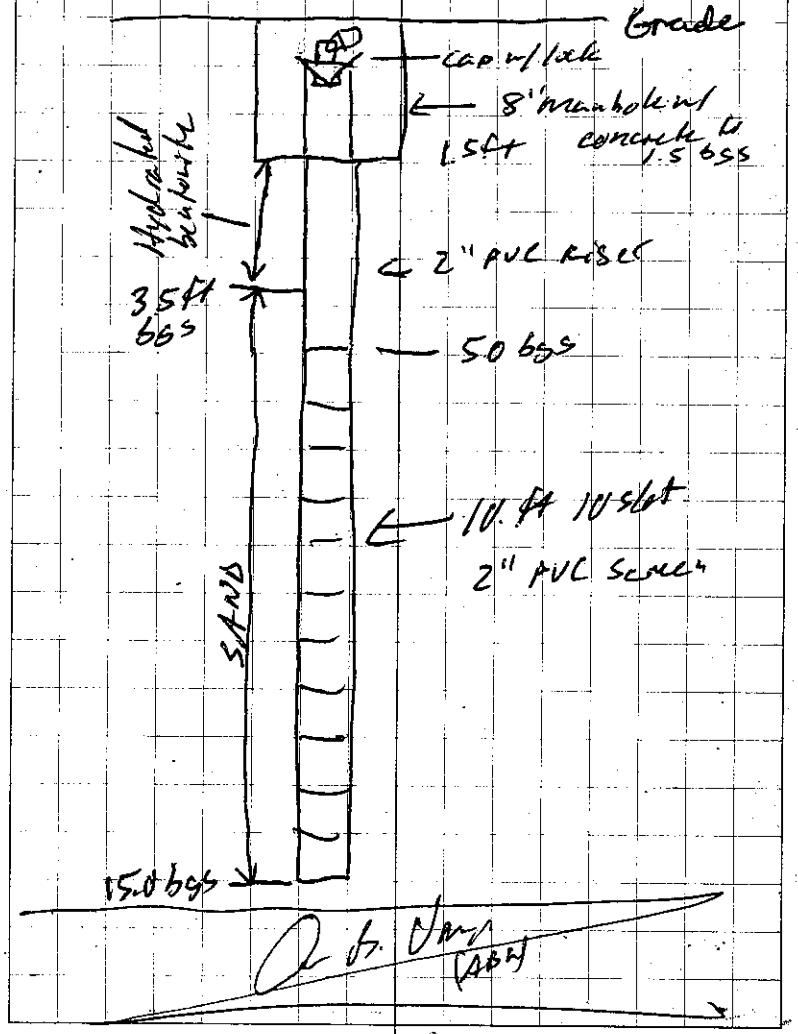
A. B. Olsen (ABH)

Location Spokane Date 3-13-13

Project / Client

Location: 1581599.74N, 3256752.10E

WAMW7 construction



A. B. Olsen (ABH)

Location Cliff Brice Date 3-13-13

Project / Client ASC

WX:SA

1030 - Begin geoprobe advancement at WAMW4 to ground water for collection of metals, GRO, DRO, VOC, PAH samples at 2 depth intervals

0-4' - Gray, loose fill material, dry, unconsolidated

4-6' - light brown, sandy silt, moist, fine grain no structure, sand present, rust colored oxidation present

6-10' - Same as Spoken grid 23 (6-14'), ground-water at 9.5'

1045 - collect samples at 4-6' and 8-10' intervals from WAMW4:

WAMW4 (4-6) Metals, GRO, DRO, VOC, PAH

WAMW4 (8-10) Metals, GRO, DRO, VOC, PAH

(0.0 PPM)

[signature] (ABN)

Location Cliff Brice Date 3-13-13

Project / Client ASC

WX:SA

1100 - Begin geoprobe advancement at WAMW5 to ground water depth for collection of metals, DRO, GRO, VOC, PAH at (2) depth intervals, + DUP - GRO, DRO

0-3' - Olive gray, loose fill material, unconsolidated, course gravel, medium to fine sand, and silt, dry, black coal present

3-6' - Light brown, fine grain silty sand, moist, well sorted, mica minerals present

6-10' - Same as spoken grid 23 (6-14') ground water at ~9.5' bgs

1105 - collect sample at 4-6' interval from WAMW5:

WAMW-5 (4-6) Metal, GRO, DRO, VOC, PAH, DUP DRO, GRO

1110 - Finish up with Cliff Brice and head to Wagner.

- Collect sample at 8-10' interval from WAMW-5:

WAMW5 (8-10) Metal, GRO, DRO, VOC, PAH

(0.0 PPM)

[signature] (ABN)

Location Wagner Date 3-13-13

Project / Client ASC

WX: SA

1115- Begin advancement at WAMW3 for collection of (2) VOC samples at depth.

0-2'- Light gray, dark gray, unconsolidated loose fill material; sand, silt, gravel, dry.

2-7' - Light brown, medium grained silty sand, moist, well sorted with medium gravel interspersed

7-10' - Light brown, course sand, course gravel, poorly sorted, moist to 8', wet 8-10', angular sand and gravel.

1125 - Collect samples at the 4-6' and 7-8' intervals:

WAMW3(4-6) VOC

WAMW3(7-8) VOC + DUP VOC

(0.0 PPM)

(ABN)

Location WAGNER Date 3-13-13

Project / Client ASC

WX: SA

1133- Begin advancement of WAMW01 - for collection of 2 VOC samples at depth.

* First 3 attempts refusal @ a 1.0 ft bgs. Compacted Flags to refusal clay.

- 4th Attempt = Refusal

Will advance borings / well with HSA to collect soil samples and install GW monitoring well.

(ABN)

Location Wagner Date 3-13-13

Project / Client ASC

WX: SA

1150- WAMW-2 - refusal at surface, will return on thursday with auger rig to install monitoring well and collect VOC samples.

(ABW)

Location Wagner Date 3/14/2013

Project / Client ASC

Wx: 40s, Sunny, H. wind

08:10 Onsite

Tailgate HASP

- ~~Need~~ @ Discuss SOW
- Need equipment moved @ Wagner to advance WAMW1
- Drill Pro Eric + ~~Dc~~ GLEN onsite w/ 2 vehicles

Diedrich D-120 + Support Vehicle

08:50 Start Advance @ WAMW1

Split spoon: 5-7 + 10-12 ft bgs interval... until GW is encountered + 5 (five) feet for sufficient water column.

- Blow count 2, 2, 3, 3

5-7' - Brown, sand, wet, well sorted, medium-fine grain.

- wet @ 6' bgs

0900 Collect WAMW1 (5-6) for VOCs

PID = 0.0 ppm

- Rocks + GW @ 7.0 ft bgs

Location: Wagner Date: 3/14/2013

Project / Client: ASC

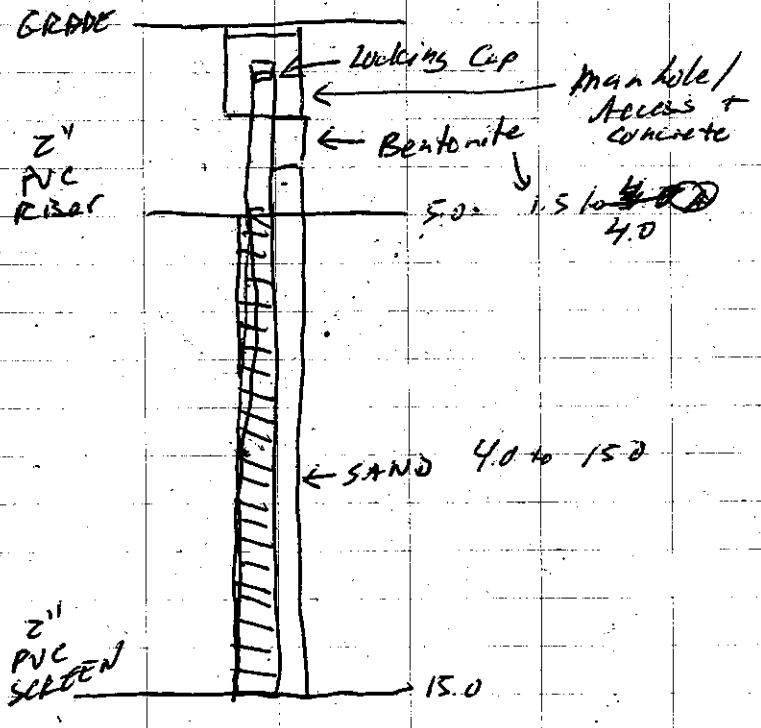
Wx: 40s, Sunny, no wind

10-12 ft bgs coarse SAND, ≈ 25% recovery not sr.

0910 Collect WAMW1 (10-12) VOCs

Will advance well to 15.0 ft bgs.

Not enough recovery for headspace analysis @ 10-12 ft bgs interval



N 1580603.53

E 3257094.18

Location: Wagner Date: 3/14/2013

Project / Client: ASC

Wx: 50s, Sunny.

1010 Start advance WAMW2

1015 Collect WAMW2 (0.5-1.0) VOCs

1020 - 5-7 ft bgs blow count (5, 7, 8, 12)

Collect WAMW2 (5-6) VOCs

~~1020 WAMW 2 - 6.0'~~

5-7' light brown, Sandy gravel, moist, poorly sorted, angular

9' bgs - ow encountered

WAMW2 location -

N 1580712.70

E 3256994.65

- WAMW2 construction - same as WAMW1 construction @ 10:50

1100 leaving cones on well covers overnight / overweekend to allow for cement to cure.

(AMW)

Location Wagner Date 3/14/2013

Project / Client ASC

WX: 60s, Sunny, no wind

WAMW3 1580900.01 N
3257132.31 E

11:45 start advance @ WAMW3 → to 15ft bgs: no soil sampling

- Well construction similar to WAMW1 + WAMW2

12:45 Well completed

ABN

Location Cliff Brice Date 3/14/2013

Project / Client ~~WA~~ ASC

WX: 70s, Sunny, S wind breeze

13:40 start advance @ WAMW-5 to 15ft bgs: no soil sampling

- Well construction similar to WAMW1, WAMW2 + WAMW3

15:15 Well completed

15:15 Start Advance @ WAMW4 to 15ft bgs: no soil sampling

- Well constructed similarly to WAMW1, WAMW2, WAMW3 + WAMW5

16:20 Well completed

ABN

Spokane Metal 3/14/2013
ASC

WX: > A

13:15 Well Development WAMW6
— Very turbid, turbid after 10 vol development w/ bailer

	In-Situ Reading				
T	mS/cm³	D.O.	pH	ORP	Gal
13.44	0.737	0.57	7.64	-504.	Ø
13.26	1.038	3.66	7.49	-114	1
13.28	0.943	3.70	7.45	-176.5	2
12.85	0.951	3.62	7.44	-172.4	3
13.19	0.940	5.26	7.47	-135.7	4
12.92	0.940	5.12	7.47	-106.9	5

After purge
DTW = 8.57
DTB = 14.10

T	mS/cm³	D.O	pH	ORP	GAL
13.08	0.991	5.45	7.42	46.3	6
12.49	0.942	5.59	7.42	-6.3	7
12.52	0.887	4.06	7.39	137.8	8
12.51	0.885	4.07	7.40	-124.3	9
12.54	0.840	4.01	7.45	-126.7	10

After 10 gal = DTW = 8.55

2" well 0.163 gallons/ft

DTW = 08.50
DTB = 14.10
Δ = 5.60 ft = 0.91 gal/well volume

Spokane Metal 3/14/2013
ASC

WX: 70s, Hot + Sunny, no breeze

14:45 Well Development WAMW7

(2" well 0.163 gal/ft) DTW 8.92 DTB 14.59 Δ 5.67 = 0.95 gal/well

T	mS/cm³	D.O.	pH	ORP	GAL
NR	NR	NR	NR	NR	0
14.32	0.649	4.64	7.78	10.4	1
14.28	0.645	4.35	7.51	-25.3	2
14.36	0.644	4.31	7.48	-33.5	3
14.36	0.644	4.27	7.49	-36.5	4
14.34	0.643	4.19	7.51	-40.2	5

— stable and relatively clear after 5 volumes

* Both WAMW6 + WAMW7 developed w/ weighted disposable bailer

— Tops of IAW drums left onsite labeled w/ description of waste, type + origin. Waste phase number + date also listed

Location: AN sites Date: 3/14/2013

Project / Client: ASC

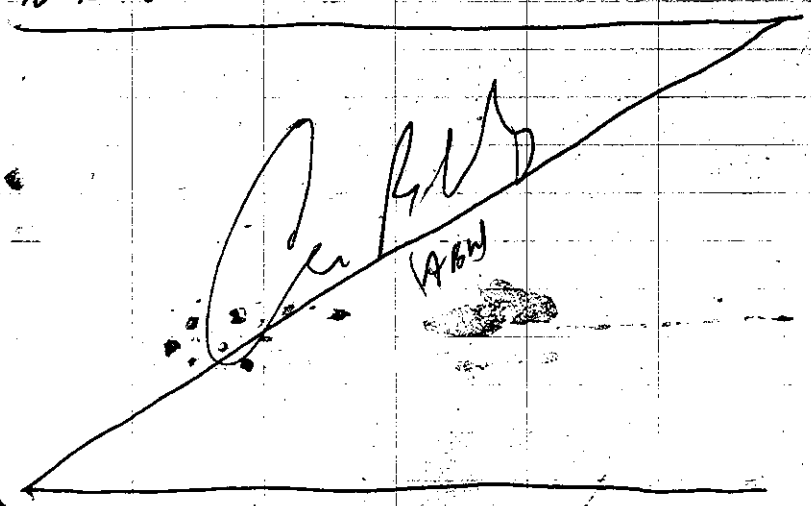
WX: 70s, hot, lt. breeze

- 6 drums onsite
  1 each purge water:
  1 each soil cuttings:
  for Cliff Boice, Spencer Metal, + Wagner Rental

- Site Needs for GW Sampling
  Tool kit
  Buckets w/ LIDS
  Tubing (Dow well + silicone)
  Drum Labels / Stickers

- Stage drums / Site Clean-up

16:45 Offsite



Location: Cliff Boice + Wagner Date: 3/15/2013

Project / Client: ASC - Well Development

WX: Overcast, 40s, S mpl breeze

07:15 Onsite
- All wells to be developed w/ disposable weighted bailer 5-10 well volumes
- Setup drums / Spencer site for holding IDW

07:35 WAMW1 DTW = 5.43 DTB = 14.39
A = 8.96 well vol = 1.46

T	mg/cm³	D.O	pH	ORP	GAL
13.58	0.877	4.54	8.35	204.3	0
12.51	0.916	4.87	8.35	195.0	1.5
12.55	0.942	4.42	8.43	182.2	3
12.57	0.960	4.14	8.46	164.5	4.5
12.58	0.960	3.84	8.46	133.6	6.0
12.59	0.998	3.97	8.32	133.8	7.5
12.60	1.001	4.63	8.33	94.1	9.0
12.61	0.997	4.68	8.33	93.5	10.5

- DTW @ 10 gal purge = 5.55'
- Dispose of in drum @ Spencer →
  Need (4) buckets w/ lids for GW sampling

Location Wagner Date 3/15/2013

Project / Client ASC - Well Development

Wx: Sunny 50s

08:25 WAMW2 DTW = 6.78 DTB = 14.40

A = 7.62 Well vol = 1.25

T	mS/cm³	D.O.	pH	ORP	GAL
14.54	0.575	0.31	7.03	-173.6	0
13.98	0.812	3.73	8.18	20.4	1.25
13.93	0.846	3.77	8.12	-15.7	2.50
13.97	0.837	3.72	8.06	-50.4	3.75
13.97	0.788	4.51	7.56	-20.7	5.0
14.00	0.780	4.28	7.57	-32.2	6.25
14.03	0.772	4.33	7.57	-38.6	7.50

DTW @ 7.5 gal = 6 volumes = 6.81

- Will sample on 3/18/2013 w/ Peri-Pump + disposable tubing to minimize turbidity interferences.

- Dispose in drum @ Spokeen Metal

(ABW)

Location Wagner Date 3/15/2013

Project / Client ASC - Well Development

Wx: 50s, Sunny, warmer, no wind

09:30 WAMW3 DTW = 7.72 DTB = 14.43

A = 6.71 well vol = 1.10

T	mS/cm³	D.O.	pH	ORP	GAL
14.42	0.681	0.68	7.57	74.3	0
14.75	0.674	4.39	7.53	120.1	1.25
15.08	0.656	4.19	7.59	38.7	2.25
					~~3.50~~
					~~4.50~~
					~~5.75~~
					~~6.75~~
					~~8.0~~

DRY @ ≈ 2.5 gallons

DTW @ 2.5 gallons = 2 vol = 14.00

(ABW)

Cliff Brice 3/13/2013

ASC - Well Development

Wx: 60s, P. Cloudy, Warm, H. Breeze

10:15 WAMW4 DTW = 8.99 DTB = 14.45

Δ = 5.46 vol/vol 0.87

T	µS/cm³	DO	pH	ORP	GAL
13.58	0.717	1.21	7.74	99.5	0
13.87	0.651	3.56	7.68	58.3	1
13.90	0.652	3.02	7.67	-1.4	2
13.93	0.654	3.09	7.68	-44.3	3
13.85	0.652	3.57	7.63	-51.3	4
13.86	0.638	3.21	7.64	-75.9	5
13.93	0.640	3.28	7.65	-83.0	6
13.94	0.643	3.21	7.65	-86.3	7

DTW = 9.11 @ 7 vol/@ 7 gal

purged

(ABM)

Cliff Brice 3/13/2013

ASC - Well Development

Wx: 70s / high 60s, Warm, Sunny

11:35 WAMW5 DTW = 9.43 DTB = 14.36

Δ = 4.93 well vol. = 0.80

T	µS/cm³	D.O	pH	ORP	GAL
13.87	0.770	2.23	7.81	101.3	0
14.36	0.729	4.40	7.63	14.5	1
14.33	0.701	4.61	7.71	-36.7	2

DRY @ 2.25 gal

NRZ @

NR 4 @

NR 5 @

@ 2 gal = @ 2 vols → DTW = 13.87

Stage Equipment / Drums - Clean up site / off @

13:05 off site to

Pick-up supplies for next week

Decon equip

15:45 off site

Location Wagner Date 3/18/2013

Project / Client ASC - GW Sampling

Wx: 40s, Sunny, H. breeze

06:00 Office

08:10 Onsite

Pup down area @ Spalsee make to Wagner

- Front end loader located on top at WAMW1, will have removed to start purge + GW sample.

WAMW1 DTW = 5.41 DTB = 14.71

Δ = 9.31 well vol = 1.5 l/gal

T	mS/cm³	D.O	pH	ORP	GAL
13.28	0.868	1.12	7.89	193.2	0 *
13.14	0.792	0.50	7.79	-50.7	1.5
13.13	0.792	0.35	7.69	-233.0	3.0
13.19	0.800	0.26	7.62	-259.5	4.5

Start Purge WAMW1: 08:45

End Purge WAMW1: 09:12

09:15 Collect GW Sample WAMW1

VOCs (3 - 40ml VOA w/ HCl)

+ Duplicate Sample

WAMW1D

* Collected Insitu → @ all Wells for this project

(ABW)

Location Wagner Date 3/18/2013

Project / Client ASC - GW Sampling

Wx: 40s, Sunny, H. breeze

WAMW2 DTW = 6.77 DTB = 13.70

Δ = 6.93 Well vol = 1.13

09:34 START PURGE

09:56 END PURGE

10:00 Collect WAMW2

T	mS/cm³	D.O	pH	ORP	GAL
13.75	0.814	3.01	7.56	66.3	0 *
13.88	0.742	2.02	7.53	-107.0	1.25
13.87	0.724	1.76	7.54	-125.2	2.50
13.95	0.717	1.75	7.51	-135.2	3.75

3 - 40ml VOC w/ HCl

(ABW)

Location Wagner Rental Date 3/18/2013

Project / Client ASC - Groundwater Sampling

Wx: SA

BVMW2 DTW = 8.02 DTB = 18.48

Δ = 10.46 Well vol = 1.70

10:22 Start Purge

10:52 End Purge

10:55 Collect BVMW2

T	µS/cm³	D.O	pH	ORP	GAL
14.39	0.637	0.21	7.81	166.4	0 *
15.73	0.636	0.19	7.50	144.3	1.75
15.81	0.636	0.13	7.47	120.1	3.50
15.79	0.638	0.12	7.46	112.1	5.25

3 - 40 ml VOC w/ HCl

(ABN)

Location Wagner Rental Date 3/18/2013

Project / Client ASC - Groundwater Sampling

Wx: SA

WAMW3 DTW = 7.42 DTB = 14.54

Δ = 7.12 Well vol = 1.16

11:02 Start Purge

11:20 End Purge

11:25 Collect WAMW3

T	µS/cm³	D.O.	pH	ORP	GAL
14.40	0.654	0.13	7.38	54.3	0 *
14.63	0.657	0.17	7.37	1.2	1.25
14.67	0.655	0.12	7.36	-135.5	2.50
14.68	0.655	0.10	7.35	-246.5	3.50

3 - 40ml VOC w/ HCl

(ABN)

Location Cliff Brice Date 3/18/2013

Project / Client ASC- Groundwater Sampling

WX: 50s, Sunny, Warmer, no breeze

BUMW5 DTW= 8.43 DTB= 15.07

Δ 9.64 Well vol: 1.57

11:35 Start Purge
11:56 End Purge
12:00 Collect BUMW5

T	uS/cm3	D.O.	pH	ORP	GAL
14.33	0.603	0.17	7.49	-77.9	0*
14.89	0.612	0.09	7.51	-140.2	1.75
14.95	0.614	0.46	7.47	-116.2	3.25
14.95	0.614	0.64	7.46	-99.1	4.75

3 - 40ml VOC w/ HCl
1 - 500ml plastic w/ Nitric Acid #

field filtered

(ABW)

Location Cliff Brice Date 3/18/2013

Project / Client ASC- Groundwater Sampling

WX: 60s, Sunny

WAMW5 DTW= 9.41 DTB= 14.38

Δ = 4.97 Well vol= 0.81

12:12 Start Purge
12:24 End Purge
12:30 Collect WAMW5

T	uS/cm3	D.O.	pH	ORP	GAL
13.56	0.730	1.18	7.62	-131.8	0*
13.93	0.712	0.47	7.56	-268.9	1.0
13.95	0.705	0.31	7.49	-251.2	2.0
13.94	0.706	0.25	7.46	-289.1	2.5

3 - 40ml VOA w/ HCl
1 - 500ml Plastic w/ Nitric Acid #
2 - 1000ml Amber PAH

(ABW)

Location Cliff Brice Date 3/18/2013

Project / Client ASC- Groundwater Sampling

Wx: 60, Sunny

WAMW4 DTW= 8.96 DTB= 14.20

Δ = 5.24 Wellvol = 0.85

(A)

12:48 Start Purge

13:02 End Purge

13:05 Collect WAMW4

T	µS/cm³	D.O.	pH	ORP	GAL
13.36	0.673	0.51	7.64	-76.9	0*
13.80	0.667	0.13	7.47	-253.7	1.0
13.86	0.665	0.09	7.47	-273.8	2.0
13.90	0.666	0.08	7.46	-307.7	2.75

3-40ml VOC w/ HCl

1-500ml plastic w/ Nitric Acid #

2-1000ml Amber (PAH)

(+ metals # + PAH (A) duplicate

WAMW4D

[signature] (ABM)

Location Spokane Metal Date 3/18/2013

Project / Client ASC- Groundwater Sampling

Wx: 60s, Sunny, 10+ mph gusts

WAMW6 DTW = 8.42 DTB = 13.57

Δ = 5.17 Well Vol = 0.84

13:23 Start Purge

13:40 End Purge

13:45 Collect WAMW6

T	µS/cm³	D.O	pH	ORP	GAL
12.47	0.785	1.07	7.73	142.8	0*
12.98	0.762	3.58	7.53	111.0	1.0
12.88	0.754	0.80	7.49	-48.7	2.0
12.95	0.740	0.73	7.50	-88.5	2.75

3-40ml VOC w/ HCl

1-500ml plastic w/ Nitric Acid #

2-1000ml Amber PCBs

[signature] (ABM)

Location Spokane Metal Date 3/18/2013

Project / Client ASC – Groundwater Sampling

Wx: 60s, Warm, 15mph breeze

WAMW7 DTW = 8.88 DTB = 14.59

Δ = 5.71 Well vol = 0.93

14:02 Start Purge
14:27 End Purge
14:30 Collect WAMW7

T	mS/cm	D.O	pH	ORP	GAC
13.55	0.626	0.68	7.96	153.1	0*
13.81	0.631	0.10	7.56	61.4	1.0
13.83	0.630	0.15	7.54	-9.9	2.0
13.87	0.629	0.13	7.52	-77.8	3.0

3 - 40ml VOC w/ HCl
1 - 500ml plastic w/ Nitric Acid
2 - 1,000ml Amber PCBs

(+ PCB duplicate WAMW7D)

(ABM)

Location All Sites / Spokane Date 3/18/2013

Project / Client ASC – Groundwater Sampling

Wx: 60s, Sunny, Hi breeze

Clean-up site / demob

14:50 Offsite

Additional Ice

Demob

(ABM)

APPENDIX 2

BORING LOGS AND WELL CONSTRUCTION LOGS

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SOIL BORING LOG

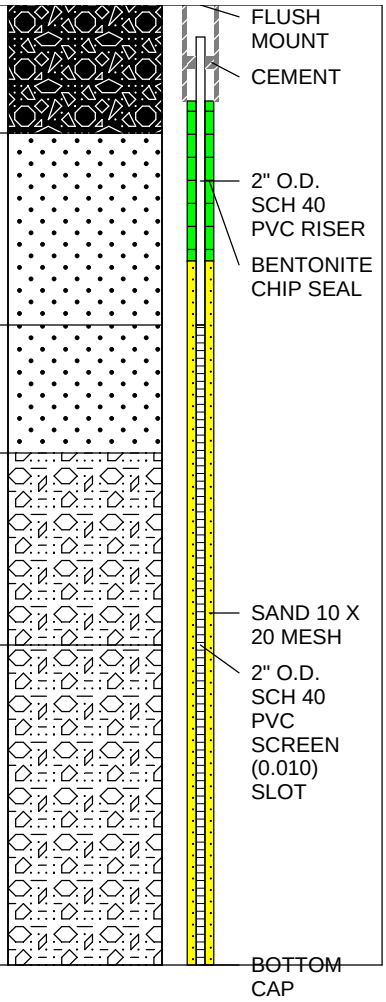
BOREHOLE NUMBER
WAMW-1

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **214 Ilex Street Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/14/13** DATE COMPLETED: **3/14/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	6 BGS	5.41 TOC
Time	8:55	8:10
Date	3/14/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION
0.0–2.0						Fill material: Compacted, light brown
2.0–5.0					SW	Sand: Fine to medium grained sand, light brown, moist, fine gravels interspersed.
5.0–7.0		0.0	1.5	WAMW1 5-7	SW	Sand: Fine to medium grained sand, light brown, moist, fine gravels interspersed.
7.0–10.0	▼				SW	Gravel and Sand: Medium sand with fine gravel
10.0–15.0			0.5	WAMW1 10-12	SP	Gravel and Sand: Medium sand with fine gravel



(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

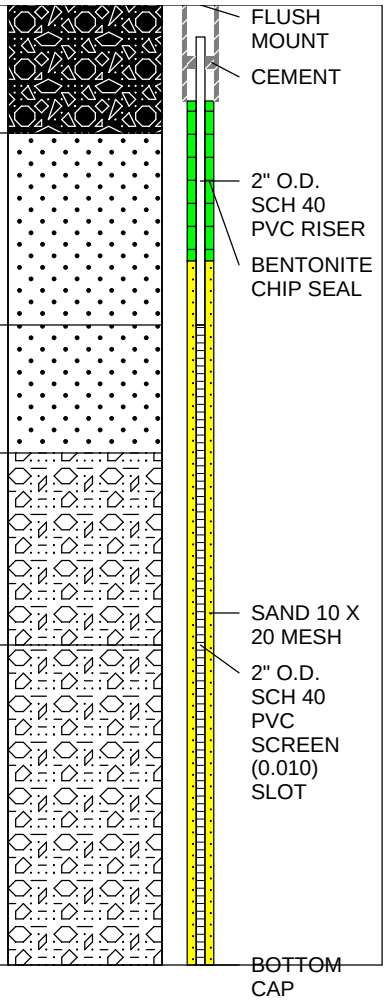
BOREHOLE NUMBER
WAMW-2

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **214 Ilex Street Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/14/13** DATE COMPLETED: **3/14/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	9 BGS	6.77 TOC
Time	10:20	11:00
Date	3/14/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION
0.0–1.0				WAMW2 0.5-10		Fill material: Compacted, light brown
1.0–5.0					SP	Sand: Fine to medium grained sand, light brown, moist, fine gravels interspersed.
5.0–7.0		0.0	1.5	WAMW2 5-7	SP	Sand: Fine to medium grained sand, light brown, moist, fine gravels interspersed.
7.0–10.0	▼				GP	Gravel and Sand: Medium sand with fine gravel
10.0–15.0					GP	Gravel and Sand: Medium sand with fine gravel



(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

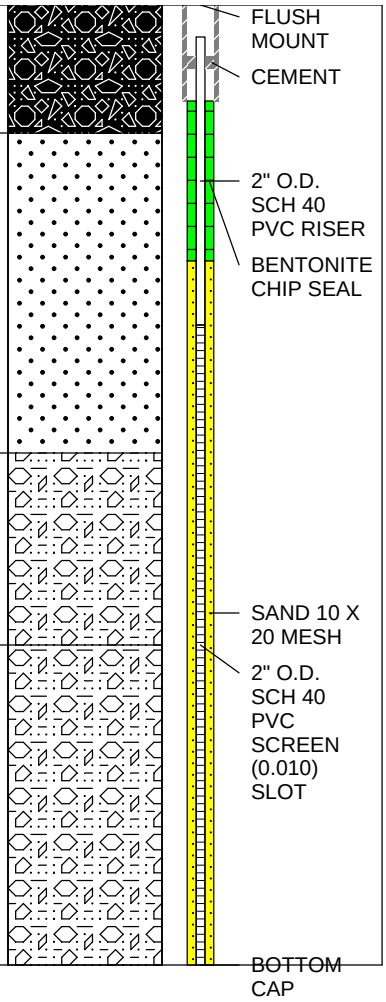
BOREHOLE NUMBER
WAMW-3

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **214 Ilex Street Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Geoprobe/Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/13/13** DATE COMPLETED: **3/14/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	8 BGS	7.42 TOC
Time	11:15	11:00
Date	3/13/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION
0.0–2.0		0.0	1.5			Fill material: Compacted, light brown
2.0–7.0		0.0	3	WAMW3 4-6	SM	Sand: Medium grain silty sand, light brown, moist, gravel interspersed
7.0–10.0	▼	0.0	3	WAMW3 7-8	GP	Gravel and Sand: Course gravel and sand, light brown, wet at 8' bgs, angular
10.0–15.0					GP	Gravel and Sand: Course gravel and sand, light brown, wet at 8' bgs, angular



(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

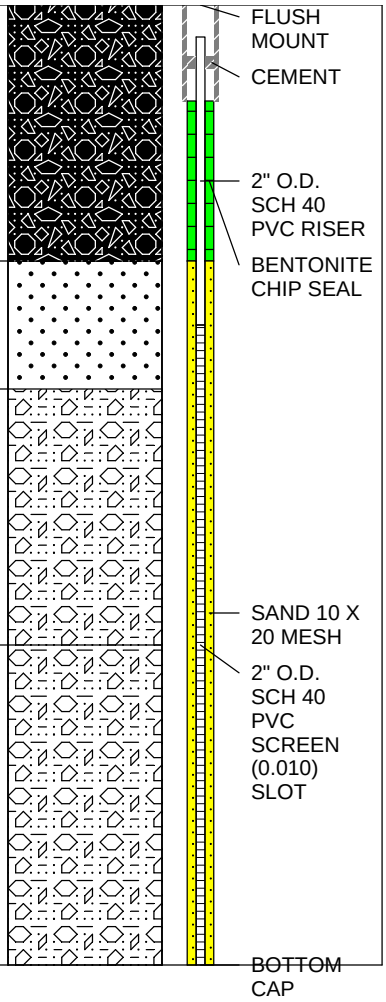
BOREHOLE NUMBER
WAMW-4

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **300 Moffat Street, Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Geoprobe/Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/13/13** DATE COMPLETED: **3/14/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	9.5 BGS	8.96 TOC
Time	10:30	12:45
Date	3/13/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION
0.0–1.0		0.0	1.5			Fill material: loose, gray, debris present including metal and glass, dry
1.0–4.0		0.0	3			
4.0–5.0				WAMW4 4-6	SM	Sand: sandy silt, light brown, fine grain, moist,
5.0–8.0		0.0	3		GP	Gravel and Sand: Course gravel and sand, pink and light brown, wet at 9.5' bgs, angular
8.0–9.0				WAMW4 8-1		
9.0–15.0	▼				GP	Gravel and Sand: Course gravel and sand, pink and light brown, wet, angular



(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
WAMW-5

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **214 Ilex Street Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Geoprobe/Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/13/13** DATE COMPLETED: **3/14/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	9.5 BGS	9.41 TOC
Time	10:30	12:45
Date	3/13/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION	LITHOLOGY	WELL CONSTRUCTION
0.0–1.0		0.0	1.5			Fill material: loose material, olive gray, debris present including metal and glass, dry, black coal fill present		FLUSH MOUNT; CEMENT
1.0–3.0		0.0	3	WAMW4 4-6	SM	Sand: sandy silt, light brown, fine grain, moist, well sorted		2" O.D. SCH 40 PVC RISER; BENTONITE CHIP SEAL
3.0–6.0								
6.0–10.0	▼ 9.0	0.0	3	WAMW4 8-1	GP	Gravel and Sand: Course gravel and sand, pink and light brown, wet at 9.5' bgs, angular		SAND 10 X 20 MESH; 2" O.D. SCH 40 PVC SCREEN (0.010) SLOT
10.0–15.0					GP	Gravel and Sand: Course gravel and sand, pink and light brown, wet, angular		BOTTOM CAP

(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
WAMW-6

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Geoprobe/Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/12/13** DATE COMPLETED: **3/12/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	9 BGS	8.42 TOC
Time	15:35	13:20
Date	3/12/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION	LITHOLOGY	WELL CONSTRUCTION
0.0								FLUSH MOUNT
1.0		0	1.5	SPKN23 1-2 (C)		Loose Fill Material with Debris: Fill: loose fill material with debris including glass, metal and other materials.		CEMENT
2.0								BENTONITE CHIP SEAL
3.0								2" O.D. SCH 40 PVC RISER
4.0			3					
5.0					SP	Silty Sand: Fine grain sands, light brown, moist, pyrite and mica minerals visible.		
6.0								
7.0						Gravel and Sand: Course gravels with course sands, pink and light brown, wet at 9' bgs.		
8.0	▼	0	3	SPKN23 8-9				
9.0								SAND 10 X 20 MESH
10.0					GM			2" O.D. SCH 40 PVC SCREEN (0.010) SLOT
11.0								
12.0			3					
13.0								
14.0								
15.0								BOTTOM CAP

(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

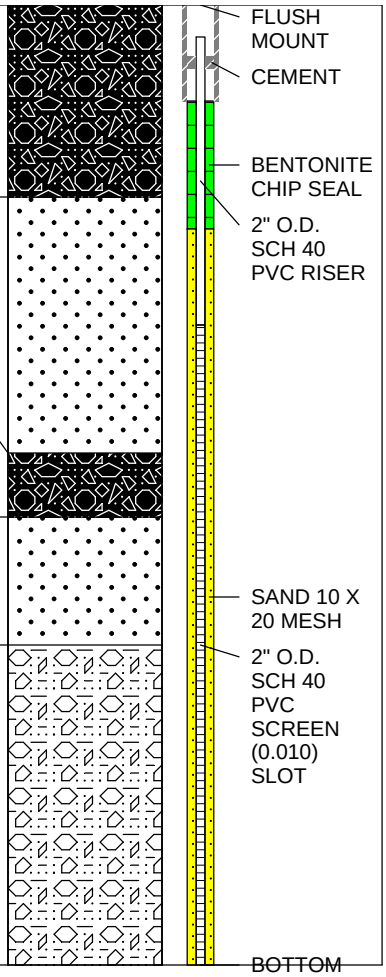
BOREHOLE NUMBER
WAMW-7

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avnenue, Pueblo, Colorado**
DRILLING COMPANY: **DrillPro Services, Inc.**
DRILLING METHOD: **Geoprobe/Diedrich D120 - 6" HSA**
DRILLER: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/11/13** DATE COMPLETED: **3/13/13**

TOTAL BORING DEPTH: **15 Feet**
TOTAL WELL DEPTH: **15 Feet**

INITIAL AND STATIC WATER LEVEL		
Depth (ft)	10 BGS	8.88 TOC
Time	15:35	13:20
Date	3/11/13	3/18/13

DEPTH	STATIC WATER	PID (VOCs in PPM)	RECOVERY (Ft.)	Soil Analysis	USCS	LITHOLOGY DESCRIPTION
0.0						
1.0		0	1.5	SPKN26 1-2 (C)		Fill material: Fill: loose fill material with debris including glass, metal and other materials.
2.0						
3.0					SW	Sand: Fine to medium grained sand, light brown, moist, fine gravels interspersed.
4.0			3			
5.0						
6.0						
7.0						Fill material: Fill: loose fill material with debris including glass, metal and other materials.
8.0		0	3	SPKN26 7-8	SW	Sand: Fine to medium grained sand, light brown, moist to wet at 10' bgs, fine gravels interspersed.
9.0						
10.0					GP	Gravel and Sand: Medium to large gravel with medium sand, light brown, wet, angular
11.0						
12.0			3			
13.0						
14.0						
15.0						



(C) = 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
SPKN4

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Hurricane Geoprobe/Truck Mount**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/11/13** DATE COMPLETED: **3/11/13**

TOTAL BORING DEPTH: **9.5 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	9.5	N/A
Time	08:20	N/A
Date	3/12/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0 – 2.0	1.5	0.0		SPKN4 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
2.0 – 6.0	3	0.0	ML	SPKN4 4-6	Silt: silt, brown, moist, cohesive, platy structure, white oxidation present	
6.0 – 8.0	3		SP		Sand: sand, light brown moist, fine grain, poorly sorted, fine grain gravel interspersed	
8.0 – 10.0		0.0	GP	SPKN4 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	

(C) - 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
SPKN5

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Hurricane Geoprobe/Truck Mount**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/11/13** DATE COMPLETED: **3/11/13**

TOTAL BORING DEPTH: **9.5 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	9.5	N/A
Time	15:15	N/A
Date	3/11/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0 – 1.0	1.5	0.0		SPKN16 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
1.0 – 5.0	3	0.0	ML	SPKN16 4-6	Silty Sand: silt, brown, moist, cohesive, fine grain sand lenses, soft	
5.0 – 6.0			SW		Sand: sand, light brown moist, fine grain, well sorted, no structure	
6.0 – 9.5	3	0.0	GP	SPKN16 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	

(C) - 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
SPKN15

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Hurricane Geoprobe/Truck Mount**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/12/13** DATE COMPLETED: **3/12/13**

TOTAL BORING DEPTH: **9.5 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	9.5	N/A
Time	8:45	N/A
Date	3/12/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0						
1.0	1.5	0.0		SPKN4 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
2.0						
3.0	1					
4.0		0.0		SPKN4 4-6		
5.0						
6.0	3					
7.0			SP		Sand: sand, light brown moist, fine grain, poorly sorted, fine grain gravel interspersed	
8.0		0.0	GP	SPKN4 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	
9.0						
10.0						

(C) - 1 aliquot of 5 point composite sample

Walsh
Environmental Scientists and Engineers, LLC
an ecology and environment company

SOIL BORING LOG

BOREHOLE NUMBER
SPKN16 1-2

PROJECT NUMBER: **WA-00125-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Geoprobe/Diedrich-120 6" HSA**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/11/13** DATE COMPLETED: **3/11/13**

TOTAL BORING DEPTH: **9.5 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	10	N/A
Time	15:45	N/A
Date	3/11/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0 – 1.0	1.5	0.0		SPKN16 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
1.0 – 2.0						
2.0 – 4.0	3		SW		Sand: sand, moist, fine grain, well sorted, no structure	
4.0 – 5.0		0.0		SPKN16 4-6		
5.0 – 6.0						
6.0 – 8.0	3					
8.0 – 9.0		0.0	GP	SPKN16 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	
9.0 – 10.0						

(C) - 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
SPKN24

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Hurricane Geoprobe/Truck Mount**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/12/13** DATE COMPLETED: **3/12/13**

TOTAL BORING DEPTH: **9 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	9.5	N/A
Time	9:40	N/A
Date	3/12/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0 – 1.0	1.5	0.0		SPKN24 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
1.0 – 3.0	3		ML		Silt: silt, brown, moist, cohesive, platy structure, rusty iron oxidation present	
3.0 – 6.0		0.0	SP	SPKN24 4-6	Sand: sand, light brown moist, fine grain, poorly sorted, fine grain gravel interspersed	
6.0 – 10.0	3	0.0	GP	SPKN24 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	

(C) - 1 aliquot of 5 point composite sample

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SOIL BORING LOG

BOREHOLE NUMBER
SPKN25

PROJECT NUMBER: **WA-001925-0001-10TTO**
PROJECT NAME: **CDOT Ilex Bridge Reconstruction**
LOCATION: **310 South Santa Fe Avenue, Pueblo, Colorado**
CONTRACTOR: **DrillPro Services, Inc.**
EQUIPMENT: **Hurricane Geoprobe/Truck Mount**
OPERATOR: **Blake Jones**
GEOLOGIST: **Patrick Engels**
DATE BEGUN: **3/12/13** DATE COMPLETED: **3/12/13**

TOTAL BORING DEPTH: **9.5 Feet**
TOTAL WELL DEPTH: **N/A**

INITIAL AND STATIC WATER LEVEL (TOC)		
Depth (ft)	9.5	N/A
Time	08:20	N/A
Date	3/12/13	N/A

DEPTH	RECOVERY (FT)	PID (VOCs in PPM)	USCS	Soil Analysis	LITHOLOGY DESCRIPTION	LITHOLOGY
0.0 – 1.0	1.5	0.0		SPKN4 1-2 (C)	Fill material: Gray, dry, loose fill material, debris present including glass and metal	
1.0 – 2.0						
2.0 – 4.0	3		SP		Sand: sand, light brown moist, fine grain, poorly sorted, fine grain gravel interspersed	
4.0 – 5.0		0.0		SPKN4 4-6		
5.0 – 6.0						
6.0 – 8.0	3					
8.0 – 9.0		0.0	GP	SPKN4 8-10	Gravel and Sand: Sandy gravel, pink-light brown, angular, poorly sorted, wet at 9.5 feet bgs	
9.0 – 10.0						

(C) - 1 aliquot of 5 point composite sample

APPENDIX 3

LABORATORY ANALYTICAL REPORTS

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: 280-39977-1
Client Project/Site: Cliff Brice

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/21/2013 1:48:51 PM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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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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.
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and 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.

GC 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
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

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.
F	MS or MSD exceeds the control limits

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-39977-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Cliff Brice

Report Number: 280-39977-1

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 on March 14, 2013. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.2C.

The sample ID for sample WAMW5(4-6) with no collection time on the chain of custody has been logged per the container label as a Field duplicate with a sample ID of WAMW5(4-6)D. The client notified of this discrepancy on March 15, 2013.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Several analytes were detected in method blank MB 280-165355/1-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.

The MS/MSD associated with batch 280-165330 exhibited spike recoveries and RPD data outside QC control limits for several analytes. 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 VOC analyses.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)
No difficulties were encountered during the SIM analyses.

GASOLINE RANGE ORGANICS (GRO)
No difficulties were encountered during the GRO analyses.

DIESEL RANGE ORGANICS
o-Terphenyl failed the surrogate recovery criteria high for WAMW5(4-6)D (280-39977-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis were not performed. The sample contained diesel range organics which may have co-eluted with the surrogate to caused high recoveries.

No other difficulties were encountered during the DRO analyses.

TOTAL METALS
The MS associated with batch 280-165909 exhibited spike recoveries below QC control limits for Lead. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required.

Job ID: 280-39977-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

The MSD associated with batch 280-165749 exhibited spike recoveries above QC control limits for Mercury. 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 mercury analyses.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Client Sample ID: WAMW4(4-6) — Lab Sample ID: 280-39977-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J B	20	5.4	ug/Kg	1		8260B	Total/NA
Bromoform	0.37	J B	5.0	0.23	ug/Kg	1		8260B	Total/NA
Methylene Chloride	2.5	J B	5.0	1.6	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	6.7		5.0	0.59	ug/Kg	1		8260B	Total/NA
Acenaphthene	2200	J	5000	160	ng/Kg	1		8270C SIM	Total/NA
Acenaphthylene	17000		5000	170	ng/Kg	1		8270C SIM	Total/NA
Anthracene	14000		5000	720	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	34000		5000	890	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	53000		5000	740	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	97000		5000	1200	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	41000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	32000		5000	990	ng/Kg	1		8270C SIM	Total/NA
Chrysene	56000		5000	990	ng/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	12000		5000	1300	ng/Kg	1		8270C SIM	Total/NA
Fluoranthene	42000		5000	990	ng/Kg	1		8270C SIM	Total/NA
Fluorene	2000	J	5000	470	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	43000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	12000		5000	260	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	13000		5000	310	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	12000		5000	320	ng/Kg	1		8270C SIM	Total/NA
Phenanthrene	32000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
Pyrene	45000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.50	J	1.2	0.32	mg/Kg	1		8015B	Total/NA
DRO [C10-C36]	21		4.0	0.99	mg/Kg	1		8015B	Total/NA
Arsenic	6.2		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	150		0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	0.92		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	7.4		1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	150		0.73	0.25	mg/Kg	1		6010B	Total/NA
Mercury	46		19	6.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: WAMW4(8-10) — Lab Sample ID: 280-39977-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.31	J B	4.6	0.21	ug/Kg	1		8260B	Total/NA
DRO [C10-C36]	3.6	J	3.9	0.98	mg/Kg	1		8015B	Total/NA
Arsenic	1.8		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	35		0.88	0.067	mg/Kg	1		6010B	Total/NA
Chromium	5.1		1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	7.8		0.70	0.24	mg/Kg	1		6010B	Total/NA

Client Sample ID: WAMW5(4-6) — Lab Sample ID: 280-39977-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.31	J B	4.9	0.23	ug/Kg	1		8260B	Total/NA
Methylene Chloride	2.0	J B	4.9	1.6	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	1.8	J	4.9	0.58	ug/Kg	1		8260B	Total/NA
1-Methylnaphthalene	420	J	4900	260	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	510	J	4900	300	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	420	J	4900	320	ng/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Client Sample ID: WAMW5(4-6) (Continued) — Lab Sample ID: 280-39977-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO [C10-C36]	7.4		3.9	0.97	mg/Kg	1		8015B	Total/NA
Arsenic	3.9		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	150		0.90	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	0.39	J	0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	15		1.4	0.052	mg/Kg	1		6010B	Total/NA
Lead	14		0.72	0.24	mg/Kg	1		6010B	Total/NA

Client Sample ID: WAMW5(8-10) — Lab Sample ID: 280-39977-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J B	18	4.9	ug/Kg	1		8260B	Total/NA
Bromoform	0.30	J B	4.5	0.21	ug/Kg	1		8260B	Total/NA
Methylene Chloride	2.7	J B	4.5	1.5	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	3.8	J	4.5	0.54	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	1100	J	4900	730	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	1600	J	4900	1200	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1300	J	4900	1100	ng/Kg	1		8270C SIM	Total/NA
Chrysene	1100	J	4900	980	ng/Kg	1		8270C SIM	Total/NA
Fluoranthene	1400	J	4900	980	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1300	J	4900	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	380	J	4900	250	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	470	J	4900	300	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	370	J	4900	320	ng/Kg	1		8270C SIM	Total/NA
Pyrene	1200	J	4900	1100	ng/Kg	1		8270C SIM	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.88	J	1.2	0.32	mg/Kg	1		8015B	Total/NA
DRO [C10-C36]	1.0	J	3.9	0.97	mg/Kg	1		8015B	Total/NA
Arsenic	2.4		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	65		0.91	0.069	mg/Kg	1		6010B	Total/NA
Chromium	8.1		1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	4.7		0.73	0.25	mg/Kg	1		6010B	Total/NA

Client Sample ID: WAMW5(4-6)D — Lab Sample ID: 280-39977-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	0.80	J	1.2	0.32	mg/Kg	1		8015B	Total/NA
DRO [C10-C36]	260		3.9	0.98	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL DEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7471A	Mercury (CVAA)	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: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-39977-1	WAMW4(4-6)	Solid	03/13/13 10:45	03/14/13 16:20
280-39977-2	WAMW4(8-10)	Solid	03/13/13 10:45	03/14/13 16:20
280-39977-3	WAMW5(4-6)	Solid	03/13/13 11:05	03/14/13 16:20
280-39977-4	WAMW5(8-10)	Solid	03/13/13 11:10	03/14/13 16:20
280-39977-5	WAMW5(4-6)D	Solid	03/13/13 00:00	03/14/13 16:20

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WAMW4(4-6)
Date Collected: 03/13/13 10:45
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39977-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.8**	**J B**	20	5.4	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Benzene	ND		5.0	0.47	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Bromoform	**0.37**	**J B**	5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Bromomethane	ND		10	0.50	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chloroethane	ND		10	0.90	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chloroform	ND		10	0.29	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Chloromethane	ND		10	0.77	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Cyclohexane	ND		5.0	0.40	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,4-Dioxane	ND		500	56	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
2-Hexanone	ND		20	4.9	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Methyl acetate	ND		10	2.8	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Methylene Chloride	**2.5**	**J B**	5.0	1.6	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
o-Xylene	ND		2.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Styrene	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Tetrachloroethene	**6.7**		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Toluene	ND		5.0	0.69	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1,2-Trichloroethane	ND		5.0	0.89	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Trichloroethene	ND		5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 15:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW4(4-6) — **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		10	1.0	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 15:00	1
Xylenes, Total	ND		2.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*76 - 127*	*03/18/13 06:00*	*03/18/13 15:00*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*03/18/13 06:00*	*03/18/13 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*03/18/13 06:00*	*03/18/13 15:00*	*1*
Toluene-d8 (Surr)	*116*		*80 - 126*	*03/18/13 06:00*	*03/18/13 15:00*	*1*

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		18	4.9	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Benzene	ND		4.6	0.43	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Bromoform	**0.31**	**J B**	4.6	0.21	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Bromomethane	ND		9.2	0.46	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
2-Butanone (MEK)	ND		18	1.7	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Carbon disulfide	ND		4.6	0.39	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Carbon tetrachloride	ND		4.6	0.58	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chlorobenzene	ND		4.6	0.50	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chlorobromomethane	ND		4.6	0.28	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chlorodibromomethane	ND		4.6	0.52	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chloroethane	ND		9.2	0.82	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chloroform	ND		9.2	0.27	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Chloromethane	ND		9.2	0.71	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
cis-1,2-Dichloroethene	ND		2.3	0.51	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
cis-1,3-Dichloropropene	ND		4.6	1.2	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Cyclohexane	ND		4.6	0.37	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2-Dibromo-3-Chloropropane	ND		9.2	0.55	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2-Dibromoethane	ND		4.6	0.48	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2-Dichlorobenzene	ND		4.6	0.41	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,3-Dichlorobenzene	ND		4.6	0.44	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,4-Dichlorobenzene	ND		4.6	0.72	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Dichlorobromomethane	ND		4.6	0.20	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Dichlorodifluoromethane	ND		9.2	0.48	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1-Dichloroethane	ND		4.6	0.19	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2-Dichloroethane	ND		4.6	0.64	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1-Dichloroethene	ND		4.6	0.54	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2-Dichloropropane	ND		4.6	0.50	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,4-Dioxane	ND		460	51	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Ethylbenzene	ND		4.6	0.62	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
2-Hexanone	ND		18	4.5	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Isopropylbenzene	ND		4.6	0.54	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Methyl acetate	ND		9.2	2.5	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Methylcyclohexane	ND		4.6	0.39	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Methylene Chloride	ND		4.6	1.5	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		18	4.0	ug/Kg		03/18/13 06:00	03/18/13 15:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		18	0.31	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
m-Xylene & p-Xylene	ND		2.3	0.95	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
o-Xylene	ND		2.3	0.56	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Styrene	ND		4.6	0.58	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.56	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Tetrachloroethene	ND		4.6	0.54	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Toluene	ND		4.6	0.63	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
trans-1,2-Dichloroethene	ND		2.3	0.36	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
trans-1,3-Dichloropropene	ND		4.6	0.62	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2,3-Trichlorobenzene	ND		4.6	0.69	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,2,4-Trichlorobenzene	ND		4.6	0.67	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1,1-Trichloroethane	ND		4.6	0.48	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1,2-Trichloroethane	ND		4.6	0.81	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Trichloroethene	ND		4.6	0.21	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Trichlorofluoromethane	ND		9.2	0.95	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.41	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Vinyl chloride	ND		4.6	1.2	ug/Kg		03/18/13 06:00	03/18/13 15:22	1
Xylenes, Total	ND		2.3	0.56	ug/Kg		03/18/13 06:00	03/18/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*03/18/13 06:00*	*03/18/13 15:22*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*03/18/13 06:00*	*03/18/13 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*03/18/13 06:00*	*03/18/13 15:22*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*03/18/13 06:00*	*03/18/13 15:22*	*1*

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.3	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Benzene	ND		4.9	0.46	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Bromoform	**0.31**	**J B**	4.9	0.23	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Bromomethane	ND		9.8	0.49	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Carbon disulfide	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Carbon tetrachloride	ND		4.9	0.62	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chlorobenzene	ND		4.9	0.53	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chlorobromomethane	ND		4.9	0.29	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chlorodibromomethane	ND		4.9	0.56	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chloroethane	ND		9.8	0.88	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chloroform	ND		9.8	0.29	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Chloromethane	ND		9.8	0.76	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
cis-1,2-Dichloroethene	ND		2.5	0.55	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
cis-1,3-Dichloropropene	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Cyclohexane	ND		4.9	0.39	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2-Dibromo-3-Chloropropane	ND		9.8	0.59	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2-Dibromoethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2-Dichlorobenzene	ND		4.9	0.44	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,3-Dichlorobenzene	ND		4.9	0.47	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,4-Dichlorobenzene	ND		4.9	0.77	ug/Kg		03/18/13 06:00	03/18/13 15:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Dichlorodifluoromethane	ND		9.8	0.51	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1-Dichloroethane	ND		4.9	0.21	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2-Dichloroethane	ND		4.9	0.69	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1-Dichloroethene	ND		4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2-Dichloropropane	ND		4.9	0.54	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,4-Dioxane	ND		490	55	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Ethylbenzene	ND		4.9	0.66	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
2-Hexanone	ND		20	4.8	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Isopropylbenzene	ND		4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Methyl acetate	ND		9.8	2.7	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Methylcyclohexane	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Methylene Chloride	**2.0**	**J B**	4.9	1.6	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.3	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Methyl tert-butyl ether	ND		20	0.33	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
o-Xylene	ND		2.5	0.60	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Styrene	ND		4.9	0.62	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.60	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Tetrachloroethene	**1.8**	**J**	4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Toluene	ND		4.9	0.68	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
trans-1,2-Dichloroethene	ND		2.5	0.38	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
trans-1,3-Dichloropropene	ND		4.9	0.66	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2,3-Trichlorobenzene	ND		4.9	0.74	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,2,4-Trichlorobenzene	ND		4.9	0.72	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1,1-Trichloroethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1,2-Trichloroethane	ND		4.9	0.87	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Trichloroethene	ND		4.9	0.23	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Trichlorofluoromethane	ND		9.8	1.0	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.44	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Vinyl chloride	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 15:43	1
Xylenes, Total	ND		2.5	0.60	ug/Kg		03/18/13 06:00	03/18/13 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*76 - 127*	*03/18/13 06:00*	*03/18/13 15:43*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*03/18/13 06:00*	*03/18/13 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*	*03/18/13 06:00*	*03/18/13 15:43*	*1*
Toluene-d8 (Surr)	*112*		*80 - 126*	*03/18/13 06:00*	*03/18/13 15:43*	*1*

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**10**	**J B**	18	4.9	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Benzene	ND		4.5	0.43	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Bromoform	**0.30**	**J B**	4.5	0.21	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Bromomethane	ND		9.1	0.45	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
2-Butanone (MEK)	ND		18	1.7	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Carbon disulfide	ND		4.5	0.38	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Carbon tetrachloride	ND		4.5	0.57	ug/Kg		03/18/13 06:00	03/18/13 16:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW5(8-10)
Date Collected: 03/13/13 11:10
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39977-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		4.5	0.49	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Chlorobromomethane	ND		4.5	0.27	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Chlorodibromomethane	ND		4.5	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Chloroethane	ND		9.1	0.81	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Chloroform	ND		9.1	0.26	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Chloromethane	ND		9.1	0.70	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
cis-1,2-Dichloroethene	ND		2.3	0.51	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
cis-1,3-Dichloropropene	ND		4.5	1.2	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Cyclohexane	ND		4.5	0.36	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2-Dibromo-3-Chloropropane	ND		9.1	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2-Dibromoethane	ND		4.5	0.47	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2-Dichlorobenzene	ND		4.5	0.41	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,3-Dichlorobenzene	ND		4.5	0.44	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,4-Dichlorobenzene	ND		4.5	0.71	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Dichlorobromomethane	ND		4.5	0.20	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Dichlorodifluoromethane	ND		9.1	0.47	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1-Dichloroethane	ND		4.5	0.19	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2-Dichloroethane	ND		4.5	0.64	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1-Dichloroethene	ND		4.5	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2-Dichloropropane	ND		4.5	0.50	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,4-Dioxane	ND		450	51	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Ethylbenzene	ND		4.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
2-Hexanone	ND		18	4.4	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Isopropylbenzene	ND		4.5	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Methyl acetate	ND		9.1	2.5	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Methylcyclohexane	ND		4.5	0.38	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Methylene Chloride	**2.7**	**J B**	4.5	1.5	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
4-Methyl-2-pentanone (MIBK)	ND		18	4.0	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Methyl tert-butyl ether	ND		18	0.31	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
m-Xylene & p-Xylene	ND		2.3	0.94	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
o-Xylene	ND		2.3	0.55	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Styrene	ND		4.5	0.57	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.55	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Tetrachloroethene	**3.8**	**J**	4.5	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Toluene	ND		4.5	0.63	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
trans-1,2-Dichloroethene	ND		2.3	0.35	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
trans-1,3-Dichloropropene	ND		4.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2,3-Trichlorobenzene	ND		4.5	0.68	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,2,4-Trichlorobenzene	ND		4.5	0.66	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1,1-Trichloroethane	ND		4.5	0.47	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1,2-Trichloroethane	ND		4.5	0.80	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Trichloroethene	ND		4.5	0.21	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Trichlorofluoromethane	ND		9.1	0.94	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.41	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Vinyl chloride	ND		4.5	1.2	ug/Kg		03/18/13 06:00	03/18/13 16:05	1
Xylenes, Total	ND		2.3	0.55	ug/Kg		03/18/13 06:00	03/18/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*76 - 127*	*03/18/13 06:00*	*03/18/13 16:05*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 121*	*03/18/13 06:00*	*03/18/13 16:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW5(8-10) **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 **Matrix: Solid**
Date Received: 03/14/13 16:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*58 - 140*	*03/18/13 06:00*	*03/18/13 16:05*	*1*
Toluene-d8 (Surr)	*117*		*80 - 126*	*03/18/13 06:00*	*03/18/13 16:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: WAMW4(4-6) **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2200**	**J**	5000	160	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Acenaphthylene	**17000**		5000	170	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Anthracene	**14000**		5000	720	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Benzo[a]anthracene	**34000**		5000	890	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Benzo[a]pyrene	**53000**		5000	740	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Benzo[b]fluoranthene	**97000**		5000	1200	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Benzo[g,h,i]perylene	**41000**		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Benzo[k]fluoranthene	**32000**		5000	990	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Chrysene	**56000**		5000	990	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Dibenz(a,h)anthracene	**12000**		5000	1300	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Fluoranthene	**42000**		5000	990	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Fluorene	**2000**	**J**	5000	470	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Indeno[1,2,3-cd]pyrene	**43000**		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
1-Methylnaphthalene	**12000**		5000	260	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
2-Methylnaphthalene	**13000**		5000	310	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Naphthalene	**12000**		5000	320	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Phenanthrene	**32000**		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 20:08	1
Pyrene	**45000**		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*39 - 120*	*03/16/13 08:50*	*03/18/13 20:08*	*1*
Nitrobenzene-d5	*80*		*42 - 120*	*03/16/13 08:50*	*03/18/13 20:08*	*1*
Terphenyl-d14	*93*		*35 - 124*	*03/16/13 08:50*	*03/18/13 20:08*	*1*

Client Sample ID: WAMW4(8-10) **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4900	160	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Acenaphthylene	ND		4900	170	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Anthracene	ND		4900	700	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Benzo[a]anthracene	ND		4900	870	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Benzo[a]pyrene	ND		4900	720	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Benzo[b]fluoranthene	ND		4900	1200	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Benzo[g,h,i]perylene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Benzo[k]fluoranthene	ND		4900	970	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Chrysene	ND		4900	970	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Dibenz(a,h)anthracene	ND		4900	1300	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Fluoranthene	ND		4900	970	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Fluorene	ND		4900	460	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Indeno[1,2,3-cd]pyrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 20:35	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		4900	250	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
2-Methylnaphthalene	ND		4900	300	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Naphthalene	ND		4900	320	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Phenanthrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 20:35	1
Pyrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*39 - 120*	*03/16/13 08:50*	*03/18/13 20:35*	*1*
Nitrobenzene-d5	*81*		*42 - 120*	*03/16/13 08:50*	*03/18/13 20:35*	*1*
Terphenyl-d14	*88*		*35 - 124*	*03/16/13 08:50*	*03/18/13 20:35*	*1*

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4900	160	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Acenaphthylene	ND		4900	170	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Anthracene	ND		4900	710	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Benzo[a]anthracene	ND		4900	890	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Benzo[a]pyrene	ND		4900	730	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Benzo[b]fluoranthene	ND		4900	1200	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Benzo[g,h,i]perylene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Benzo[k]fluoranthene	ND		4900	980	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Chrysene	ND		4900	980	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Dibenz(a,h)anthracene	ND		4900	1300	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Fluoranthene	ND		4900	980	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Fluorene	ND		4900	460	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Indeno[1,2,3-cd]pyrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
1-Methylnaphthalene	**420**	**J**	4900	260	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
2-Methylnaphthalene	**510**	**J**	4900	300	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Naphthalene	**420**	**J**	4900	320	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Phenanthrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 21:53	1
Pyrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*39 - 120*	*03/16/13 08:50*	*03/18/13 21:53*	*1*
Nitrobenzene-d5	*46*		*42 - 120*	*03/16/13 08:50*	*03/18/13 21:53*	*1*
Terphenyl-d14	*46*		*35 - 124*	*03/16/13 08:50*	*03/18/13 21:53*	*1*

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4900	160	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Acenaphthylene	ND		4900	170	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Anthracene	ND		4900	710	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Benzo[a]anthracene	ND		4900	880	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Benzo[a]pyrene	**1100**	**J**	4900	730	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Benzo[b]fluoranthene	**1600**	**J**	4900	1200	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Benzo[g,h,i]perylene	**1300**	**J**	4900	1100	ng/Kg		03/16/13 08:50	03/18/13 22:20	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		4900	980	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Chrysene	**1100**	**J**	4900	980	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Dibenz(a,h)anthracene	ND		4900	1300	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Fluoranthene	**1400**	**J**	4900	980	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Fluorene	ND		4900	460	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Indeno[1,2,3-cd]pyrene	**1300**	**J**	4900	1100	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
1-Methylnaphthalene	**380**	**J**	4900	250	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
2-Methylnaphthalene	**470**	**J**	4900	300	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Naphthalene	**370**	**J**	4900	320	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Phenanthrene	ND		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 22:20	1
Pyrene	**1200**	**J**	4900	1100	ng/Kg		03/16/13 08:50	03/18/13 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*39 - 120*	*03/16/13 08:50*	*03/18/13 22:20*	*1*
Nitrobenzene-d5	*78*		*42 - 120*	*03/16/13 08:50*	*03/18/13 22:20*	*1*
Terphenyl-d14	*87*		*35 - 124*	*03/16/13 08:50*	*03/18/13 22:20*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Client Sample ID: WAMW4(4-6) — **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**0.50**	**J**	1.2	0.32	mg/Kg		03/18/13 12:16	03/18/13 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*77 - 123*	*03/18/13 12:16*	*03/18/13 20:36*	*1*

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		1.2	0.32	mg/Kg		03/18/13 12:16	03/18/13 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*77 - 123*	*03/18/13 12:16*	*03/18/13 22:05*	*1*

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		1.2	0.32	mg/Kg		03/18/13 12:16	03/18/13 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*77 - 123*	*03/18/13 12:16*	*03/18/13 22:35*	*1*

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Method: 8015B - Gasoline Range Organics - (GC)

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.88	J	1.2	0.32	mg/Kg		03/18/13 12:16	03/18/13 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		77 - 123	03/18/13 12:16	03/18/13 23:04	1

Client Sample ID: WAMW5(4-6)D — **Lab Sample ID: 280-39977-5**
Date Collected: 03/13/13 00:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.80	J	1.2	0.32	mg/Kg		03/18/13 12:16	03/18/13 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		77 - 123	03/18/13 12:16	03/18/13 23:33	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: WAMW4(4-6) — **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	21		4.0	0.99	mg/Kg		03/16/13 13:15	03/18/13 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		49 - 115	03/16/13 13:15	03/18/13 13:48	1

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	3.6	J	3.9	0.98	mg/Kg		03/16/13 13:15	03/18/13 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		49 - 115	03/16/13 13:15	03/18/13 14:18	1

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	7.4		3.9	0.97	mg/Kg		03/16/13 13:15	03/18/13 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		49 - 115	03/16/13 13:15	03/18/13 14:48	1

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	1.0	J	3.9	0.97	mg/Kg		03/16/13 13:15	03/18/13 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		49 - 115	03/16/13 13:15	03/18/13 15:18	1

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: WAMW5(4-6)D — **Lab Sample ID: 280-39977-5**
Date Collected: 03/13/13 00:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	260		3.9	0.98	mg/Kg		03/16/13 13:15	03/18/13 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*	*X*	*49 - 115*	*03/16/13 13:15*	*03/18/13 16:49*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: WAMW4(4-6) — **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		1.8	0.60	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Barium	150		0.91	0.069	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Cadmium	0.92		0.45	0.037	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Chromium	7.4		1.4	0.053	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Lead	150		0.73	0.25	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Selenium	ND		1.2	0.78	mg/Kg		03/19/13 06:30	03/20/13 18:00	1
Silver	ND		0.91	0.15	mg/Kg		03/19/13 06:30	03/20/13 18:00	1

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		1.8	0.58	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Barium	35		0.88	0.067	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Cadmium	ND		0.44	0.036	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Chromium	5.1		1.3	0.051	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Lead	7.8		0.70	0.24	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Selenium	ND		1.1	0.75	mg/Kg		03/19/13 06:30	03/20/13 18:02	1
Silver	ND		0.88	0.14	mg/Kg		03/19/13 06:30	03/20/13 18:02	1

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		1.8	0.59	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Barium	150		0.90	0.068	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Cadmium	0.39	J	0.45	0.037	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Chromium	15		1.4	0.052	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Lead	14		0.72	0.24	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Selenium	ND		1.2	0.77	mg/Kg		03/19/13 06:30	03/20/13 18:05	1
Silver	ND		0.90	0.14	mg/Kg		03/19/13 06:30	03/20/13 18:05	1

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		1.8	0.60	mg/Kg		03/19/13 06:30	03/20/13 18:07	1
Barium	65		0.91	0.069	mg/Kg		03/19/13 06:30	03/20/13 18:07	1
Cadmium	ND		0.45	0.037	mg/Kg		03/19/13 06:30	03/20/13 18:07	1
Chromium	8.1		1.4	0.053	mg/Kg		03/19/13 06:30	03/20/13 18:07	1

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.7**		0.73	0.25	mg/Kg		03/19/13 06:30	03/20/13 18:07	1
Selenium	ND		1.2	0.78	mg/Kg		03/19/13 06:30	03/20/13 18:07	1
Silver	ND		0.91	0.15	mg/Kg		03/19/13 06:30	03/20/13 18:07	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: WAMW4(4-6) — **Lab Sample ID: 280-39977-1**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**46**		19	6.1	ug/Kg		03/19/13 13:15	03/19/13 19:09	1

Client Sample ID: WAMW4(8-10) — **Lab Sample ID: 280-39977-2**
Date Collected: 03/13/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.4	ug/Kg		03/19/13 13:15	03/19/13 19:11	1

Client Sample ID: WAMW5(4-6) — **Lab Sample ID: 280-39977-3**
Date Collected: 03/13/13 11:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		19	6.0	ug/Kg		03/19/13 13:15	03/19/13 19:13	1

Client Sample ID: WAMW5(8-10) — **Lab Sample ID: 280-39977-4**
Date Collected: 03/13/13 11:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 19:20	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

GC/MS VOA

Analysis Batch: 165330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39950-D-1-B MS	Matrix Spike	Total/NA	Solid	8260B	165355
280-39950-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	165355
280-39977-1	WAMW4(4-6)	Total/NA	Solid	8260B	165355
280-39977-2	WAMW4(8-10)	Total/NA	Solid	8260B	165355
280-39977-3	WAMW5(4-6)	Total/NA	Solid	8260B	165355
280-39977-4	WAMW5(8-10)	Total/NA	Solid	8260B	165355
LCS 280-165355/2-A	Lab Control Sample	Total/NA	Solid	8260B	165355
MB 280-165355/1-A	Method Blank	Total/NA	Solid	8260B	165355

Prep Batch: 165355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39950-D-1-B MS	Matrix Spike	Total/NA	Solid	5030B	
280-39950-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
280-39977-1	WAMW4(4-6)	Total/NA	Solid	5030B	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	5030B	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	5030B	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	5030B	
LCS 280-165355/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-165355/1-A	Method Blank	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 165131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	3546	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	3546	
280-39977-2 MS	WAMW4(8-10)	Total/NA	Solid	3546	
280-39977-2 MSD	WAMW4(8-10)	Total/NA	Solid	3546	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	3546	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	3546	
LCS 280-165131/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-165131/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 165375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	8270C SIM	165131
280-39977-2	WAMW4(8-10)	Total/NA	Solid	8270C SIM	165131
280-39977-2 MS	WAMW4(8-10)	Total/NA	Solid	8270C SIM	165131
280-39977-2 MSD	WAMW4(8-10)	Total/NA	Solid	8270C SIM	165131
280-39977-3	WAMW5(4-6)	Total/NA	Solid	8270C SIM	165131
280-39977-4	WAMW5(8-10)	Total/NA	Solid	8270C SIM	165131
LCS 280-165131/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	165131
MB 280-165131/1-A	Method Blank	Total/NA	Solid	8270C SIM	165131

GC VOA

Prep Batch: 165342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	5030B	
280-39977-1 MS	WAMW4(4-6)	Total/NA	Solid	5030B	

GC VOA (Continued)

Prep Batch: 165342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1 MSD	WAMW4(4-6)	Total/NA	Solid	5030B	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	5030B	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	5030B	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	5030B	
280-39977-5	WAMW5(4-6)D	Total/NA	Solid	5030B	
LCS 280-165342/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-165342/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 280-165342/3-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 165370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	8015B	165342
280-39977-1 MS	WAMW4(4-6)	Total/NA	Solid	8015B	165342
280-39977-1 MSD	WAMW4(4-6)	Total/NA	Solid	8015B	165342
280-39977-2	WAMW4(8-10)	Total/NA	Solid	8015B	165342
280-39977-3	WAMW5(4-6)	Total/NA	Solid	8015B	165342
280-39977-4	WAMW5(8-10)	Total/NA	Solid	8015B	165342
280-39977-5	WAMW5(4-6)D	Total/NA	Solid	8015B	165342
LCS 280-165342/1-A	Lab Control Sample	Total/NA	Solid	8015B	165342
LCSD 280-165342/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	165342
MB 280-165342/3-A	Method Blank	Total/NA	Solid	8015B	165342

GC Semi VOA

Prep Batch: 165194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	3546	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	3546	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	3546	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	3546	
280-39977-4 MS	WAMW5(8-10)	Total/NA	Solid	3546	
280-39977-4 MSD	WAMW5(8-10)	Total/NA	Solid	3546	
280-39977-5	WAMW5(4-6)D	Total/NA	Solid	3546	
LCS 280-165194/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-165194/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 165303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-1	WAMW4(4-6)	Total/NA	Solid	8015B	165194
280-39977-2	WAMW4(8-10)	Total/NA	Solid	8015B	165194
280-39977-3	WAMW5(4-6)	Total/NA	Solid	8015B	165194
280-39977-4	WAMW5(8-10)	Total/NA	Solid	8015B	165194
280-39977-4 MS	WAMW5(8-10)	Total/NA	Solid	8015B	165194
280-39977-4 MSD	WAMW5(8-10)	Total/NA	Solid	8015B	165194
280-39977-5	WAMW5(4-6)D	Total/NA	Solid	8015B	165194
LCS 280-165194/2-A	Lab Control Sample	Total/NA	Solid	8015B	165194
MB 280-165194/1-A	Method Blank	Total/NA	Solid	8015B	165194

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Metals

Prep Batch: 165153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-B MS	Matrix Spike	Total/NA	Solid	3050B	
280-39971-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
280-39977-1	WAMW4(4-6)	Total/NA	Solid	3050B	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	3050B	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	3050B	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	3050B	
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165153/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 165400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-E MS ^5	Matrix Spike	Total/NA	Solid	7471A	
280-39971-A-1-F MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	7471A	
280-39977-1	WAMW4(4-6)	Total/NA	Solid	7471A	
280-39977-2	WAMW4(8-10)	Total/NA	Solid	7471A	
280-39977-3	WAMW5(4-6)	Total/NA	Solid	7471A	
280-39977-4	WAMW5(8-10)	Total/NA	Solid	7471A	
LCS 280-165400/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-165400/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 165749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-E MS ^5	Matrix Spike	Total/NA	Solid	7471A	165400
280-39971-A-1-F MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	7471A	165400
280-39977-1	WAMW4(4-6)	Total/NA	Solid	7471A	165400
280-39977-2	WAMW4(8-10)	Total/NA	Solid	7471A	165400
280-39977-3	WAMW5(4-6)	Total/NA	Solid	7471A	165400
280-39977-4	WAMW5(8-10)	Total/NA	Solid	7471A	165400
LCS 280-165400/2-A	Lab Control Sample	Total/NA	Solid	7471A	165400
MB 280-165400/1-A	Method Blank	Total/NA	Solid	7471A	165400

Analysis Batch: 165909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-B MS	Matrix Spike	Total/NA	Solid	6010B	165153
280-39971-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	165153
280-39977-1	WAMW4(4-6)	Total/NA	Solid	6010B	165153
280-39977-2	WAMW4(8-10)	Total/NA	Solid	6010B	165153
280-39977-3	WAMW5(4-6)	Total/NA	Solid	6010B	165153
280-39977-4	WAMW5(8-10)	Total/NA	Solid	6010B	165153
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	6010B	165153
MB 280-165153/1-A	Method Blank	Total/NA	Solid	6010B	165153

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-165355/1-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.42	J	20	5.4	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Benzene	ND		5.0	0.47	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Bromoform	0.338	J	5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Bromomethane	ND		10	0.50	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
2-Butanone (MEK)	2.15	J	20	1.8	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Carbon disulfide	0.649	J	5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloroethane	ND		10	0.89	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloroform	ND		10	0.29	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloromethane	ND		10	0.77	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Cyclohexane	ND		5.0	0.40	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Dichlorobromomethane	0.254	J	5.0	0.22	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,4-Dioxane	ND		500	56	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
2-Hexanone	8.76	J	20	4.9	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methyl acetate	ND		10	2.8	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methylene Chloride	1.74	J	5.0	1.6	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
o-Xylene	ND		2.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Styrene	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Toluene	ND		5.0	0.69	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		03/18/13 06:00	03/18/13 13:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-165355/1-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Xylenes, Total	ND		5.0	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
Toluene-d8 (Surr)	*108*		*80 - 126*	*03/18/13 06:00*	*03/18/13 13:33*	*1*

Lab Sample ID: LCS 280-165355/2-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/Kg		109	65 - 150
Benzene	50.0	55.0		ug/Kg		110	75 - 135
Bromoform	50.0	48.5		ug/Kg		97	77 - 135
Bromomethane	50.0	33.8		ug/Kg		68	52 - 135
2-Butanone (MEK)	200	255		ug/Kg		128	45 - 177
Carbon disulfide	50.0	35.1		ug/Kg		70	45 - 150
Carbon tetrachloride	50.0	54.5		ug/Kg		109	69 - 138
Chlorobenzene	50.0	53.3		ug/Kg		107	78 - 135
Chlorobromomethane	50.0	49.3		ug/Kg		99	74 - 135
Chlorodibromomethane	50.0	53.3		ug/Kg		107	77 - 135
Chloroethane	50.0	41.2		ug/Kg		82	51 - 145
Chloroform	50.0	54.5		ug/Kg		109	73 - 123
Chloromethane	50.0	29.7		ug/Kg		59	41 - 138
cis-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	76 - 135
cis-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	71 - 135
1,2-Dibromo-3-Chloropropane	50.0	50.7		ug/Kg		101	66 - 150
1,2-Dibromoethane	50.0	52.5		ug/Kg		105	76 - 135
1,2-Dichlorobenzene	50.0	53.9		ug/Kg		108	73 - 135
1,3-Dichlorobenzene	50.0	55.2		ug/Kg		110	69 - 135
1,4-Dichlorobenzene	50.0	55.4		ug/Kg		111	73 - 135
Dichlorobromomethane	50.0	54.0		ug/Kg		108	73 - 135
Dichlorodifluoromethane	50.0	23.9		ug/Kg		48	32 - 152
1,1-Dichloroethane	50.0	55.4		ug/Kg		111	70 - 135
1,2-Dichloroethane	50.0	52.4		ug/Kg		105	69 - 135
1,1-Dichloroethene	50.0	61.2		ug/Kg		122	79 - 135
1,2-Dichloropropane	50.0	53.7		ug/Kg		107	72 - 121
Ethylbenzene	50.0	55.6		ug/Kg		111	73 - 125
2-Hexanone	200	238		ug/Kg		119	67 - 150
Isopropylbenzene	50.0	55.5		ug/Kg		111	74 - 137
Methylene Chloride	50.0	51.8		ug/Kg		104	76 - 136
4-Methyl-2-pentanone (MIBK)	200	235		ug/Kg		118	69 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-165355/2-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.7		ug/Kg		107	71 - 141
m-Xylene & p-Xylene	100	118		ug/Kg		118	77 - 135
o-Xylene	50.0	54.2		ug/Kg		108	75 - 135
Styrene	50.0	59.3		ug/Kg		119	76 - 135
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	65 - 135
Tetrachloroethene	50.0	55.7		ug/Kg		111	76 - 135
Toluene	50.0	55.0		ug/Kg		110	77 - 122
trans-1,2-Dichloroethene	50.0	54.0		ug/Kg		108	77 - 135
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	71 - 135
1,2,3-Trichlorobenzene	50.0	51.1		ug/Kg		102	62 - 135
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	65 - 135
1,1,1-Trichloroethane	50.0	56.8		ug/Kg		114	70 - 135
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	78 - 135
Trichloroethene	50.0	50.4		ug/Kg		101	77 - 135
Trichlorofluoromethane	50.0	32.7		ug/Kg		65	48 - 150
Vinyl chloride	50.0	31.5		ug/Kg		63	43 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*76 - 127*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*58 - 140*
Toluene-d8 (Surr)	*106*		*80 - 126*

Lab Sample ID: 280-39950-D-1-B MS
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	47	B	199	308		ug/Kg		131	65 - 150
Benzene	0.49	J	49.7	36.9	F	ug/Kg		73	75 - 135
Bromoform	0.59	J B	49.7	34.1	F	ug/Kg		67	77 - 135
Bromomethane	ND		49.7	48.0		ug/Kg		97	52 - 135
2-Butanone (MEK)	8.9	J B	199	487	F	ug/Kg		240	45 - 177
Carbon disulfide	ND		49.7	29.3		ug/Kg		59	45 - 150
Carbon tetrachloride	ND		49.7	64.2		ug/Kg		129	69 - 138
Chlorobenzene	ND		49.7	21.9	F	ug/Kg		44	78 - 135
Chlorobromomethane	ND		49.7	43.8		ug/Kg		88	74 - 135
Chlorodibromomethane	ND		49.7	59.7		ug/Kg		120	77 - 135
Chloroethane	ND		49.7	54.7		ug/Kg		110	51 - 145
Chloroform	ND		49.7	59.3		ug/Kg		119	73 - 123
Chloromethane	ND		49.7	43.1		ug/Kg		87	41 - 138
cis-1,2-Dichloroethene	ND		49.7	40.8		ug/Kg		82	76 - 135
cis-1,3-Dichloropropene	ND		49.7	54.3		ug/Kg		109	71 - 135
1,2-Dibromo-3-Chloropropane	ND		49.7	48.3		ug/Kg		97	66 - 150
1,2-Dibromoethane	ND		49.7	41.2		ug/Kg		83	76 - 135
1,2-Dichlorobenzene	ND		49.7	20.7	F	ug/Kg		42	73 - 135
1,3-Dichlorobenzene	ND		49.7	23.2	F	ug/Kg		47	69 - 135
1,4-Dichlorobenzene	ND		49.7	18.0	F	ug/Kg		36	73 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-39950-D-1-B MS
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	ND		49.7	45.8		ug/Kg		92	73 - 135
Dichlorodifluoromethane	ND		49.7	32.9		ug/Kg		66	32 - 152
1,1-Dichloroethane	ND		49.7	68.7	F	ug/Kg		138	70 - 135
1,2-Dichloroethane	ND		49.7	45.7		ug/Kg		92	69 - 135
1,1-Dichloroethene	ND		49.7	66.5		ug/Kg		134	79 - 135
1,2-Dichloropropane	ND		49.7	54.7		ug/Kg		110	72 - 121
Ethylbenzene	ND		49.7	51.3		ug/Kg		103	73 - 125
2-Hexanone	ND		199	223		ug/Kg		112	67 - 150
Isopropylbenzene	ND		49.7	169	F	ug/Kg		341	74 - 137
Methylene Chloride	4.7	J B	49.7	61.6		ug/Kg		114	76 - 136
4-Methyl-2-pentanone (MIBK)	ND		199	221		ug/Kg		111	69 - 150
Methyl tert-butyl ether	ND		49.7	79.3	F	ug/Kg		159	71 - 141
m-Xylene & p-Xylene	ND		99.4	85.9		ug/Kg		86	77 - 135
o-Xylene	ND		49.7	37.1		ug/Kg		75	75 - 135
Styrene	ND		49.7	12.3	F	ug/Kg		25	76 - 135
1,1,2,2-Tetrachloroethane	ND		49.7	134	F	ug/Kg		270	65 - 135
Tetrachloroethene	10		49.7	83.9	F	ug/Kg		148	76 - 135
Toluene	ND		49.7	26.2	F	ug/Kg		53	77 - 122
trans-1,2-Dichloroethene	ND		49.7	41.3		ug/Kg		83	77 - 135
trans-1,3-Dichloropropene	ND		49.7	19.9	F	ug/Kg		40	71 - 135
1,2,3-Trichlorobenzene	ND		49.7	7.30	F	ug/Kg		15	62 - 135
1,2,4-Trichlorobenzene	ND		49.7	7.85	F	ug/Kg		16	65 - 135
1,1,1-Trichloroethane	ND		49.7	72.6	F	ug/Kg		146	70 - 135
1,1,2-Trichloroethane	ND		49.7	35.8	F	ug/Kg		72	78 - 135
Trichloroethene	ND		49.7	34.6	F	ug/Kg		70	77 - 135
Trichlorofluoromethane	ND		49.7	42.5		ug/Kg		85	48 - 150
Vinyl chloride	ND		49.7	39.4		ug/Kg		79	43 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*	*X*	*76 - 127*
Dibromofluoromethane (Surr)	*138*	*X*	*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*128*		*58 - 140*
Toluene-d8 (Surr)	*178*	*X*	*80 - 126*

Lab Sample ID: 280-39950-D-1-C MSD
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	47	B	205	282		ug/Kg		115	65 - 150	9	28
Benzene	0.49	J	51.2	30.4	F	ug/Kg		58	75 - 135	19	20
Bromoform	0.59	J B	51.2	34.6	F	ug/Kg		66	77 - 135	2	20
Bromomethane	ND		51.2	42.2		ug/Kg		82	52 - 135	13	22
2-Butanone (MEK)	8.9	J B	205	475	F	ug/Kg		228	45 - 177	3	32
Carbon disulfide	ND		51.2	23.5		ug/Kg		46	45 - 150	22	24
Carbon tetrachloride	ND		51.2	69.3		ug/Kg		135	69 - 138	8	20
Chlorobenzene	ND		51.2	19.6	F	ug/Kg		38	78 - 135	11	20
Chlorobromomethane	ND		51.2	44.9		ug/Kg		88	74 - 135	2	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-39950-D-1-C MSD
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	ND		51.2	60.0		ug/Kg		117	77 - 135	1	20
Chloroethane	ND		51.2	48.6		ug/Kg		95	51 - 145	12	22
Chloroform	ND		51.2	56.2		ug/Kg		110	73 - 123	5	20
Chloromethane	ND		51.2	41.2		ug/Kg		80	41 - 138	5	25
cis-1,2-Dichloroethene	ND		51.2	38.6	F	ug/Kg		75	76 - 135	6	20
cis-1,3-Dichloropropene	ND		51.2	56.2		ug/Kg		110	71 - 135	3	20
1,2-Dibromo-3-Chloropropane	ND		51.2	55.3		ug/Kg		108	66 - 150	14	28
1,2-Dibromoethane	ND		51.2	41.8		ug/Kg		82	76 - 135	1	20
1,2-Dichlorobenzene	ND		51.2	20.5	F	ug/Kg		40	73 - 135	1	20
1,3-Dichlorobenzene	ND		51.2	22.6	F	ug/Kg		44	69 - 135	3	20
1,4-Dichlorobenzene	ND		51.2	17.7	F	ug/Kg		35	73 - 135	2	22
Dichlorobromomethane	ND		51.2	42.2		ug/Kg		82	73 - 135	8	20
Dichlorodifluoromethane	ND		51.2	31.4		ug/Kg		61	32 - 152	5	28
1,1-Dichloroethane	ND		51.2	64.9		ug/Kg		127	70 - 135	6	20
1,2-Dichloroethane	ND		51.2	39.3		ug/Kg		77	69 - 135	15	20
1,1-Dichloroethene	ND		51.2	63.2		ug/Kg		123	79 - 135	5	20
1,2-Dichloropropane	ND		51.2	48.6		ug/Kg		95	72 - 121	12	20
Ethylbenzene	ND		51.2	44.9		ug/Kg		88	73 - 125	13	20
2-Hexanone	ND		205	223		ug/Kg		109	67 - 150	0	29
Isopropylbenzene	ND		51.2	174	F	ug/Kg		339	74 - 137	2	20
Methylene Chloride	4.7	J B	51.2	59.2		ug/Kg		107	76 - 136	4	21
4-Methyl-2-pentanone (MIBK)	ND		205	196		ug/Kg		96	69 - 150	12	25
Methyl tert-butyl ether	ND		51.2	77.7	F	ug/Kg		152	71 - 141	2	20
m-Xylene & p-Xylene	ND		102	74.2	F	ug/Kg		72	77 - 135	15	20
o-Xylene	ND		51.2	32.6	F	ug/Kg		64	75 - 135	13	20
Styrene	ND		51.2	10.7	F	ug/Kg		21	76 - 135	14	20
1,1,2,2-Tetrachloroethane	ND		51.2	153	F	ug/Kg		299	65 - 135	13	21
Tetrachloroethene	10		51.2	80.4	F	ug/Kg		137	76 - 135	4	20
Toluene	ND		51.2	20.7	F	ug/Kg		40	77 - 122	24	20
trans-1,2-Dichloroethene	ND		51.2	37.2	F	ug/Kg		73	77 - 135	10	20
trans-1,3-Dichloropropene	ND		51.2	16.2	F	ug/Kg		32	71 - 135	20	20
1,2,3-Trichlorobenzene	ND		51.2	7.01	F	ug/Kg		14	62 - 135	4	31
1,2,4-Trichlorobenzene	ND		51.2	6.98	F	ug/Kg		14	65 - 135	12	26
1,1,1-Trichloroethane	ND		51.2	72.7	F	ug/Kg		142	70 - 135	0	20
1,1,2-Trichloroethane	ND		51.2	31.5	F	ug/Kg		62	78 - 135	13	20
Trichloroethene	ND		51.2	30.1	F	ug/Kg		59	77 - 135	14	20
Trichlorofluoromethane	ND		51.2	44.2		ug/Kg		86	48 - 150	4	33
Vinyl chloride	ND		51.2	35.9		ug/Kg		70	43 - 145	9	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*156*	*X*	*76 - 127*
Dibromofluoromethane (Surr)	*149*	*X*	*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*122*		*58 - 140*
Toluene-d8 (Surr)	*210*	*X*	*80 - 126*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 280-165131/1-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5000	160	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Acenaphthylene	ND		5000	170	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Anthracene	ND		5000	720	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[a]anthracene	ND		5000	890	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[a]pyrene	ND		5000	740	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[b]fluoranthene	ND		5000	1200	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[g,h,i]perylene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[k]fluoranthene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Chrysene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Dibenz(a,h)anthracene	ND		5000	1300	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Fluoranthene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Fluorene	ND		5000	470	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Indeno[1,2,3-cd]pyrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
1-Methylnaphthalene	ND		5000	260	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
2-Methylnaphthalene	ND		5000	310	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Naphthalene	ND		5000	320	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Phenanthrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Pyrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*39 - 120*	*03/16/13 08:50*	*03/18/13 17:31*	*1*
Nitrobenzene-d5	*81*		*42 - 120*	*03/16/13 08:50*	*03/18/13 17:31*	*1*
Terphenyl-d14	*91*		*35 - 120*	*03/16/13 08:50*	*03/18/13 17:31*	*1*

Lab Sample ID: LCS 280-165131/2-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	28700	25400		ng/Kg		89	35 - 120
Acenaphthylene	28700	23400		ng/Kg		82	41 - 120
Anthracene	28700	23000		ng/Kg		80	43 - 120
Benzo[a]anthracene	28700	23000		ng/Kg		80	36 - 120
Benzo[a]pyrene	28700	21100		ng/Kg		74	20 - 120
Benzo[b]fluoranthene	28700	23900		ng/Kg		83	37 - 120
Benzo[g,h,i]perylene	28700	23500		ng/Kg		82	20 - 123
Benzo[k]fluoranthene	28700	24600		ng/Kg		86	46 - 120
Chrysene	28700	26800		ng/Kg		94	34 - 120
Dibenz(a,h)anthracene	28700	23100		ng/Kg		81	20 - 120
Fluoranthene	28700	24000		ng/Kg		84	45 - 120
Fluorene	28700	24700		ng/Kg		86	44 - 120
Indeno[1,2,3-cd]pyrene	28700	22900		ng/Kg		80	20 - 127
Naphthalene	28700	26800		ng/Kg		93	44 - 120
Phenanthrene	28700	26200		ng/Kg		91	44 - 120
Pyrene	28700	24100		ng/Kg		84	43 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 280-165131/2-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	86		39 - 120
Nitrobenzene-d5	84		42 - 120
Terphenyl-d14	91		35 - 124

Lab Sample ID: 280-39977-2 MS
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: WAMW4(8-10)
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28600	24000		ng/Kg		84	35 - 120
Acenaphthylene	ND		28600	22600		ng/Kg		79	41 - 120
Anthracene	ND		28600	22900		ng/Kg		80	43 - 120
Benzo[a]anthracene	ND		28600	24400		ng/Kg		85	36 - 120
Benzo[a]pyrene	ND		28600	23800		ng/Kg		83	20 - 120
Benzo[b]fluoranthene	ND		28600	24800		ng/Kg		87	37 - 120
Benzo[g,h,i]perylene	ND		28600	23400		ng/Kg		82	20 - 123
Benzo[k]fluoranthene	ND		28600	25400		ng/Kg		89	46 - 120
Chrysene	ND		28600	26700		ng/Kg		93	34 - 120
Dibenz(a,h)anthracene	ND		28600	23900		ng/Kg		84	20 - 120
Fluoranthene	ND		28600	24200		ng/Kg		85	45 - 120
Fluorene	ND		28600	23800		ng/Kg		83	44 - 120
Indeno[1,2,3-cd]pyrene	ND		28600	24800		ng/Kg		87	20 - 127
Naphthalene	ND		28600	24100		ng/Kg		84	44 - 120
Phenanthrene	ND		28600	25400		ng/Kg		89	44 - 120
Pyrene	ND		28600	24100		ng/Kg		84	43 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	80		39 - 120
Nitrobenzene-d5	80		42 - 120
Terphenyl-d14	91		35 - 124

Lab Sample ID: 280-39977-2 MSD
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: WAMW4(8-10)
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		29700	24300		ng/Kg		82	35 - 120	1	50
Acenaphthylene	ND		29700	23200		ng/Kg		78	41 - 120	3	50
Anthracene	ND		29700	23500		ng/Kg		79	43 - 120	2	50
Benzo[a]anthracene	ND		29700	24800		ng/Kg		83	36 - 120	1	40
Benzo[a]pyrene	ND		29700	24000		ng/Kg		81	20 - 120	1	30
Benzo[b]fluoranthene	ND		29700	25000		ng/Kg		84	37 - 120	1	28
Benzo[g,h,i]perylene	ND		29700	23600		ng/Kg		79	20 - 123	1	30
Benzo[k]fluoranthene	ND		29700	25600		ng/Kg		86	46 - 120	1	28
Chrysene	ND		29700	26800		ng/Kg		90	34 - 120	1	41
Dibenz(a,h)anthracene	ND		29700	23700		ng/Kg		80	20 - 120	1	25
Fluoranthene	ND		29700	24700		ng/Kg		83	45 - 120	2	30
Fluorene	ND		29700	24000		ng/Kg		81	44 - 120	1	50

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 280-39977-2 MSD — **Client Sample ID: WAMW4(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165375 — **Prep Batch: 165131**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	ND		29700	24800		ng/Kg		83	20 - 127	0	50
Naphthalene	ND		29700	24800		ng/Kg		83	44 - 120	3	50
Phenanthrene	ND		29700	26200		ng/Kg		88	44 - 120	3	42
Pyrene	ND		29700	24900		ng/Kg		84	43 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*39 - 120*
Nitrobenzene-d5	*79*		*42 - 120*
Terphenyl-d14	*89*		*35 - 124*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 280-165342/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165370 — **Prep Batch: 165342**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		1.2	0.32	mg/Kg		03/18/13 12:16	03/19/13 00:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*77 - 123*	*03/18/13 12:16*	*03/19/13 00:32*	*1*

Lab Sample ID: LCS 280-165342/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165370 — **Prep Batch: 165342**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	5.40	6.43		mg/Kg		119	85 - 153

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*77 - 123*

Lab Sample ID: LCSD 280-165342/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165370 — **Prep Batch: 165342**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	5.42	6.84		mg/Kg		126	85 - 153	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*77 - 123*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 280-39977-1 MS — **Client Sample ID: WAMW4(4-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165370 — **Prep Batch: 165342**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	0.50	J	5.49	6.62		mg/Kg		111	85 - 153

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*77 - 123*

Lab Sample ID: 280-39977-1 MSD — **Client Sample ID: WAMW4(4-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165370 — **Prep Batch: 165342**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	0.50	J	5.41	6.45		mg/Kg		110	85 - 153	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*77 - 123*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-165194/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165303 — **Prep Batch: 165194**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO [C10-C36]	ND		4.0	0.99	mg/Kg		03/16/13 13:15	03/18/13 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*49 - 115*	*03/16/13 13:15*	*03/18/13 12:48*	*1*

Lab Sample ID: LCS 280-165194/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165303 — **Prep Batch: 165194**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO [C10-C36]	66.7	62.6		mg/Kg		94	57 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*49 - 115*

Lab Sample ID: 280-39977-4 MS — **Client Sample ID: WAMW5(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165303 — **Prep Batch: 165194**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO [C10-C36]	1.0	J	64.8	57.4		mg/Kg		87	57 - 115

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 280-39977-4 MS — **Client Sample ID: WAMW5(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165303 — **Prep Batch: 165194**

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	93		49 - 115

Lab Sample ID: 280-39977-4 MSD — **Client Sample ID: WAMW5(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165303 — **Prep Batch: 165194**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO [C10-C36]	1.0	J	66.3	61.1		mg/Kg		91	57 - 115	6	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	101		49 - 115

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-165153/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Barium	ND		1.0	0.076	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Cadmium	ND		0.50	0.041	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Chromium	ND		1.5	0.058	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Lead	ND		0.80	0.27	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Selenium	ND		1.3	0.86	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Silver	ND		1.0	0.16	mg/Kg		03/19/13 06:30	03/20/13 17:14	1

Lab Sample ID: LCS 280-165153/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	99.7		mg/Kg		100	85 - 110
Barium	200	206		mg/Kg		103	87 - 112
Cadmium	10.0	9.51		mg/Kg		95	87 - 110
Chromium	20.0	20.0		mg/Kg		100	84 - 114
Lead	50.0	49.5		mg/Kg		99	86 - 110
Selenium	200	192		mg/Kg		96	83 - 110
Silver	5.00	5.15		mg/Kg		103	87 - 114

Lab Sample ID: 280-39971-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.0		86.2	82.8		mg/Kg		89	76 - 111
Barium	98		172	261		mg/Kg		95	52 - 159
Cadmium	0.71		8.62	7.88		mg/Kg		83	40 - 130

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-39971-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	11		17.2	29.1		mg/Kg		104	70 - 200
Lead	59		43.1	87.2	F	mg/Kg		65	70 - 200
Selenium	ND		172	148		mg/Kg		86	76 - 104
Silver	0.45	J	4.31	4.88		mg/Kg		103	75 - 141

Lab Sample ID: 280-39971-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.0		94.3	92.6		mg/Kg		92	76 - 111	11	20
Barium	98		189	292		mg/Kg		103	52 - 159	11	20
Cadmium	0.71		9.43	8.76		mg/Kg		85	40 - 130	11	20
Chromium	11		18.9	31.0		mg/Kg		105	70 - 200	6	20
Lead	59		47.2	93.7		mg/Kg		73	70 - 200	7	20
Selenium	ND		189	166		mg/Kg		88	76 - 104	11	20
Silver	0.45	J	4.72	5.03		mg/Kg		97	75 - 141	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-165400/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 18:25	1

Lab Sample ID: LCS 280-165400/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	432		ug/Kg		104	87 - 111

Lab Sample ID: 280-39971-A-1-E MS ^5 — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	350		373	735		ug/Kg		104	87 - 111

Lab Sample ID: 280-39971-A-1-F MSD ^5 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	350		424	847	F	ug/Kg		118	87 - 111	14	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Client Sample ID: WAMW4(4-6)

Lab Sample ID: 280-39977-1

Date Collected: 03/13/13 10:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.971 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 15:00	JR	TAL DEN
Total/NA	Prep	3546			30.2 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 20:08	JS	TAL DEN
Total/NA	Prep	5030B			10.25 g	10 mL	165342	03/18/13 12:16	TEM	TAL DEN
Total/NA	Analysis	8015B		1			165370	03/18/13 20:36	TEM	TAL DEN
Total/NA	Prep	3546			30.2 g	1000 uL	165194	03/16/13 13:15	LC	TAL DEN
Total/NA	Analysis	8015B		1			165303	03/18/13 13:48	AMP	TAL DEN
Total/NA	Prep	7471A			.54 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:09	JM	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:00	HEB	TAL DEN

Client Sample ID: WAMW4(8-10)

Lab Sample ID: 280-39977-2

Date Collected: 03/13/13 10:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.447 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 15:22	JR	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 20:35	JS	TAL DEN
Total/NA	Prep	5030B			10.25 g	10 mL	165342	03/18/13 12:16	TEM	TAL DEN
Total/NA	Analysis	8015B		1			165370	03/18/13 22:05	TEM	TAL DEN
Total/NA	Prep	3546			30.4 g	1000 uL	165194	03/16/13 13:15	LC	TAL DEN
Total/NA	Analysis	8015B		1			165303	03/18/13 14:18	AMP	TAL DEN
Total/NA	Prep	7471A			.61 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:11	JM	TAL DEN
Total/NA	Prep	3050B			1.14 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:02	HEB	TAL DEN

Client Sample ID: WAMW5(4-6)

Lab Sample ID: 280-39977-3

Date Collected: 03/13/13 11:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.085 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 15:43	JR	TAL DEN
Total/NA	Prep	3546			30.5 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 21:53	JS	TAL DEN
Total/NA	Prep	5030B			10.10 g	10 mL	165342	03/18/13 12:16	TEM	TAL DEN
Total/NA	Analysis	8015B		1			165370	03/18/13 22:35	TEM	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	165194	03/16/13 13:15	LC	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-39977-1

Client Sample ID: WAMW5(4-6)

Lab Sample ID: 280-39977-3

Date Collected: 03/13/13 11:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1			165303	03/18/13 14:48	AMP	TAL DEN
Total/NA	Prep	7471A			.55 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:13	JM	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:05	HEB	TAL DEN

Client Sample ID: WAMW5(8-10)

Lab Sample ID: 280-39977-4

Date Collected: 03/13/13 11:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.509 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 16:05	JR	TAL DEN
Total/NA	Prep	3546			30.6 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 22:20	JS	TAL DEN
Total/NA	Prep	5030B			10.17 g	10 mL	165342	03/18/13 12:16	TEM	TAL DEN
Total/NA	Analysis	8015B		1			165370	03/18/13 23:04	TEM	TAL DEN
Total/NA	Prep	3546			30.8 g	1000 uL	165194	03/16/13 13:15	LC	TAL DEN
Total/NA	Analysis	8015B		1			165303	03/18/13 15:18	AMP	TAL DEN
Total/NA	Prep	7471A			.59 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:20	JM	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:07	HEB	TAL DEN

Client Sample ID: WAMW5(4-6)D

Lab Sample ID: 280-39977-5

Date Collected: 03/13/13 00:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.31 g	10 mL	165342	03/18/13 12:16	TEM	TAL DEN
Total/NA	Analysis	8015B		1			165370	03/18/13 23:33	TEM	TAL DEN
Total/NA	Prep	3546			30.6 g	1000 uL	165194	03/16/13 13:15	LC	TAL DEN
Total/NA	Analysis	8015B		1			165303	03/18/13 16:49	AMP	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____ 4.4 4.0

Temperature on Receipt 5.2 FP

Drinking Water? Yes ☐ No ☒ 3/14/13

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

Client	Project Manager	Date	Chain of Custody Number
Walsh Environmental	Craig Carter	3-13-13	172731
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
820 16th Street #400	303-573-5545 / 303-573-5525		

City	State	Zip Code	Site Contact	Lab Contact
Denver	CO	80202	A. Umyn	D. Rydberg

Project Name and Location (State): Cliff Brice

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: WA-01925-0001-10TTO

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Metals	DRO	GRO	VOC / MTBE	PAH								Special Instructions/ Conditions of Receipt
WAMW4 (4-6)	03.13.13	1045				X									X	X	X	X	X								
WAMW4 (8-10)	↓	1045				X									X	X	X	X	X								
WAMW5 (4-6)	↓	1105				X									X	X	X	X	X								
WAMW5 (8-10)	03.13.13	1110				X									X	X	X	X	X								
WAMW5 (4-6)	03.13.13	—				X										X	X										

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	3.14.13	1620	1. Received By	3/14/13	620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-39977-1

Login Number: 39977

List Source: TestAmerica Denver

List Number: 1

Creator: Bindel, Aaron M

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.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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: 280-39971-1
Client Project/Site: Rockwool/West Hill

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/22/2013 10:31:14 AM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

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.
F	MS or MSD exceeds the control limits

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-39971-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Rockwool/West Hill

Report Number: 280-39971-1

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 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2C.

The collection dates for the samples are listed as 2/13/2013 on the chain of custody; the laboratory believes this is a transcription error and has logged the sample collection dates as 3/13/2013. The client was notified on 3/15/2013.

TOTAL METALS

The MS associated with batch 280-165909, performed on sample RW04(5-6) (280-39971-1) exhibited spike recoveries outside QC control limits for Lead. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required

Samples RW05(4-5) (280-39971-3)[25X], RW05(9-10) (280-39971-4)[25X], WH01(9-10) (280-39971-6)[5X] and WH03(9-10) (280-39971-9)[5X] required dilution prior to analysis due to a high concentration of non-target analytes. The reporting limits have been adjusted accordingly.

The MSD associated with batch 280-165749, performed on sample RW04(5-6) (280-39971-1) exhibited spike recoveries outside QC control limits for Mercury. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required

Samples RW04(5-6) (280-39971-1)[5X] and RW04(9-10) (280-39971-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Client Sample ID: RW04(5-6) — Lab Sample ID: 280-39971-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	98		0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	0.71		0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	11		1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	59		0.71	0.24	mg/Kg	1		6010B	Total/NA
Silver	0.45	J	0.88	0.14	mg/Kg	1		6010B	Total/NA
Mercury	350		86	28	ug/Kg	5		7471A	Total/NA

Client Sample ID: RW04(9-10) — Lab Sample ID: 280-39971-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	160		0.94	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	1.3		0.47	0.039	mg/Kg	1		6010B	Total/NA
Chromium	15		1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	200		0.75	0.25	mg/Kg	1		6010B	Total/NA
Selenium	0.96	J	1.2	0.81	mg/Kg	1		6010B	Total/NA
Silver	1.8		0.94	0.15	mg/Kg	1		6010B	Total/NA
Mercury	1700		170	54	ug/Kg	10		7471A	Total/NA

Client Sample ID: RW05(4-5) — Lab Sample ID: 280-39971-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	35		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	2700		0.93	0.071	mg/Kg	1		6010B	Total/NA
Cadmium	1.4		0.47	0.038	mg/Kg	1		6010B	Total/NA
Chromium	20		1.4	0.054	mg/Kg	1		6010B	Total/NA
Lead	1700		0.75	0.25	mg/Kg	1		6010B	Total/NA
Silver	12		0.93	0.15	mg/Kg	1		6010B	Total/NA
Mercury	37		16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: RW05(9-10) — Lab Sample ID: 280-39971-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	40		1.8	0.61	mg/Kg	1		6010B	Total/NA
Barium	10000		23	1.7	mg/Kg	25		6010B	Total/NA
Cadmium	0.33	J	0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	12		1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	2400		0.73	0.25	mg/Kg	1		6010B	Total/NA
Silver	24		0.92	0.15	mg/Kg	1		6010B	Total/NA
Mercury	16		16	5.2	ug/Kg	1		7471A	Total/NA

Client Sample ID: WH01(5-6) — Lab Sample ID: 280-39971-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	180		0.93	0.071	mg/Kg	1		6010B	Total/NA
Cadmium	1.0		0.47	0.038	mg/Kg	1		6010B	Total/NA
Chromium	18		1.4	0.054	mg/Kg	1		6010B	Total/NA
Lead	490		0.75	0.25	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Client Sample ID: WH01(5-6) (Continued) — Lab Sample ID: 280-39971-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.99	J	1.2	0.80	mg/Kg	1		6010B	Total/NA
Silver	0.24	J	0.93	0.15	mg/Kg	1		6010B	Total/NA
Mercury	140		18	5.9	ug/Kg	1		7471A	Total/NA

Client Sample ID: WH01(9-10) — Lab Sample ID: 280-39971-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		1.7	0.55	mg/Kg	1		6010B	Total/NA
Barium	1300		0.84	0.064	mg/Kg	1		6010B	Total/NA
Cadmium	1.8		0.42	0.034	mg/Kg	1		6010B	Total/NA
Chromium	12		1.3	0.049	mg/Kg	1		6010B	Total/NA
Lead	410		0.67	0.23	mg/Kg	1		6010B	Total/NA
Silver	2.3		0.84	0.13	mg/Kg	1		6010B	Total/NA
Mercury	50		18	5.8	ug/Kg	1		7471A	Total/NA

Client Sample ID: WH02(5-6) — Lab Sample ID: 280-39971-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	140		0.90	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	0.71		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	9.0		1.4	0.052	mg/Kg	1		6010B	Total/NA
Lead	100		0.72	0.24	mg/Kg	1		6010B	Total/NA
Mercury	69		17	5.6	ug/Kg	1		7471A	Total/NA

Client Sample ID: WH03(5-6) — Lab Sample ID: 280-39971-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	170		0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	1.4		0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	12		1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	270		0.71	0.24	mg/Kg	1		6010B	Total/NA
Selenium	1.0	J	1.2	0.76	mg/Kg	1		6010B	Total/NA
Silver	0.19	J	0.88	0.14	mg/Kg	1		6010B	Total/NA
Mercury	150		16	5.2	ug/Kg	1		7471A	Total/NA

Client Sample ID: WH03(9-10) — Lab Sample ID: 280-39971-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		1.7	0.57	mg/Kg	1		6010B	Total/NA
Barium	600		0.87	0.066	mg/Kg	1		6010B	Total/NA
Cadmium	0.73		0.43	0.036	mg/Kg	1		6010B	Total/NA
Chromium	6.8		1.3	0.050	mg/Kg	1		6010B	Total/NA
Lead	520		0.70	0.23	mg/Kg	1		6010B	Total/NA
Silver	0.89		0.87	0.14	mg/Kg	1		6010B	Total/NA
Mercury	8.4	J	20	6.4	ug/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL DEN
7471A	Mercury (CVAA)	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: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-39971-1	RW04(5-6)	Solid	03/13/13 09:05	03/14/13 16:20
280-39971-2	RW04(9-10)	Solid	03/13/13 09:05	03/14/13 16:20
280-39971-3	RW05(4-5)	Solid	03/13/13 09:25	03/14/13 16:20
280-39971-4	RW05(9-10)	Solid	03/13/13 09:30	03/14/13 16:20
280-39971-5	WH01(5-6)	Solid	03/13/13 08:45	03/14/13 16:20
280-39971-6	WH01(9-10)	Solid	03/13/13 08:50	03/14/13 16:20
280-39971-7	WH02(5-6)	Solid	03/13/13 08:32	03/14/13 16:20
280-39971-8	WH03(5-6)	Solid	03/13/13 08:25	03/14/13 16:20
280-39971-9	WH03(9-10)	Solid	03/13/13 08:30	03/14/13 16:20

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Method: 6010B - Metals (ICP)

Client Sample ID: RW04(5-6) — **Lab Sample ID: 280-39971-1**
Date Collected: 03/13/13 09:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		1.8	0.58	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Barium	98		0.88	0.067	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Cadmium	0.71		0.44	0.036	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Chromium	11		1.3	0.051	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Lead	59		0.71	0.24	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Selenium	ND		1.2	0.76	mg/Kg		03/19/13 06:30	03/20/13 17:19	1
Silver	0.45	J	0.88	0.14	mg/Kg		03/19/13 06:30	03/20/13 17:19	1

Client Sample ID: RW04(9-10) — **Lab Sample ID: 280-39971-2**
Date Collected: 03/13/13 09:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		1.9	0.62	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Barium	160		0.94	0.072	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Cadmium	1.3		0.47	0.039	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Chromium	15		1.4	0.055	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Lead	200		0.75	0.25	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Selenium	0.96	J	1.2	0.81	mg/Kg		03/19/13 06:30	03/20/13 17:28	1
Silver	1.8		0.94	0.15	mg/Kg		03/19/13 06:30	03/20/13 17:28	1

Client Sample ID: RW05(4-5) — **Lab Sample ID: 280-39971-3**
Date Collected: 03/13/13 09:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35		1.9	0.62	mg/Kg		03/19/13 06:30	03/20/13 17:31	1
Barium	2700		0.93	0.071	mg/Kg		03/19/13 06:30	03/20/13 17:31	1
Cadmium	1.4		0.47	0.038	mg/Kg		03/19/13 06:30	03/20/13 17:31	1
Chromium	20		1.4	0.054	mg/Kg		03/19/13 06:30	03/20/13 17:31	1
Lead	1700		0.75	0.25	mg/Kg		03/19/13 06:30	03/20/13 17:31	1
Selenium	ND		30	20	mg/Kg		03/19/13 06:30	03/21/13 11:40	25
Silver	12		0.93	0.15	mg/Kg		03/19/13 06:30	03/20/13 17:31	1

Client Sample ID: RW05(9-10) — **Lab Sample ID: 280-39971-4**
Date Collected: 03/13/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	40		1.8	0.61	mg/Kg		03/19/13 06:30	03/20/13 17:34	1
Barium	10000		23	1.7	mg/Kg		03/19/13 06:30	03/21/13 11:43	25
Cadmium	0.33	J	0.46	0.038	mg/Kg		03/19/13 06:30	03/20/13 17:34	1
Chromium	12		1.4	0.053	mg/Kg		03/19/13 06:30	03/20/13 17:34	1
Lead	2400		0.73	0.25	mg/Kg		03/19/13 06:30	03/20/13 17:34	1
Selenium	ND		30	20	mg/Kg		03/19/13 06:30	03/21/13 11:43	25
Silver	24		0.92	0.15	mg/Kg		03/19/13 06:30	03/20/13 17:34	1

Client Sample ID: WH01(5-6) — **Lab Sample ID: 280-39971-5**
Date Collected: 03/13/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.9	0.62	mg/Kg		03/19/13 06:30	03/20/13 17:48	1
Barium	180		0.93	0.071	mg/Kg		03/19/13 06:30	03/20/13 17:48	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: WH01(5-6) — **Lab Sample ID: 280-39971-5**
Date Collected: 03/13/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.0		0.47	0.038	mg/Kg		03/19/13 06:30	03/20/13 17:48	1
Chromium	18		1.4	0.054	mg/Kg		03/19/13 06:30	03/20/13 17:48	1
Lead	490		0.75	0.25	mg/Kg		03/19/13 06:30	03/20/13 17:48	1
Selenium	0.99	J	1.2	0.80	mg/Kg		03/19/13 06:30	03/20/13 17:48	1
Silver	0.24	J	0.93	0.15	mg/Kg		03/19/13 06:30	03/20/13 17:48	1

Client Sample ID: WH01(9-10) — **Lab Sample ID: 280-39971-6**
Date Collected: 03/13/13 08:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.7	0.55	mg/Kg		03/19/13 06:30	03/20/13 17:50	1
Barium	1300		0.84	0.064	mg/Kg		03/19/13 06:30	03/20/13 17:50	1
Cadmium	1.8		0.42	0.034	mg/Kg		03/19/13 06:30	03/20/13 17:50	1
Chromium	12		1.3	0.049	mg/Kg		03/19/13 06:30	03/20/13 17:50	1
Lead	410		0.67	0.23	mg/Kg		03/19/13 06:30	03/20/13 17:50	1
Selenium	ND		5.5	3.6	mg/Kg		03/19/13 06:30	03/21/13 11:45	5
Silver	2.3		0.84	0.13	mg/Kg		03/19/13 06:30	03/20/13 17:50	1

Client Sample ID: WH02(5-6) — **Lab Sample ID: 280-39971-7**
Date Collected: 03/13/13 08:32 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		1.8	0.59	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Barium	140		0.90	0.068	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Cadmium	0.71		0.45	0.037	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Chromium	9.0		1.4	0.052	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Lead	100		0.72	0.24	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Selenium	ND		1.2	0.77	mg/Kg		03/19/13 06:30	03/20/13 17:53	1
Silver	ND		0.90	0.14	mg/Kg		03/19/13 06:30	03/20/13 17:53	1

Client Sample ID: WH03(5-6) — **Lab Sample ID: 280-39971-8**
Date Collected: 03/13/13 08:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		1.8	0.58	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Barium	170		0.88	0.067	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Cadmium	1.4		0.44	0.036	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Chromium	12		1.3	0.051	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Lead	270		0.71	0.24	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Selenium	1.0	J	1.2	0.76	mg/Kg		03/19/13 06:30	03/20/13 17:55	1
Silver	0.19	J	0.88	0.14	mg/Kg		03/19/13 06:30	03/20/13 17:55	1

Client Sample ID: WH03(9-10) — **Lab Sample ID: 280-39971-9**
Date Collected: 03/13/13 08:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.2		1.7	0.57	mg/Kg		03/19/13 06:30	03/20/13 17:57	1
Barium	600		0.87	0.066	mg/Kg		03/19/13 06:30	03/20/13 17:57	1
Cadmium	0.73		0.43	0.036	mg/Kg		03/19/13 06:30	03/20/13 17:57	1
Chromium	6.8		1.3	0.050	mg/Kg		03/19/13 06:30	03/20/13 17:57	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: WH03(9-10) — **Lab Sample ID: 280-39971-9**
Date Collected: 03/13/13 08:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	520		0.70	0.23	mg/Kg		03/19/13 06:30	03/20/13 17:57	1
Selenium	ND		5.7	3.7	mg/Kg		03/19/13 06:30	03/21/13 11:48	5
Silver	0.89		0.87	0.14	mg/Kg		03/19/13 06:30	03/20/13 17:57	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: RW04(5-6) — **Lab Sample ID: 280-39971-1**
Date Collected: 03/13/13 09:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	350		86	28	ug/Kg		03/19/13 13:15	03/19/13 23:21	5

Client Sample ID: RW04(9-10) — **Lab Sample ID: 280-39971-2**
Date Collected: 03/13/13 09:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1700		170	54	ug/Kg		03/19/13 13:15	03/19/13 23:28	10

Client Sample ID: RW05(4-5) — **Lab Sample ID: 280-39971-3**
Date Collected: 03/13/13 09:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 18:53	1

Client Sample ID: RW05(9-10) — **Lab Sample ID: 280-39971-4**
Date Collected: 03/13/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16		16	5.2	ug/Kg		03/19/13 13:15	03/19/13 18:55	1

Client Sample ID: WH01(5-6) — **Lab Sample ID: 280-39971-5**
Date Collected: 03/13/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	140		18	5.9	ug/Kg		03/19/13 13:15	03/19/13 18:57	1

Client Sample ID: WH01(9-10) — **Lab Sample ID: 280-39971-6**
Date Collected: 03/13/13 08:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	50		18	5.8	ug/Kg		03/19/13 13:15	03/19/13 19:00	1

Client Sample ID: WH02(5-6) — **Lab Sample ID: 280-39971-7**
Date Collected: 03/13/13 08:32 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	69		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 19:02	1

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: WH03(5-6) — **Lab Sample ID: 280-39971-8**
Date Collected: 03/13/13 08:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	150		16	5.2	ug/Kg		03/19/13 13:15	03/19/13 19:04	1

Client Sample ID: WH03(9-10) — **Lab Sample ID: 280-39971-9**
Date Collected: 03/13/13 08:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.4	J	20	6.4	ug/Kg		03/19/13 13:15	03/19/13 19:07	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Metals

Prep Batch: 165153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-1	RW04(5-6)	Total/NA	Solid	3050B	
280-39971-1 MS	RW04(5-6)	Total/NA	Solid	3050B	
280-39971-1 MSD	RW04(5-6)	Total/NA	Solid	3050B	
280-39971-2	RW04(9-10)	Total/NA	Solid	3050B	
280-39971-3	RW05(4-5)	Total/NA	Solid	3050B	
280-39971-4	RW05(9-10)	Total/NA	Solid	3050B	
280-39971-5	WH01(5-6)	Total/NA	Solid	3050B	
280-39971-6	WH01(9-10)	Total/NA	Solid	3050B	
280-39971-7	WH02(5-6)	Total/NA	Solid	3050B	
280-39971-8	WH03(5-6)	Total/NA	Solid	3050B	
280-39971-9	WH03(9-10)	Total/NA	Solid	3050B	
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165153/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 165400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-1	RW04(5-6)	Total/NA	Solid	7471A	
280-39971-1 MS	RW04(5-6)	Total/NA	Solid	7471A	
280-39971-1 MSD	RW04(5-6)	Total/NA	Solid	7471A	
280-39971-2	RW04(9-10)	Total/NA	Solid	7471A	
280-39971-3	RW05(4-5)	Total/NA	Solid	7471A	
280-39971-4	RW05(9-10)	Total/NA	Solid	7471A	
280-39971-5	WH01(5-6)	Total/NA	Solid	7471A	
280-39971-6	WH01(9-10)	Total/NA	Solid	7471A	
280-39971-7	WH02(5-6)	Total/NA	Solid	7471A	
280-39971-8	WH03(5-6)	Total/NA	Solid	7471A	
280-39971-9	WH03(9-10)	Total/NA	Solid	7471A	
LCS 280-165400/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-165400/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 165749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-1	RW04(5-6)	Total/NA	Solid	7471A	165400
280-39971-1 MS	RW04(5-6)	Total/NA	Solid	7471A	165400
280-39971-1 MSD	RW04(5-6)	Total/NA	Solid	7471A	165400
280-39971-2	RW04(9-10)	Total/NA	Solid	7471A	165400
280-39971-3	RW05(4-5)	Total/NA	Solid	7471A	165400
280-39971-4	RW05(9-10)	Total/NA	Solid	7471A	165400
280-39971-5	WH01(5-6)	Total/NA	Solid	7471A	165400
280-39971-6	WH01(9-10)	Total/NA	Solid	7471A	165400
280-39971-7	WH02(5-6)	Total/NA	Solid	7471A	165400
280-39971-8	WH03(5-6)	Total/NA	Solid	7471A	165400
280-39971-9	WH03(9-10)	Total/NA	Solid	7471A	165400
LCS 280-165400/2-A	Lab Control Sample	Total/NA	Solid	7471A	165400
MB 280-165400/1-A	Method Blank	Total/NA	Solid	7471A	165400

Analysis Batch: 165909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-1	RW04(5-6)	Total/NA	Solid	6010B	165153
280-39971-1 MS	RW04(5-6)	Total/NA	Solid	6010B	165153
280-39971-1 MSD	RW04(5-6)	Total/NA	Solid	6010B	165153

Metals (Continued)

Analysis Batch: 165909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-2	RW04(9-10)	Total/NA	Solid	6010B	165153
280-39971-3	RW05(4-5)	Total/NA	Solid	6010B	165153
280-39971-4	RW05(9-10)	Total/NA	Solid	6010B	165153
280-39971-5	WH01(5-6)	Total/NA	Solid	6010B	165153
280-39971-6	WH01(9-10)	Total/NA	Solid	6010B	165153
280-39971-7	WH02(5-6)	Total/NA	Solid	6010B	165153
280-39971-8	WH03(5-6)	Total/NA	Solid	6010B	165153
280-39971-9	WH03(9-10)	Total/NA	Solid	6010B	165153
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	6010B	165153
MB 280-165153/1-A	Method Blank	Total/NA	Solid	6010B	165153

Analysis Batch: 166016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-3	RW05(4-5)	Total/NA	Solid	6010B	165153
280-39971-4	RW05(9-10)	Total/NA	Solid	6010B	165153
280-39971-6	WH01(9-10)	Total/NA	Solid	6010B	165153
280-39971-9	WH03(9-10)	Total/NA	Solid	6010B	165153

QC Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-165153/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Barium	ND		1.0	0.076	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Cadmium	ND		0.50	0.041	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Chromium	ND		1.5	0.058	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Lead	ND		0.80	0.27	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Selenium	ND		1.3	0.86	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Silver	ND		1.0	0.16	mg/Kg		03/19/13 06:30	03/20/13 17:14	1

Lab Sample ID: LCS 280-165153/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	99.7		mg/Kg		100	85 - 110
Barium	200	206		mg/Kg		103	87 - 112
Cadmium	10.0	9.51		mg/Kg		95	87 - 110
Chromium	20.0	20.0		mg/Kg		100	84 - 114
Lead	50.0	49.5		mg/Kg		99	86 - 110
Selenium	200	192		mg/Kg		96	83 - 110
Silver	5.00	5.15		mg/Kg		103	87 - 114

Lab Sample ID: 280-39971-1 MS — **Client Sample ID: RW04(5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.0		86.2	82.8		mg/Kg		89	76 - 111
Barium	98		172	261		mg/Kg		95	52 - 159
Cadmium	0.71		8.62	7.88		mg/Kg		83	40 - 130
Chromium	11		17.2	29.1		mg/Kg		104	70 - 200
Lead	59		43.1	87.2	F	mg/Kg		65	70 - 200
Selenium	ND		172	148		mg/Kg		86	76 - 104
Silver	0.45	J	4.31	4.88		mg/Kg		103	75 - 141

Lab Sample ID: 280-39971-1 MSD — **Client Sample ID: RW04(5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.0		94.3	92.6		mg/Kg		92	76 - 111	11	20
Barium	98		189	292		mg/Kg		103	52 - 159	11	20
Cadmium	0.71		9.43	8.76		mg/Kg		85	40 - 130	11	20
Chromium	11		18.9	31.0		mg/Kg		105	70 - 200	6	20
Lead	59		47.2	93.7		mg/Kg		73	70 - 200	7	20
Selenium	ND		189	166		mg/Kg		88	76 - 104	11	20
Silver	0.45	J	4.72	5.03		mg/Kg		97	75 - 141	3	20

QC Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-165400/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 18:25	1

Lab Sample ID: LCS 280-165400/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			417	432		ug/Kg		104	87 - 111		

Lab Sample ID: 280-39971-1 MS — **Client Sample ID: RW04(5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	350		373	735		ug/Kg		104	87 - 111		

Lab Sample ID: 280-39971-1 MSD — **Client Sample ID: RW04(5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	350		424	847	F	ug/Kg		118	87 - 111	14	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Client Sample ID: RW04(5-6)

Lab Sample ID: 280-39971-1
Date Collected: 03/13/13 09:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.59 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		5			165749	03/19/13 23:21	JM	TAL DEN
Total/NA	Prep	3050B			1.13 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:19	HEB	TAL DEN

Client Sample ID: RW04(9-10)

Lab Sample ID: 280-39971-2
Date Collected: 03/13/13 09:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.61 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		10			165749	03/19/13 23:28	JM	TAL DEN
Total/NA	Prep	3050B			1.06 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:28	HEB	TAL DEN

Client Sample ID: RW05(4-5)

Lab Sample ID: 280-39971-3
Date Collected: 03/13/13 09:25
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.65 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 18:53	JM	TAL DEN
Total/NA	Prep	3050B			1.07 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:31	HEB	TAL DEN
Total/NA	Analysis	6010B		25			166016	03/21/13 11:40	HEB	TAL DEN

Client Sample ID: RW05(9-10)

Lab Sample ID: 280-39971-4
Date Collected: 03/13/13 09:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.64 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 18:55	JM	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:34	HEB	TAL DEN
Total/NA	Analysis	6010B		25			166016	03/21/13 11:43	HEB	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Client Sample ID: WH01(5-6)

Lab Sample ID: 280-39971-5

Date Collected: 03/13/13 08:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.56 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 18:57	JM	TAL DEN
Total/NA	Prep	3050B			1.07 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:48	HEB	TAL DEN

Client Sample ID: WH01(9-10)

Lab Sample ID: 280-39971-6

Date Collected: 03/13/13 08:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.57 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:00	JM	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:50	HEB	TAL DEN
Total/NA	Analysis	6010B		5			166016	03/21/13 11:45	HEB	TAL DEN

Client Sample ID: WH02(5-6)

Lab Sample ID: 280-39971-7

Date Collected: 03/13/13 08:32
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.59 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:02	JM	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:53	HEB	TAL DEN

Client Sample ID: WH03(5-6)

Lab Sample ID: 280-39971-8

Date Collected: 03/13/13 08:25
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.64 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:04	JM	TAL DEN
Total/NA	Prep	3050B			1.13 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:55	HEB	TAL DEN

Client Sample ID: WH03(9-10)

Lab Sample ID: 280-39971-9

Date Collected: 03/13/13 08:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.52 g	50 mL	165400	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:07	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Rockwool/West Hill

TestAmerica Job ID: 280-39971-1

Client Sample ID: WH03(9-10)

Date Collected: 03/13/13 08:30
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39971-9

Matrix: Solid

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	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 17:57	HEB	TAL DEN
Total/NA	Analysis	6010B		5			166016	03/21/13 11:48	HEB	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter	Date: 3/13/2013	Chain of Custody Number: 172730
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 1 of 1
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Unyn	Lab Contact: D. Rydberg	
Project Name and Location (State): Rockwool / West Hill	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1040			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Metals	Special Instructions/ Conditions of Receipt
RW04 (5-6)	2/13/2013	09:05				X	1						X	
RW04 (9-10)	2/13/2013	09:05				X	1						X	
RW05 (4-5)	↓	09:25				X	1						X	
RW05 (9-10)	↓	09:30				X	1						X	
WH01 (5-6)	2/13/2013	08:45				X	1						X	
WH01 (9-10)	↓	08:50				X	1						X	
WH02 (5-6)	↓	08:32				X	1						X	
WH03 (5-6)	↓	08:25				X	1						X	
WH03 (9-10)	2/13/2013	08:30				X	1						X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-39971-1

Login Number: 39971

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").	N/A	
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: 280-39983-2
Client Project/Site: Speker Metal

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
4/18/2013 3:16:05 PM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-39983-2

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Speker Metal

Report Number: 280-39983-2

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 March 14, 2013. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.0º C and 4.4º C.

The collection dates on the chain of custody are listed as being collected in February. The collection dates were not recorded on the container labels; the laboratory did not have a secondary collection date to confirm that the samples are received within the extraction holding time. Per the client on March 18, 2013 the samples were collected in March.

TCLP METALS

No difficulties were encountered during the TCLP metals analyses.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN1(1-2) — Lab Sample ID: 280-39983-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.69		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN2(1-2) — Lab Sample ID: 280-39983-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.36	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN3(1-2) — Lab Sample ID: 280-39983-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.64		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN4(1-2) — Lab Sample ID: 280-39983-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.018	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN5(1-2) — Lab Sample ID: 280-39983-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.52		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN11(1-2) — Lab Sample ID: 280-39983-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.41	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN14(1-2) — Lab Sample ID: 280-39983-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.6		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN14(1-2)D — Lab Sample ID: 280-39983-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.14	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN15(1-2) — Lab Sample ID: 280-39983-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.39	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN18(1-2) — Lab Sample ID: 280-39983-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.2		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN19(1-2) — Lab Sample ID: 280-39983-31

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN19(1-2) (Continued) — Lab Sample ID: 280-39983-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.4		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN21(1-2) — Lab Sample ID: 280-39983-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.11	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN23(1-2) — Lab Sample ID: 280-39983-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.1		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN24(1-2) — Lab Sample ID: 280-39983-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.092	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN25(1-2) — Lab Sample ID: 280-39983-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.90		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN26(1-2) — Lab Sample ID: 280-39983-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.37	J	0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN27(1-2) — Lab Sample ID: 280-39983-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	130		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN28(1-2) — Lab Sample ID: 280-39983-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	54		0.50	0.013	mg/L	1		6010B	TCLP

Client Sample ID: SPKN30(1-2) — Lab Sample ID: 280-39983-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.083	J	0.50	0.013	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

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: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-39983-1	SPKN1(1-2)	Solid	03/12/13 13:30	03/14/13 16:20
280-39983-2	SPKN2(1-2)	Solid	03/12/13 13:05	03/14/13 16:20
280-39983-3	SPKN3(1-2)	Solid	03/12/13 11:40	03/14/13 16:20
280-39983-4	SPKN4(1-2)	Solid	03/12/13 08:45	03/14/13 16:20
280-39983-8	SPKN5(1-2)	Solid	03/11/13 15:45	03/14/13 16:20
280-39983-18	SPKN11(1-2)	Solid	03/11/13 09:30	03/14/13 16:20
280-39983-21	SPKN14(1-2)	Solid	03/12/13 10:50	03/14/13 16:20
280-39983-22	SPKN14(1-2)D	Solid	03/12/13 10:50	03/14/13 16:20
280-39983-23	SPKN15(1-2)	Solid	03/12/13 09:10	03/14/13 16:20
280-39983-30	SPKN18(1-2)	Solid	03/11/13 13:20	03/14/13 16:20
280-39983-31	SPKN19(1-2)	Solid	03/11/13 11:45	03/14/13 16:20
280-39983-33	SPKN21(1-2)	Solid	03/11/13 10:00	03/14/13 16:20
280-39983-35	SPKN23(1-2)	Solid	03/12/13 15:30	03/14/13 16:20
280-39983-37	SPKN24(1-2)	Solid	03/12/13 10:05	03/14/13 16:20
280-39983-40	SPKN25(1-2)	Solid	03/12/13 09:30	03/14/13 16:20
280-39983-43	SPKN26(1-2)	Solid	03/11/13 14:35	03/14/13 16:20
280-39983-45	SPKN27(1-2)	Solid	03/11/13 13:45	03/14/13 16:20
280-39983-46	SPKN28(1-2)	Solid	03/11/13 12:05	03/14/13 16:20
280-39983-48	SPKN30(1-2)	Solid	03/11/13 10:05	03/14/13 16:20

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SPKN1(1-2) — **Lab Sample ID: 280-39983-1**
Date Collected: 03/12/13 13:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.69		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:46	1

Client Sample ID: SPKN2(1-2) — **Lab Sample ID: 280-39983-2**
Date Collected: 03/12/13 13:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.36	J	0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:49	1

Client Sample ID: SPKN3(1-2) — **Lab Sample ID: 280-39983-3**
Date Collected: 03/12/13 11:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.64		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:51	1

Client Sample ID: SPKN4(1-2) — **Lab Sample ID: 280-39983-4**
Date Collected: 03/12/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.018	J	0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:32	1

Client Sample ID: SPKN5(1-2) — **Lab Sample ID: 280-39983-8**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.52		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:53	1

Client Sample ID: SPKN11(1-2) — **Lab Sample ID: 280-39983-18**
Date Collected: 03/11/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.41	J	0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:35	1

Client Sample ID: SPKN14(1-2) — **Lab Sample ID: 280-39983-21**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:37	1

Client Sample ID: SPKN14(1-2)D — **Lab Sample ID: 280-39983-22**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.14	J	0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:49	1

Client Sample ID: SPKN15(1-2) — **Lab Sample ID: 280-39983-23**
Date Collected: 03/12/13 09:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.39	J	0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:56	1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SPKN18(1-2) — **Lab Sample ID: 280-39983-30**
Date Collected: 03/11/13 13:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:51	1

Client Sample ID: SPKN19(1-2) — **Lab Sample ID: 280-39983-31**
Date Collected: 03/11/13 11:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.4		0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:54	1

Client Sample ID: SPKN21(1-2) — **Lab Sample ID: 280-39983-33**
Date Collected: 03/11/13 10:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11	J	0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:58	1

Client Sample ID: SPKN23(1-2) — **Lab Sample ID: 280-39983-35**
Date Collected: 03/12/13 15:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 07:01	1

Client Sample ID: SPKN24(1-2) — **Lab Sample ID: 280-39983-37**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.092	J	0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:56	1

Client Sample ID: SPKN25(1-2) — **Lab Sample ID: 280-39983-40**
Date Collected: 03/12/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.90		0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:59	1

Client Sample ID: SPKN26(1-2) — **Lab Sample ID: 280-39983-43**
Date Collected: 03/11/13 14:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.37	J	0.50	0.013	mg/L		04/17/13 11:00	04/18/13 07:13	1

Client Sample ID: SPKN27(1-2) — **Lab Sample ID: 280-39983-45**
Date Collected: 03/11/13 13:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 07:15	1

Client Sample ID: SPKN28(1-2) — **Lab Sample ID: 280-39983-46**
Date Collected: 03/11/13 12:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 07:17	1

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SPKN30(1-2)
Date Collected: 03/11/13 10:05
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39983-48
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.083	J	0.50	0.013	mg/L		04/17/13 11:00	04/18/13 07:20	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Metals

Leach Batch: 168893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-4	SPKN4(1-2)	TCLP	Solid	1311	
280-39983-18	SPKN11(1-2)	TCLP	Solid	1311	
280-39983-21	SPKN14(1-2)	TCLP	Solid	1311	
280-39983-22	SPKN14(1-2)D	TCLP	Solid	1311	
280-39983-30	SPKN18(1-2)	TCLP	Solid	1311	
280-39983-31	SPKN19(1-2)	TCLP	Solid	1311	
280-39983-37	SPKN24(1-2)	TCLP	Solid	1311	
280-39983-40	SPKN25(1-2)	TCLP	Solid	1311	
280-39983-40 MS	SPKN25(1-2)	TCLP	Solid	1311	
280-39983-40 MSD	SPKN25(1-2)	TCLP	Solid	1311	
LB 280-168893/1-B LB	Method Blank	TCLP	Solid	1311	
LCS 280-168893/2-B	Lab Control Sample	TCLP	Solid	1311	

Leach Batch: 168894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-1	SPKN1(1-2)	TCLP	Solid	1311	
280-39983-2	SPKN2(1-2)	TCLP	Solid	1311	
280-39983-3	SPKN3(1-2)	TCLP	Solid	1311	
280-39983-8	SPKN5(1-2)	TCLP	Solid	1311	
280-39983-23	SPKN15(1-2)	TCLP	Solid	1311	
280-39983-33	SPKN21(1-2)	TCLP	Solid	1311	
280-39983-35	SPKN23(1-2)	TCLP	Solid	1311	
280-39983-43	SPKN26(1-2)	TCLP	Solid	1311	
280-39983-45	SPKN27(1-2)	TCLP	Solid	1311	
280-39983-46	SPKN28(1-2)	TCLP	Solid	1311	
280-39983-48	SPKN30(1-2)	TCLP	Solid	1311	
280-39983-48 MS	SPKN30(1-2)	TCLP	Solid	1311	
280-39983-48 MSD	SPKN30(1-2)	TCLP	Solid	1311	
LB2 280-168894/1-C LB2	Method Blank	TCLP	Solid	1311	
LCS 280-168894/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 169046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-4	SPKN4(1-2)	TCLP	Solid	3010A	168893
280-39983-18	SPKN11(1-2)	TCLP	Solid	3010A	168893
280-39983-21	SPKN14(1-2)	TCLP	Solid	3010A	168893
280-39983-22	SPKN14(1-2)D	TCLP	Solid	3010A	168893
280-39983-30	SPKN18(1-2)	TCLP	Solid	3010A	168893
280-39983-31	SPKN19(1-2)	TCLP	Solid	3010A	168893
280-39983-37	SPKN24(1-2)	TCLP	Solid	3010A	168893
280-39983-40	SPKN25(1-2)	TCLP	Solid	3010A	168893
280-39983-40 MS	SPKN25(1-2)	TCLP	Solid	3010A	168893
280-39983-40 MSD	SPKN25(1-2)	TCLP	Solid	3010A	168893
LB 280-168893/1-B LB	Method Blank	TCLP	Solid	3010A	168893
LCS 280-168893/2-B	Lab Control Sample	TCLP	Solid	3010A	168893

Analysis Batch: 169347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-4	SPKN4(1-2)	TCLP	Solid	6010B	169046
280-39983-18	SPKN11(1-2)	TCLP	Solid	6010B	169046
280-39983-21	SPKN14(1-2)	TCLP	Solid	6010B	169046

Metals (Continued)

Analysis Batch: 169347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-22	SPKN14(1-2)D	TCLP	Solid	6010B	169046
280-39983-30	SPKN18(1-2)	TCLP	Solid	6010B	169046
280-39983-31	SPKN19(1-2)	TCLP	Solid	6010B	169046
280-39983-37	SPKN24(1-2)	TCLP	Solid	6010B	169046
280-39983-40	SPKN25(1-2)	TCLP	Solid	6010B	169046
280-39983-40 MS	SPKN25(1-2)	TCLP	Solid	6010B	169046
280-39983-40 MSD	SPKN25(1-2)	TCLP	Solid	6010B	169046
LB 280-168893/1-B LB	Method Blank	TCLP	Solid	6010B	169046
LCS 280-168893/2-B	Lab Control Sample	TCLP	Solid	6010B	169046

Prep Batch: 169820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-1	SPKN1(1-2)	TCLP	Solid	3010A	168894
280-39983-2	SPKN2(1-2)	TCLP	Solid	3010A	168894
280-39983-3	SPKN3(1-2)	TCLP	Solid	3010A	168894
280-39983-8	SPKN5(1-2)	TCLP	Solid	3010A	168894
280-39983-23	SPKN15(1-2)	TCLP	Solid	3010A	168894
280-39983-33	SPKN21(1-2)	TCLP	Solid	3010A	168894
280-39983-35	SPKN23(1-2)	TCLP	Solid	3010A	168894
280-39983-43	SPKN26(1-2)	TCLP	Solid	3010A	168894
280-39983-45	SPKN27(1-2)	TCLP	Solid	3010A	168894
280-39983-46	SPKN28(1-2)	TCLP	Solid	3010A	168894
280-39983-48	SPKN30(1-2)	TCLP	Solid	3010A	168894
280-39983-48 MS	SPKN30(1-2)	TCLP	Solid	3010A	168894
280-39983-48 MSD	SPKN30(1-2)	TCLP	Solid	3010A	168894
LB2 280-168894/1-C LB2	Method Blank	TCLP	Solid	3010A	168894
LCS 280-168894/2-C	Lab Control Sample	TCLP	Solid	3010A	168894

Analysis Batch: 170095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-1	SPKN1(1-2)	TCLP	Solid	6010B	169820
280-39983-2	SPKN2(1-2)	TCLP	Solid	6010B	169820
280-39983-3	SPKN3(1-2)	TCLP	Solid	6010B	169820
280-39983-8	SPKN5(1-2)	TCLP	Solid	6010B	169820
280-39983-23	SPKN15(1-2)	TCLP	Solid	6010B	169820
280-39983-33	SPKN21(1-2)	TCLP	Solid	6010B	169820
280-39983-35	SPKN23(1-2)	TCLP	Solid	6010B	169820
280-39983-43	SPKN26(1-2)	TCLP	Solid	6010B	169820
280-39983-45	SPKN27(1-2)	TCLP	Solid	6010B	169820
280-39983-46	SPKN28(1-2)	TCLP	Solid	6010B	169820
280-39983-48	SPKN30(1-2)	TCLP	Solid	6010B	169820
280-39983-48 MS	SPKN30(1-2)	TCLP	Solid	6010B	169820
280-39983-48 MSD	SPKN30(1-2)	TCLP	Solid	6010B	169820
LB2 280-168894/1-C LB2	Method Blank	TCLP	Solid	6010B	169820
LCS 280-168894/2-C	Lab Control Sample	TCLP	Solid	6010B	169820

QC Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 280-168893/1-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 169347 — **Prep Batch: 169046**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.013	mg/L		04/12/13 08:00	04/12/13 16:22	1

Lab Sample ID: LCS 280-168893/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 169347 — **Prep Batch: 169046**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.50	5.10		mg/L		93	80 - 120

Lab Sample ID: 280-39983-40 MS — **Client Sample ID: SPKN25(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 169347 — **Prep Batch: 169046**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.90		5.50	5.98		mg/L		92	80 - 120

Lab Sample ID: 280-39983-40 MSD — **Client Sample ID: SPKN25(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 169347 — **Prep Batch: 169046**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.90		5.50	6.02		mg/L		93	80 - 120	1	20

Lab Sample ID: LB2 280-168894/1-C LB2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 170095 — **Prep Batch: 169820**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.013	mg/L		04/17/13 11:00	04/18/13 06:41	1

Lab Sample ID: LCS 280-168894/2-C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 170095 — **Prep Batch: 169820**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.50	5.55		mg/L		101	80 - 120

Lab Sample ID: 280-39983-48 MS — **Client Sample ID: SPKN30(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 170095 — **Prep Batch: 169820**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.083	J	5.50	5.66		mg/L		101	80 - 120

Lab Sample ID: 280-39983-48 MSD — **Client Sample ID: SPKN30(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 170095 — **Prep Batch: 169820**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.083	J	5.50	5.33		mg/L		95	80 - 120	6	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN1(1-2)

Lab Sample ID: 280-39983-1
Date Collected: 03/12/13 13:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:46	HEB	TAL DEN

Client Sample ID: SPKN2(1-2)

Lab Sample ID: 280-39983-2
Date Collected: 03/12/13 13:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:49	HEB	TAL DEN

Client Sample ID: SPKN3(1-2)

Lab Sample ID: 280-39983-3
Date Collected: 03/12/13 11:40
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:51	HEB	TAL DEN

Client Sample ID: SPKN4(1-2)

Lab Sample ID: 280-39983-4
Date Collected: 03/12/13 08:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:32	JKH	TAL DEN

Client Sample ID: SPKN5(1-2)

Lab Sample ID: 280-39983-8
Date Collected: 03/11/13 15:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:53	HEB	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN11(1-2)

Lab Sample ID: 280-39983-18
Date Collected: 03/11/13 09:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:35	JKH	TAL DEN

Client Sample ID: SPKN14(1-2)

Lab Sample ID: 280-39983-21
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:37	JKH	TAL DEN

Client Sample ID: SPKN14(1-2)D

Lab Sample ID: 280-39983-22
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:49	JKH	TAL DEN

Client Sample ID: SPKN15(1-2)

Lab Sample ID: 280-39983-23
Date Collected: 03/12/13 09:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:56	HEB	TAL DEN

Client Sample ID: SPKN18(1-2)

Lab Sample ID: 280-39983-30
Date Collected: 03/11/13 13:20
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:51	JKH	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN19(1-2)

Lab Sample ID: 280-39983-31
Date Collected: 03/11/13 11:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:54	JKH	TAL DEN

Client Sample ID: SPKN21(1-2)

Lab Sample ID: 280-39983-33
Date Collected: 03/11/13 10:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 06:58	HEB	TAL DEN

Client Sample ID: SPKN23(1-2)

Lab Sample ID: 280-39983-35
Date Collected: 03/12/13 15:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 07:01	HEB	TAL DEN

Client Sample ID: SPKN24(1-2)

Lab Sample ID: 280-39983-37
Date Collected: 03/12/13 10:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:56	JKH	TAL DEN

Client Sample ID: SPKN25(1-2)

Lab Sample ID: 280-39983-40
Date Collected: 03/12/13 09:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168893	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169046	04/12/13 08:00	RC	TAL DEN
TCLP	Analysis	6010B		1			169347	04/12/13 16:59	JKH	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-2

Client Sample ID: SPKN26(1-2)

Lab Sample ID: 280-39983-43

Date Collected: 03/11/13 14:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 07:13	HEB	TAL DEN

Client Sample ID: SPKN27(1-2)

Lab Sample ID: 280-39983-45

Date Collected: 03/11/13 13:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 07:15	HEB	TAL DEN

Client Sample ID: SPKN28(1-2)

Lab Sample ID: 280-39983-46

Date Collected: 03/11/13 12:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 07:17	HEB	TAL DEN

Client Sample ID: SPKN30(1-2)

Lab Sample ID: 280-39983-48

Date Collected: 03/11/13 10:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	168894	04/10/13 17:28	JJW	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	169820	04/17/13 11:00	JA	TAL DEN
TCLP	Analysis	6010B		1			170095	04/18/13 07:20	HEB	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umyn	Date: 3/12/2013	Chain of Custody Number: 172732
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5520	Lab Number:	Page 1 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: D. Rydberg	
Project Name and Location (State): Spokeen Metal	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: WA-001925-0001-10ttO			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
SPKN1 (1-2)	2/12/2013	13:30				X	1						X				* Possible Asbestos
SPKN2 (1-2)	2/12/2013	13:05					1						X				in some soil
SPKN3 (1-2)	2/12/2013	11:40					3						X		X	X	samples collected
SPKN4 (1-2)	2/12/2013	08:45					1						X				on Spokeen Metal
SPKN4 (1-2) D	2/12/2013	08:45					1						X				property.
SPKN4 (4-6)	2/12/2013	08:35					2						X		X		
SPKN4 (8-10)	2/12/2013	08:35					2						X		X		
SPKN5 (1-2)	2/11/2013	15:45					1						X				
SPKN5 (4-6)	2/11/2013	15:45					2						X		X		
SPKN5 (8-10)	2/11/2013	15:45					2						X		X		
SPKN6 (1-2)	2/11/2013	15:00					2						X	X			
SPKN7 (1-2)	2/11/2013	13:10					2						X	X			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3.14.13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umyn	Date: 3/12/2013	Chain of Custody Number: 172734
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 2 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: D. Rydberg	
Project Name and Location (State): Speken Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1010			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
SPKN8(1-2)	2/11/2013	11:15				X	4						X	X	X	X	
SPKN8(1-2)D	2/11/2013	11:15					4						X	X	X	X	
SPKN9(1-2)	2/11/2013	09:50					1						X				
SPKN10(1-2)	2/11/2013	09:35					2						X	X			
SPKN10(1-2)D	2/11/2013	09:35					1						X				
SPKN11(1-2)	2/11/2013	09:30					1						X				
SPKN12(1-2)	2/12/2013	13:55					1						X				
SPKN13(1-2)	2/12/2013	14:15					2						X	X			
SPKN14(1-2)	2/12/2013	10:50					1						X				
SPKN14(1-2)D	2/12/2013	10:50					1						X				
SPKN15(1-2)	2/12/2013	09:10					1						X				
SPKN15(4-6)	2/12/2013	09:15					3						X	X	X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

1. Relinquished By	Date 3/14/13	Time 1620	1. Received By	Date 3/14/13	Time 1620
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172735
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 3 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: D. Rydberg	
Project Name and Location (State): WA-001925-0001-1040	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: Spokane Metal			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
~~Spkn~~ SPKN 15 (8-10)	2/12/2013	09:15				X	2						X		X		
SPKN 16 (1-2)	2/12/2013	16:05				↓	2						X	X			
SPKN 16 (4-6)	2/12/2013	16:00				↓	2						X		X		
SPKN 16 (8-10)	2/12/2013	16:00				↓	2						X		X		
SPKN 17 (1-2)	2/11/2013	15:15				↓	1						X				
SPKN 18 (1-2)	2/11/2013	13:20				↓	1						X				
SPKN 19 (1-2)	2/11/2013	11:45				↓	1						X				
SPKN 20 (1-2)	2/11/2013	10:45				↓	2						X	X			
SPKN 21 (1-2)	2/11/2013	10:00				↓	1						X				
SPKN 22 (1-2)	2/12/2013	17:10				↓	4						X	X	X	X	
SPKN 23 (1-2)	2/12/2013	15:30				↓	1						X				
SPKN 23 (8-9)	2/12/2013	15:40				↓	1						X				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

1. Relinquished By	Date: 3/14/13	Time: 1620	1. Received By	Date: 3/14/13	Time: 1620
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172728
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 4 of 4
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: B. Rydberg	
Project Name and Location (State): Speken Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-10tto			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	Metals	TCLP Lead	PCBs	PAHs									Special Instructions/ Conditions of Receipt
SPKN24 (1-2)	2/12/2013	10:05				X		1							X												
SPKN24 (4-6)	2/12/2013	10:05				X		2							X		X										
SPKN24 (8-10)	2/12/2013	10:05				X		2							X		X										
SPKN25 (1-2)	2/12/2013	09:30				X		1							X												
SPKN25 (4-6)	2/12/2013	09:35				X		2							X		X										
SPKN25 (8-10)	2/12/2013	09:35				X		2							X		X										
SPKN26 (1-2)	2/11/2013	14:35				X		1							X												
SPKN26 (7-8)	2/11/2013	14:15				X		1							X												
SPKN27 (1-2)	2/11/2013	13:45				X		1							X												
SPKN28 (1-2)	2/11/2013	12:05				X		1							X												
SPKN29 (1-2)	2/11/2013	10:20				X		2							X	X											
SPKN30 (1-2)	2/11/2013	10:05				X		1							X												

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ 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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172729
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 5 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: D. Rydberg	
Project Name and Location (State): Spokane Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1080			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): Metals	TCLP Lead	PCBs	PAHs									Special Instructions/ Conditions of Receipt
SPKN31 (1-2)	3/11/2013	10:25				X		1							X												

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-39983-2

Login Number: 39983

List Source: TestAmerica Denver

List Number: 1

Creator: Laspe, Laura

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").	N/A	
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: 280-39983-1
Client Project/Site: Speker Metal

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/22/2013 12:22:34 PM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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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Qualifiers

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.
X	Surrogate is outside control limits

GC 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.
X	Surrogate is outside control limits
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.
F	MS or MSD exceeds the control limits
B	Compound was found in the blank and sample.
F	RPD of the MS and 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.

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-39983-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Speker Metal

Report Number: 280-39983-1

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 March 14, 2013. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.0º C and 4.4º C.

The collection dates on the chain of custody are listed as being collected in February. The collection dates were not recorded on the container labels; the laboratory did not have a secondary collection date to confirm that the samples are received within the extraction holding time. Per the client on March 18, 2013 the samples were collected in March.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Nitrobenzene-d5 failed the surrogate recovery criteria high for SPKN3(1-2) (280-39983-3) and SPKN22(1-2) (280-39983-34). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis were not performed.

Sample SPKN3(1-2) (280-39983-3)[4X] required dilution prior to analysis due to matrix interference. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SIM analyses.

POLYCHLORINATED BIPHENYLS (PCBS)

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for SPKN3(1-2) (280-39983-3, SPKN22(1-2) (280-39983-34) and SPKN24(4-6) (280-39983-38) There is chromatographic evidence of matrix interference and the surrogate TCX was in control indicating a successful extraction; re-extractions have been reported.

The following samples appear to contain polychlorinated biphenyls (PCBs); SPKN3(1-2) (280-39983-3), SPKN4(4-6) (280-39983-6), SPKN8(1-2)D (280-39983-14) and SPKN22(1-2) (280-39983-34). However, due to a mixture of Aroclors with shared peaks, weathering and/or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration. The sample have been quantified and reported as Aroclor-1248, Aroclor-1254 and/or Aroclor-1260.

The MS associated with batch 280-165908, performed on sample SPKN22(1-2) (280-39983-34) exhibited spike recoveries outside QC control limits for PCB 1260 and Decachlorobiphenyl (surr); matrix interference is present in the chromatograms. 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 PCBs analyses.

TCLP METALS

Job ID: 280-39983-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

No difficulties were encountered during the TCLP metals analyses.

TOTAL METALS

Sample SPKN28(1-2) (280-39983-46)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The MS associated with batch 280-165909 exhibited spike recoveries outside QC control limits for Lead. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required

Barium and Chromium were detected in method blank MB 280-165155/1-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.

The MS/MSD and RPD data associated with batch 280-165670, performed on sample SPKN5(1-2) (280-39983-8) exhibited spike recoveries outside QC control limits for several analytes. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required

Barium and Chromium were detected in method blank MB 280-165157/1-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.

The RPD data associated with batch 280-165670, performed on sample SPKN16(8-10) (280-39983-28) exhibited spike recoveries outside QC control limits for Lead. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required

Barium was detected in method blank MB 280-165158/1-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.

The MS/MSD associated with batch 280-165670, performed on sample SPKN30(1-2) (280-39983-48) exhibited spike recoveries outside QC control limits for Barium. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. The associated LCS was in control and demonstrates that operating procedures were in control. No further action was required.

Samples SPKN19(1-2) (280-39983-31)[5X], SPKN21(1-2) (280-39983-33)[5X], SPKN27(1-2) (280-39983-45)[5X] and SPKN28(1-2) (280-39983-46)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The MS/MSD associated with batch 280-165749, performed on sample SPKN14(1-2) (280-39983-21) exhibited spike recoveries outside QC control limits for Mercury. 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.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN1(1-2) — Lab Sample ID: 280-39983-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	190		0.94	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	2.4		0.47	0.039	mg/Kg	1		6010B	Total/NA
Chromium	16		1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	220		0.75	0.25	mg/Kg	1		6010B	Total/NA
Silver	0.48	J	0.94	0.15	mg/Kg	1		6010B	Total/NA
Mercury	160		16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN2(1-2) — Lab Sample ID: 280-39983-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		1.9	0.64	mg/Kg	1		6010B	Total/NA
Barium	180		0.97	0.074	mg/Kg	1		6010B	Total/NA
Cadmium	1.9		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	14		1.5	0.056	mg/Kg	1		6010B	Total/NA
Lead	150		0.78	0.26	mg/Kg	1		6010B	Total/NA
Silver	0.29	J	0.97	0.16	mg/Kg	1		6010B	Total/NA
Mercury	150		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN3(1-2) — Lab Sample ID: 280-39983-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	22000		5000	160	ng/Kg	1		8270C SIM	Total/NA
Acenaphthylene	17000		5000	170	ng/Kg	1		8270C SIM	Total/NA
Anthracene	55000		5000	720	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	130000		5000	890	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	98000		5000	740	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	70000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	59000		5000	990	ng/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	20000		5000	1300	ng/Kg	1		8270C SIM	Total/NA
Fluorene	18000		5000	470	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	76000		5000	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	60000		5000	260	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	56000		5000	310	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	41000		5000	320	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene - DL	180000		20000	4800	ng/Kg	4		8270C SIM	Total/NA
Chrysene - DL	170000		20000	4000	ng/Kg	4		8270C SIM	Total/NA
Fluoranthene - DL	300000		20000	4000	ng/Kg	4		8270C SIM	Total/NA
Phenanthrene - DL	290000		20000	4400	ng/Kg	4		8270C SIM	Total/NA
Pyrene - DL	250000		20000	4400	ng/Kg	4		8270C SIM	Total/NA
PCB-1254	37		33	5.5	ug/Kg	1		8082	Total/NA
Polychlorinated biphenyls, Total	37		33	2.6	ug/Kg	1		8082	Total/NA
Arsenic	28		1.7	0.56	mg/Kg	1		6010B	Total/NA
Barium	580		0.85	0.064	mg/Kg	1		6010B	Total/NA
Cadmium	4.4		0.42	0.035	mg/Kg	1		6010B	Total/NA
Chromium	12		1.3	0.049	mg/Kg	1		6010B	Total/NA
Lead	420		0.68	0.23	mg/Kg	1		6010B	Total/NA
Silver	1.5		0.85	0.14	mg/Kg	1		6010B	Total/NA
Mercury	220		16	5.1	ug/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN4(1-2) — Lab Sample ID: 280-39983-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		2.0	0.65	mg/Kg	1		6010B	Total/NA
Barium	380		0.99	0.075	mg/Kg	1		6010B	Total/NA
Cadmium	2.8		0.50	0.041	mg/Kg	1		6010B	Total/NA
Chromium	14		1.5	0.057	mg/Kg	1		6010B	Total/NA
Lead	350		0.79	0.27	mg/Kg	1		6010B	Total/NA
Selenium	1.3		1.3	0.85	mg/Kg	1		6010B	Total/NA
Silver	0.55	J	0.99	0.16	mg/Kg	1		6010B	Total/NA
Mercury	110		19	6.3	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN4(1-2)D — Lab Sample ID: 280-39983-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.9	0.64	mg/Kg	1		6010B	Total/NA
Barium	870		0.97	0.074	mg/Kg	1		6010B	Total/NA
Cadmium	2.4		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	14		1.5	0.056	mg/Kg	1		6010B	Total/NA
Lead	220		0.78	0.26	mg/Kg	1		6010B	Total/NA
Silver	0.57	J	0.97	0.16	mg/Kg	1		6010B	Total/NA
Mercury	83		19	6.3	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN4(4-6) — Lab Sample ID: 280-39983-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	64		33	5.6	ug/Kg	1		8082	Total/NA
Polychlorinated biphenyls, Total	64		33	2.7	ug/Kg	1		8082	Total/NA
Arsenic	4.2		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	170		0.94	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.44	J	0.47	0.039	mg/Kg	1		6010B	Total/NA
Chromium	16		1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	13		0.75	0.25	mg/Kg	1		6010B	Total/NA
Mercury	110		17	5.5	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN4(8-10) — Lab Sample ID: 280-39983-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.8		1.8	0.61	mg/Kg	1		6010B	Total/NA
Barium	57		0.92	0.070	mg/Kg	1		6010B	Total/NA
Cadmium	0.080	J	0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	19		1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	5.1		0.73	0.25	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN5(1-2) — Lab Sample ID: 280-39983-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		2.0	0.65	mg/Kg	1		6010B	Total/NA
Barium	360	B	0.98	0.075	mg/Kg	1		6010B	Total/NA
Cadmium	2.7		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	23	B	1.5	0.057	mg/Kg	1		6010B	Total/NA
Lead	320		0.78	0.26	mg/Kg	1		6010B	Total/NA
Selenium	1.5		1.3	0.84	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN5(1-2) (Continued) — Lab Sample ID: 280-39983-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.73	J	0.98	0.16	mg/Kg	1		6010B	Total/NA
Mercury	80		17	5.5	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN5(4-6) — Lab Sample ID: 280-39983-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	110	B	0.94	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.24	J	0.47	0.039	mg/Kg	1		6010B	Total/NA
Chromium	9.7	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	8.1		0.75	0.25	mg/Kg	1		6010B	Total/NA
Mercury	15		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN5(8-10) — Lab Sample ID: 280-39983-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	72	B	0.95	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.066	J	0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	6.1	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	5.6		0.76	0.26	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN6(1-2) — Lab Sample ID: 280-39983-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	130	B	0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	0.98		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	11	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	88		0.73	0.25	mg/Kg	1		6010B	Total/NA
Lead	0.079	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	24		15	4.9	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN7(1-2) — Lab Sample ID: 280-39983-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		1.7	0.56	mg/Kg	1		6010B	Total/NA
Barium	110	B	0.85	0.064	mg/Kg	1		6010B	Total/NA
Cadmium	0.51		0.42	0.035	mg/Kg	1		6010B	Total/NA
Chromium	8.8	B	1.3	0.049	mg/Kg	1		6010B	Total/NA
Lead	30		0.68	0.23	mg/Kg	1		6010B	Total/NA
Lead	0.063	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	10	J	16	5.3	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN8(1-2) — Lab Sample ID: 280-39983-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1400	J	4900	160	ng/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2800	J	4900	170	ng/Kg	1		8270C SIM	Total/NA
Anthracene	3200	J	4900	700	ng/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN8(1-2) (Continued) — Lab Sample ID: 280-39983-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7100		4900	880	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6000		4900	720	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	13000		4900	1200	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9500		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3200	J	4900	970	ng/Kg	1		8270C SIM	Total/NA
Chrysene	14000		4900	970	ng/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	1700	J	4900	1300	ng/Kg	1		8270C SIM	Total/NA
Fluoranthene	18000		4900	970	ng/Kg	1		8270C SIM	Total/NA
Fluorene	860	J	4900	460	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4800	J	4900	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	5200		4900	250	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	5900		4900	300	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	7400		4900	320	ng/Kg	1		8270C SIM	Total/NA
Phenanthrene	15000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Pyrene	15000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Arsenic	5.3		1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	290	B	0.96	0.073	mg/Kg	1		6010B	Total/NA
Cadmium	1.5		0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	13	B	1.4	0.056	mg/Kg	1		6010B	Total/NA
Lead	160		0.77	0.26	mg/Kg	1		6010B	Total/NA
Silver	0.15	J	0.96	0.15	mg/Kg	1		6010B	Total/NA
Lead	0.014	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	27		16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN8(1-2)D — Lab Sample ID: 280-39983-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	2700	J	4900	160	ng/Kg	1		8270C SIM	Total/NA
Acenaphthylene	22000		4900	170	ng/Kg	1		8270C SIM	Total/NA
Anthracene	6400		4900	710	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8500		4900	890	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4900		4900	730	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	15000		4900	1200	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3700	J	4900	990	ng/Kg	1		8270C SIM	Total/NA
Chrysene	17000		4900	990	ng/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	1700	J	4900	1300	ng/Kg	1		8270C SIM	Total/NA
Fluoranthene	28000		4900	990	ng/Kg	1		8270C SIM	Total/NA
Fluorene	4200	J	4900	460	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5400		4900	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	12000		4900	260	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	13000		4900	300	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	51000		4900	320	ng/Kg	1		8270C SIM	Total/NA
Phenanthrene	25000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Pyrene	23000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
PCB-1254	6.2	J	32	5.3	ug/Kg	1		8082	Total/NA
Polychlorinated biphenyls, Total	6.2	J	32	2.5	ug/Kg	1		8082	Total/NA
Arsenic	8.9		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	890	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	2.1		0.44	0.036	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SPKN8(1-2)D (Continued) — Lab Sample ID: 280-39983-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	410		0.71	0.24	mg/Kg	1		6010B	Total/NA
Silver	0.86	J	0.88	0.14	mg/Kg	1		6010B	Total/NA
Lead	0.013	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	46		15	4.9	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN9(1-2) — Lab Sample ID: 280-39983-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		2.0	0.66	mg/Kg	1		6010B	Total/NA
Barium	1200	B	1.0	0.076	mg/Kg	1		6010B	Total/NA
Cadmium	1.7		0.50	0.041	mg/Kg	1		6010B	Total/NA
Chromium	9.3	B	1.5	0.058	mg/Kg	1		6010B	Total/NA
Lead	85		0.80	0.27	mg/Kg	1		6010B	Total/NA
Selenium	1.1	J	1.3	0.86	mg/Kg	1		6010B	Total/NA
Mercury	53		18	5.9	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN10(1-2) — Lab Sample ID: 280-39983-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	210	B	0.89	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	3.8		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	12	B	1.3	0.052	mg/Kg	1		6010B	Total/NA
Lead	1200		0.71	0.24	mg/Kg	1		6010B	Total/NA
Lead	0.67		0.50	0.013	mg/L	1		6010B	TCLP
Mercury	95		18	5.7	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN10(1-2)D — Lab Sample ID: 280-39983-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	230	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	4.5		0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	8.8	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	840		0.71	0.24	mg/Kg	1		6010B	Total/NA
Mercury	87		18	5.7	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN11(1-2) — Lab Sample ID: 280-39983-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	210	B	0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	4.4		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	16	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	2500		0.73	0.25	mg/Kg	1		6010B	Total/NA
Silver	1.0		0.91	0.15	mg/Kg	1		6010B	Total/NA
Mercury	240		16	5.4	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN12(1-2) — Lab Sample ID: 280-39983-19

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN12(1-2) (Continued) — Lab Sample ID: 280-39983-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		1.9	0.64	mg/Kg	1		6010B	Total/NA
Barium	170	B	0.97	0.074	mg/Kg	1		6010B	Total/NA
Cadmium	1.2		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	13	B	1.5	0.056	mg/Kg	1		6010B	Total/NA
Lead	80		0.78	0.26	mg/Kg	1		6010B	Total/NA
Mercury	310		19	6.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN13(1-2) — Lab Sample ID: 280-39983-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	110	B	0.90	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	1.4		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	11	B	1.4	0.052	mg/Kg	1		6010B	Total/NA
Lead	54		0.72	0.24	mg/Kg	1		6010B	Total/NA
Lead	0.041	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	74		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN14(1-2) — Lab Sample ID: 280-39983-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.9	0.64	mg/Kg	1		6010B	Total/NA
Barium	170	B	0.97	0.074	mg/Kg	1		6010B	Total/NA
Cadmium	3.9		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	11	B	1.5	0.056	mg/Kg	1		6010B	Total/NA
Lead	310		0.78	0.26	mg/Kg	1		6010B	Total/NA
Silver	0.91	J	0.97	0.16	mg/Kg	1		6010B	Total/NA
Mercury	100		16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN14(1-2)D — Lab Sample ID: 280-39983-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	190	B	0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	2.7		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	13	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	320		0.73	0.25	mg/Kg	1		6010B	Total/NA
Silver	0.63	J	0.91	0.15	mg/Kg	1		6010B	Total/NA
Mercury	210		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN15(1-2) — Lab Sample ID: 280-39983-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		1.8	0.61	mg/Kg	1		6010B	Total/NA
Barium	190	B	0.92	0.070	mg/Kg	1		6010B	Total/NA
Cadmium	1.7		0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	16	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	220		0.73	0.25	mg/Kg	1		6010B	Total/NA
Silver	0.25	J	0.92	0.15	mg/Kg	1		6010B	Total/NA
Mercury	70		17	5.4	ug/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN15(4-6) — Lab Sample ID: 280-39983-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.4		2.0	0.65	mg/Kg	1		6010B	Total/NA
Barium	94	B	0.99	0.075	mg/Kg	1		6010B	Total/NA
Cadmium	0.42	J	0.50	0.041	mg/Kg	1		6010B	Total/NA
Chromium	9.5	B	1.5	0.057	mg/Kg	1		6010B	Total/NA
Lead	22		0.79	0.27	mg/Kg	1		6010B	Total/NA
Lead	0.35	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	24		17	5.5	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN15(8-10) — Lab Sample ID: 280-39983-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.2	J	1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	45	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	5.0	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	9.6		0.70	0.24	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN16(1-2) — Lab Sample ID: 280-39983-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.8	0.61	mg/Kg	1		6010B	Total/NA
Barium	170	B	0.92	0.070	mg/Kg	1		6010B	Total/NA
Cadmium	1.7		0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	16	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	270		0.73	0.25	mg/Kg	1		6010B	Total/NA
Silver	0.47	J	0.92	0.15	mg/Kg	1		6010B	Total/NA
Lead	2.6		0.50	0.013	mg/L	1		6010B	TCLP
Mercury	57		16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN16(4-6) — Lab Sample ID: 280-39983-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	65	B	0.93	0.071	mg/Kg	1		6010B	Total/NA
Cadmium	0.33	J	0.47	0.038	mg/Kg	1		6010B	Total/NA
Chromium	4.8	B	1.4	0.054	mg/Kg	1		6010B	Total/NA
Lead	14		0.75	0.25	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN16(8-10) — Lab Sample ID: 280-39983-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	88	B	0.95	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.72		0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	8.2	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	32		0.76	0.26	mg/Kg	1		6010B	Total/NA
Mercury	9.9	J	15	4.8	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN17(1-2) — Lab Sample ID: 280-39983-29

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN17(1-2) (Continued) — Lab Sample ID: 280-39983-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		1.9	0.64	mg/Kg	1		6010B	Total/NA
Barium	110	B	0.97	0.074	mg/Kg	1		6010B	Total/NA
Cadmium	0.71		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	16	B	1.5	0.056	mg/Kg	1		6010B	Total/NA
Lead	72		0.78	0.26	mg/Kg	1		6010B	Total/NA
Mercury	64		18	5.9	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN18(1-2) — Lab Sample ID: 280-39983-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		1.7	0.56	mg/Kg	1		6010B	Total/NA
Barium	240	B	0.85	0.065	mg/Kg	1		6010B	Total/NA
Cadmium	4.6		0.43	0.035	mg/Kg	1		6010B	Total/NA
Chromium	62	B	1.3	0.050	mg/Kg	1		6010B	Total/NA
Lead	910		0.68	0.23	mg/Kg	1		6010B	Total/NA
Selenium	0.78	J	1.1	0.74	mg/Kg	1		6010B	Total/NA
Silver	1.9		0.85	0.14	mg/Kg	1		6010B	Total/NA
Mercury	250		15	4.7	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN19(1-2) — Lab Sample ID: 280-39983-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.8		2.0	0.66	mg/Kg	1		6010B	Total/NA
Barium	330	B	1.0	0.076	mg/Kg	1		6010B	Total/NA
Cadmium	7.8		0.50	0.041	mg/Kg	1		6010B	Total/NA
Chromium	56	B	1.5	0.058	mg/Kg	1		6010B	Total/NA
Lead	1600		0.80	0.27	mg/Kg	1		6010B	Total/NA
Selenium	1.2	J	1.3	0.86	mg/Kg	1		6010B	Total/NA
Silver	1.3		1.0	0.16	mg/Kg	1		6010B	Total/NA
Mercury	1500		88	29	ug/Kg	5		7471A	Total/NA

Client Sample ID: SPKN20(1-2) — Lab Sample ID: 280-39983-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	260	B	0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	0.92		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	150	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	140		0.73	0.25	mg/Kg	1		6010B	Total/NA
Selenium	1.3		1.2	0.78	mg/Kg	1		6010B	Total/NA
Silver	0.48	J	0.91	0.15	mg/Kg	1		6010B	Total/NA
Lead	0.050	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	240		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN21(1-2) — Lab Sample ID: 280-39983-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		1.7	0.57	mg/Kg	1		6010B	Total/NA
Barium	150	B	0.86	0.066	mg/Kg	1		6010B	Total/NA
Cadmium	4.5		0.43	0.035	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SPKN21(1-2) (Continued) — Lab Sample ID: 280-39983-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	170	B	1.3	0.050	mg/Kg	1		6010B	Total/NA
Lead	720		0.69	0.23	mg/Kg	1		6010B	Total/NA
Selenium	0.80	J	1.1	0.74	mg/Kg	1		6010B	Total/NA
Silver	1.7		0.86	0.14	mg/Kg	1		6010B	Total/NA
Mercury	1300		89	29	ug/Kg	5		7471A	Total/NA

Client Sample ID: SPKN22(1-2) — Lab Sample ID: 280-39983-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3900	J	4900	160	ng/Kg	1		8270C SIM	Total/NA
Acenaphthylene	45000		4900	170	ng/Kg	1		8270C SIM	Total/NA
Anthracene	23000		4900	700	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	20000		4900	880	ng/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	9300		4900	720	ng/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36000		4900	1200	ng/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8100		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7200		4900	970	ng/Kg	1		8270C SIM	Total/NA
Chrysene	35000		4900	970	ng/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	2500	J	4900	1300	ng/Kg	1		8270C SIM	Total/NA
Fluoranthene	72000		4900	970	ng/Kg	1		8270C SIM	Total/NA
Fluorene	12000		4900	460	ng/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
1-Methylnaphthalene	78000		4900	250	ng/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	69000		4900	300	ng/Kg	1		8270C SIM	Total/NA
Naphthalene	110000		4900	320	ng/Kg	1		8270C SIM	Total/NA
Phenanthrene	85000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
Pyrene	57000		4900	1100	ng/Kg	1		8270C SIM	Total/NA
PCB-1254	33		33	5.4	ug/Kg	1		8082	Total/NA
PCB-1260	11	J	33	2.6	ug/Kg	1		8082	Total/NA
Polychlorinated biphenyls, Total	44		33	2.6	ug/Kg	1		8082	Total/NA
Arsenic	8.0		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	430	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	1.6		0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	24	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	380		0.70	0.24	mg/Kg	1		6010B	Total/NA
Silver	0.37	J	0.88	0.14	mg/Kg	1		6010B	Total/NA
Lead	0.047	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	98		18	5.7	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN23(1-2) — Lab Sample ID: 280-39983-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	300	B	0.94	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	1.8		0.47	0.039	mg/Kg	1		6010B	Total/NA
Chromium	14	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	340		0.75	0.25	mg/Kg	1		6010B	Total/NA
Silver	0.32	J	0.94	0.15	mg/Kg	1		6010B	Total/NA
Mercury	160		17	5.6	ug/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN23(8-9) — Lab Sample ID: 280-39983-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	76	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	0.19	J	0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	3.6	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	34		0.70	0.24	mg/Kg	1		6010B	Total/NA
Selenium	3.9		1.1	0.75	mg/Kg	1		6010B	Total/NA
Mercury	10	J	16	5.4	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN24(1-2) — Lab Sample ID: 280-39983-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	130	B	0.90	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	0.78		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	18	B	1.4	0.052	mg/Kg	1		6010B	Total/NA
Lead	140		0.72	0.24	mg/Kg	1		6010B	Total/NA
Mercury	29		17	5.4	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN24(4-6) — Lab Sample ID: 280-39983-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	110	B	0.95	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.14	J	0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	14	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	11		0.76	0.26	mg/Kg	1		6010B	Total/NA
Mercury	13	J	16	5.1	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN24(8-10) — Lab Sample ID: 280-39983-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9		1.8	0.61	mg/Kg	1		6010B	Total/NA
Barium	91	B	0.92	0.070	mg/Kg	1		6010B	Total/NA
Cadmium	0.064	J	0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	18	B	1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	9.9		0.73	0.25	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN25(1-2) — Lab Sample ID: 280-39983-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		2.0	0.65	mg/Kg	1		6010B	Total/NA
Barium	360	B	0.98	0.075	mg/Kg	1		6010B	Total/NA
Cadmium	4.3		0.49	0.040	mg/Kg	1		6010B	Total/NA
Chromium	40	B	1.5	0.057	mg/Kg	1		6010B	Total/NA
Lead	890		0.78	0.26	mg/Kg	1		6010B	Total/NA
Selenium	1.1	J	1.3	0.84	mg/Kg	1		6010B	Total/NA
Silver	3.2		0.98	0.16	mg/Kg	1		6010B	Total/NA
Mercury	370		16	5.2	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN25(4-6) — Lab Sample ID: 280-39983-41

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN25(4-6) (Continued) — Lab Sample ID: 280-39983-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	76	B	0.95	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	0.24	J	0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	8.9	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	11		0.76	0.26	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN25(8-10) — Lab Sample ID: 280-39983-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.63	J	1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	21	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Chromium	150	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	5.1		0.70	0.24	mg/Kg	1		6010B	Total/NA

Client Sample ID: SPKN26(1-2) — Lab Sample ID: 280-39983-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.9	0.61	mg/Kg	1		6010B	Total/NA
Barium	250	B	0.93	0.070	mg/Kg	1		6010B	Total/NA
Cadmium	31		0.46	0.038	mg/Kg	1		6010B	Total/NA
Chromium	53	B	1.4	0.054	mg/Kg	1		6010B	Total/NA
Lead	1700		0.74	0.25	mg/Kg	1		6010B	Total/NA
Selenium	1.5		1.2	0.80	mg/Kg	1		6010B	Total/NA
Silver	3.4		0.93	0.15	mg/Kg	1		6010B	Total/NA
Mercury	110		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN26(7-8) — Lab Sample ID: 280-39983-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	53		1.9	0.62	mg/Kg	1		6010B	Total/NA
Barium	300	B	0.93	0.071	mg/Kg	1		6010B	Total/NA
Cadmium	66		0.47	0.038	mg/Kg	1		6010B	Total/NA
Chromium	240	B	1.4	0.054	mg/Kg	1		6010B	Total/NA
Lead	8200		0.75	0.25	mg/Kg	1		6010B	Total/NA
Selenium	5.2		1.2	0.80	mg/Kg	1		6010B	Total/NA
Silver	11		0.93	0.15	mg/Kg	1		6010B	Total/NA
Mercury	220		16	5.2	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN27(1-2) — Lab Sample ID: 280-39983-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	23		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	910	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	36		0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	140	B	1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	6000		0.71	0.24	mg/Kg	1		6010B	Total/NA
Selenium	4.2		1.2	0.76	mg/Kg	1		6010B	Total/NA
Silver	15		0.88	0.14	mg/Kg	1		6010B	Total/NA
Mercury	1500		81	26	ug/Kg	5		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN28(1-2) — Lab Sample ID: 280-39983-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	49		1.9	0.63	mg/Kg	1		6010B	Total/NA
Barium	1800	B	0.95	0.072	mg/Kg	1		6010B	Total/NA
Cadmium	50		0.48	0.039	mg/Kg	1		6010B	Total/NA
Chromium	100	B	1.4	0.055	mg/Kg	1		6010B	Total/NA
Lead	27000		76	26	mg/Kg	100		6010B	Total/NA
Selenium	22		1.2	0.82	mg/Kg	1		6010B	Total/NA
Silver	4.4		0.95	0.15	mg/Kg	1		6010B	Total/NA
Mercury	1400		89	29	ug/Kg	5		7471A	Total/NA

Client Sample ID: SPKN29(1-2) — Lab Sample ID: 280-39983-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		1.8	0.59	mg/Kg	1		6010B	Total/NA
Barium	190	B	0.89	0.068	mg/Kg	1		6010B	Total/NA
Cadmium	0.87		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	8.6	B	1.3	0.052	mg/Kg	1		6010B	Total/NA
Lead	300		0.71	0.24	mg/Kg	1		6010B	Total/NA
Selenium	1.1	J	1.2	0.77	mg/Kg	1		6010B	Total/NA
Lead	0.29	J	0.50	0.013	mg/L	1		6010B	TCLP
Mercury	220		15	5.0	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN30(1-2) — Lab Sample ID: 280-39983-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		1.8	0.60	mg/Kg	1		6010B	Total/NA
Barium	1100	B	0.91	0.069	mg/Kg	1		6010B	Total/NA
Cadmium	0.98		0.45	0.037	mg/Kg	1		6010B	Total/NA
Chromium	7.6		1.4	0.053	mg/Kg	1		6010B	Total/NA
Lead	110		0.73	0.25	mg/Kg	1		6010B	Total/NA
Selenium	1.2		1.2	0.78	mg/Kg	1		6010B	Total/NA
Mercury	100		17	5.6	ug/Kg	1		7471A	Total/NA

Client Sample ID: SPKN31(1-2) — Lab Sample ID: 280-39983-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		1.8	0.58	mg/Kg	1		6010B	Total/NA
Barium	410	B	0.88	0.067	mg/Kg	1		6010B	Total/NA
Cadmium	0.33	J	0.44	0.036	mg/Kg	1		6010B	Total/NA
Chromium	2.9		1.3	0.051	mg/Kg	1		6010B	Total/NA
Lead	35		0.70	0.24	mg/Kg	1		6010B	Total/NA
Selenium	1.2		1.1	0.75	mg/Kg	1		6010B	Total/NA
Mercury	14	J	17	5.4	ug/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Method	Method Description	Protocol	Laboratory
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7471A	Mercury (CVAA)	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: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-39983-1	SPKN1(1-2)	Solid	03/12/13 13:30	03/14/13 16:20
280-39983-2	SPKN2(1-2)	Solid	03/12/13 13:05	03/14/13 16:20
280-39983-3	SPKN3(1-2)	Solid	03/12/13 11:40	03/14/13 16:20
280-39983-4	SPKN4(1-2)	Solid	03/12/13 08:45	03/14/13 16:20
280-39983-5	SPKN4(1-2)D	Solid	03/12/13 08:45	03/14/13 16:20
280-39983-6	SPKN4(4-6)	Solid	03/12/13 08:35	03/14/13 16:20
280-39983-7	SPKN4(8-10)	Solid	03/12/13 08:35	03/14/13 16:20
280-39983-8	SPKN5(1-2)	Solid	03/11/13 15:45	03/14/13 16:20
280-39983-9	SPKN5(4-6)	Solid	03/11/13 15:45	03/14/13 16:20
280-39983-10	SPKN5(8-10)	Solid	03/11/13 15:45	03/14/13 16:20
280-39983-11	SPKN6(1-2)	Solid	03/11/13 15:00	03/14/13 16:20
280-39983-12	SPKN7(1-2)	Solid	03/11/13 13:10	03/14/13 16:20
280-39983-13	SPKN8(1-2)	Solid	03/11/13 11:15	03/14/13 16:20
280-39983-14	SPKN8(1-2)D	Solid	03/11/13 11:15	03/14/13 16:20
280-39983-15	SPKN9(1-2)	Solid	03/11/13 09:50	03/14/13 16:20
280-39983-16	SPKN10(1-2)	Solid	03/11/13 09:35	03/14/13 16:20
280-39983-17	SPKN10(1-2)D	Solid	03/11/13 09:35	03/14/13 16:20
280-39983-18	SPKN11(1-2)	Solid	03/11/13 09:30	03/14/13 16:20
280-39983-19	SPKN12(1-2)	Solid	03/12/13 13:55	03/14/13 16:20
280-39983-20	SPKN13(1-2)	Solid	03/12/13 14:15	03/14/13 16:20
280-39983-21	SPKN14(1-2)	Solid	03/12/13 10:50	03/14/13 16:20
280-39983-22	SPKN14(1-2)D	Solid	03/12/13 10:50	03/14/13 16:20
280-39983-23	SPKN15(1-2)	Solid	03/12/13 09:10	03/14/13 16:20
280-39983-24	SPKN15(4-6)	Solid	03/12/13 09:15	03/14/13 16:20
280-39983-25	SPKN15(8-10)	Solid	03/12/13 09:15	03/14/13 16:20
280-39983-26	SPKN16(1-2)	Solid	03/11/13 16:05	03/14/13 16:20
280-39983-27	SPKN16(4-6)	Solid	03/11/13 16:00	03/14/13 16:20
280-39983-28	SPKN16(8-10)	Solid	03/11/13 16:00	03/14/13 16:20
280-39983-29	SPKN17(1-2)	Solid	03/11/13 15:15	03/14/13 16:20
280-39983-30	SPKN18(1-2)	Solid	03/11/13 13:20	03/14/13 16:20
280-39983-31	SPKN19(1-2)	Solid	03/11/13 11:45	03/14/13 16:20
280-39983-32	SPKN20(1-2)	Solid	03/11/13 10:45	03/14/13 16:20
280-39983-33	SPKN21(1-2)	Solid	03/11/13 10:00	03/14/13 16:20
280-39983-34	SPKN22(1-2)	Solid	03/12/13 17:10	03/14/13 16:20
280-39983-35	SPKN23(1-2)	Solid	03/12/13 15:30	03/14/13 16:20
280-39983-36	SPKN23(8-9)	Solid	03/12/13 15:40	03/14/13 16:20
280-39983-37	SPKN24(1-2)	Solid	03/12/13 10:05	03/14/13 16:20
280-39983-38	SPKN24(4-6)	Solid	03/12/13 10:05	03/14/13 16:20
280-39983-39	SPKN24(8-10)	Solid	03/12/13 10:05	03/14/13 16:20
280-39983-40	SPKN25(1-2)	Solid	03/12/13 09:30	03/14/13 16:20
280-39983-41	SPKN25(4-6)	Solid	03/12/13 09:35	03/14/13 16:20
280-39983-42	SPKN25(8-10)	Solid	03/12/13 09:35	03/14/13 16:20
280-39983-43	SPKN26(1-2)	Solid	03/11/13 14:35	03/14/13 16:20
280-39983-44	SPKN26(7-8)	Solid	03/11/13 14:15	03/14/13 16:20
280-39983-45	SPKN27(1-2)	Solid	03/11/13 13:45	03/14/13 16:20
280-39983-46	SPKN28(1-2)	Solid	03/11/13 12:05	03/14/13 16:20
280-39983-47	SPKN29(1-2)	Solid	03/11/13 10:20	03/14/13 16:20
280-39983-48	SPKN30(1-2)	Solid	03/11/13 10:05	03/14/13 16:20
280-39983-49	SPKN31(1-2)	Solid	03/11/13 10:25	03/14/13 16:20

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: SPKN3(1-2)
Date Collected: 03/12/13 11:40
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39983-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22000		5000	160	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Acenaphthylene	17000		5000	170	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Anthracene	55000		5000	720	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Benzo[a]anthracene	130000		5000	890	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Benzo[a]pyrene	98000		5000	740	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Benzo[g,h,i]perylene	70000		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Benzo[k]fluoranthene	59000		5000	990	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Dibenz(a,h)anthracene	20000		5000	1300	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Fluorene	18000		5000	470	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Indeno[1,2,3-cd]pyrene	76000		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
1-Methylnaphthalene	60000		5000	260	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
2-Methylnaphthalene	56000		5000	310	ng/Kg		03/16/13 08:50	03/18/13 22:46	1
Naphthalene	41000		5000	320	ng/Kg		03/16/13 08:50	03/18/13 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*39 - 120*	*03/16/13 08:50*	*03/18/13 22:46*	*1*
Nitrobenzene-d5	*102*		*42 - 120*	*03/16/13 08:50*	*03/18/13 22:46*	*1*
Terphenyl-d14	*73*		*35 - 124*	*03/16/13 08:50*	*03/18/13 22:46*	*1*

Client Sample ID: SPKN8(1-2)
Date Collected: 03/11/13 11:15
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39983-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1400	J	4900	160	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Acenaphthylene	2800	J	4900	170	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Anthracene	3200	J	4900	700	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Benzo[a]anthracene	7100		4900	880	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Benzo[a]pyrene	6000		4900	720	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Benzo[b]fluoranthene	13000		4900	1200	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Benzo[g,h,i]perylene	9500		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Benzo[k]fluoranthene	3200	J	4900	970	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Chrysene	14000		4900	970	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Dibenz(a,h)anthracene	1700	J	4900	1300	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Fluoranthene	18000		4900	970	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Fluorene	860	J	4900	460	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Indeno[1,2,3-cd]pyrene	4800	J	4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
1-Methylnaphthalene	5200		4900	250	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
2-Methylnaphthalene	5900		4900	300	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Naphthalene	7400		4900	320	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Phenanthrene	15000		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:12	1
Pyrene	15000		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*39 - 120*	*03/16/13 08:50*	*03/18/13 23:12*	*1*
Nitrobenzene-d5	*54*		*42 - 120*	*03/16/13 08:50*	*03/18/13 23:12*	*1*
Terphenyl-d14	*113*		*35 - 124*	*03/16/13 08:50*	*03/18/13 23:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: SPKN8(1-2)D
Date Collected: 03/11/13 11:15
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39983-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2700	J	4900	160	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Acenaphthylene	22000		4900	170	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Anthracene	6400		4900	710	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Benzo[a]anthracene	8500		4900	890	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Benzo[a]pyrene	4900		4900	730	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Benzo[b]fluoranthene	15000		4900	1200	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Benzo[g,h,i]perylene	8000		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Benzo[k]fluoranthene	3700	J	4900	990	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Chrysene	17000		4900	990	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Dibenz(a,h)anthracene	1700	J	4900	1300	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Fluoranthene	28000		4900	990	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Fluorene	4200	J	4900	460	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Indeno[1,2,3-cd]pyrene	5400		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
1-Methylnaphthalene	12000		4900	260	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
2-Methylnaphthalene	13000		4900	300	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Naphthalene	51000		4900	320	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Phenanthrene	25000		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:38	1
Pyrene	23000		4900	1100	ng/Kg		03/16/13 08:50	03/18/13 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*39 - 120*	*03/16/13 08:50*	*03/18/13 23:38*	*1*
Nitrobenzene-d5	*78*		*42 - 120*	*03/16/13 08:50*	*03/18/13 23:38*	*1*
Terphenyl-d14	*46*		*35 - 124*	*03/16/13 08:50*	*03/18/13 23:38*	*1*

Client Sample ID: SPKN22(1-2)
Date Collected: 03/12/13 17:10
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39983-34
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3900	J	4900	160	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Acenaphthylene	45000		4900	170	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Anthracene	23000		4900	700	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Benzo[a]anthracene	20000		4900	880	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Benzo[a]pyrene	9300		4900	720	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Benzo[b]fluoranthene	36000		4900	1200	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Benzo[g,h,i]perylene	8100		4900	1100	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Benzo[k]fluoranthene	7200		4900	970	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Chrysene	35000		4900	970	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Dibenz(a,h)anthracene	2500	J	4900	1300	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Fluoranthene	72000		4900	970	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Fluorene	12000		4900	460	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Indeno[1,2,3-cd]pyrene	10000		4900	1100	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
1-Methylnaphthalene	78000		4900	250	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
2-Methylnaphthalene	69000		4900	300	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Naphthalene	110000		4900	320	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Phenanthrene	85000		4900	1100	ng/Kg		03/16/13 08:50	03/19/13 00:04	1
Pyrene	57000		4900	1100	ng/Kg		03/16/13 08:50	03/19/13 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*39 - 120*	*03/16/13 08:50*	*03/19/13 00:04*	*1*
Nitrobenzene-d5	*139*	*X*	*42 - 120*	*03/16/13 08:50*	*03/19/13 00:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: SPKN22(1-2) — **Lab Sample ID: 280-39983-34**
Date Collected: 03/12/13 17:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*35*		*35 - 124*	*03/16/13 08:50*	*03/19/13 00:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Client Sample ID: SPKN3(1-2) — **Lab Sample ID: 280-39983-3**
Date Collected: 03/12/13 11:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**180000**		20000	4800	ng/Kg		03/16/13 08:50	03/20/13 00:28	4
Chrysene	**170000**		20000	4000	ng/Kg		03/16/13 08:50	03/20/13 00:28	4
Fluoranthene	**300000**		20000	4000	ng/Kg		03/16/13 08:50	03/20/13 00:28	4
Phenanthrene	**290000**		20000	4400	ng/Kg		03/16/13 08:50	03/20/13 00:28	4
Pyrene	**250000**		20000	4400	ng/Kg		03/16/13 08:50	03/20/13 00:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*39 - 120*	*03/16/13 08:50*	*03/20/13 00:28*	*4*
Nitrobenzene-d5	*135*	*X*	*42 - 120*	*03/16/13 08:50*	*03/20/13 00:28*	*4*
Terphenyl-d14	*71*		*35 - 124*	*03/16/13 08:50*	*03/20/13 00:28*	*4*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SPKN3(1-2) — **Lab Sample ID: 280-39983-3**
Date Collected: 03/12/13 11:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.0	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1221	ND		47	15	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1232	ND		33	5.1	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1242	ND		33	9.0	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1248	ND		33	5.6	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1254	**37**		33	5.5	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1260	ND		33	2.6	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1262	ND		33	11	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
PCB-1268	ND		33	3.9	ug/Kg		03/19/13 14:35	03/21/13 12:57	1
Polychlorinated biphenyls, Total	**37**		33	2.6	ug/Kg		03/19/13 14:35	03/21/13 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*	*X*	*59 - 130*	*03/19/13 14:35*	*03/21/13 12:57*	*1*
Tetrachloro-m-xylene	*62*		*53 - 128*	*03/19/13 14:35*	*03/21/13 12:57*	*1*

Client Sample ID: SPKN4(4-6) — **Lab Sample ID: 280-39983-6**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.1	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1221	ND		47	16	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1232	ND		33	5.1	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1242	ND		33	9.1	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1248	**64**		33	5.6	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1254	ND		33	5.5	ug/Kg		03/19/13 14:35	03/21/13 13:20	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SPKN4(4-6) **Lab Sample ID: 280-39983-6**
Date Collected: 03/12/13 08:35 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		33	2.7	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1262	ND		33	12	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
PCB-1268	ND		33	4.0	ug/Kg		03/19/13 14:35	03/21/13 13:20	1
Polychlorinated biphenyls, Total	**64**		33	2.7	ug/Kg		03/19/13 14:35	03/21/13 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*59 - 130*	*03/19/13 14:35*	*03/21/13 13:20*	*1*
Tetrachloro-m-xylene	*65*		*53 - 128*	*03/19/13 14:35*	*03/21/13 13:20*	*1*

Client Sample ID: SPKN4(8-10) **Lab Sample ID: 280-39983-7**
Date Collected: 03/12/13 08:35 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	4.9	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1221	ND		45	15	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1232	ND		32	4.9	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1242	ND		32	8.8	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1248	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1254	ND		32	5.3	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1260	ND		32	2.5	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
PCB-1268	ND		32	3.8	ug/Kg		03/16/13 09:00	03/18/13 16:50	1
Polychlorinated biphenyls, Total	ND		32	2.5	ug/Kg		03/16/13 09:00	03/18/13 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*59 - 130*	*03/16/13 09:00*	*03/18/13 16:50*	*1*
Tetrachloro-m-xylene	*97*		*53 - 128*	*03/16/13 09:00*	*03/18/13 16:50*	*1*

Client Sample ID: SPKN5(4-6) **Lab Sample ID: 280-39983-9**
Date Collected: 03/11/13 15:45 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1242	ND		32	9.0	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1248	ND		32	5.5	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
PCB-1268	ND		32	3.9	ug/Kg		03/16/13 09:00	03/18/13 17:59	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*59 - 130*	*03/16/13 09:00*	*03/18/13 17:59*	*1*
Tetrachloro-m-xylene	*63*		*53 - 128*	*03/16/13 09:00*	*03/18/13 17:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SPKN5(8-10) — **Lab Sample ID: 280-39983-10**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.0	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1232	ND		33	5.1	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1242	ND		33	9.0	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1248	ND		33	5.5	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1254	ND		33	5.4	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1260	ND		33	2.6	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1262	ND		33	11	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
PCB-1268	ND		33	3.9	ug/Kg		03/16/13 09:00	03/18/13 18:22	1
Polychlorinated biphenyls, Total	ND		33	2.6	ug/Kg		03/16/13 09:00	03/18/13 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*59 - 130*	*03/16/13 09:00*	*03/18/13 18:22*	*1*
Tetrachloro-m-xylene	*100*		*53 - 128*	*03/16/13 09:00*	*03/18/13 18:22*	*1*

Client Sample ID: SPKN8(1-2) — **Lab Sample ID: 280-39983-13**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.1	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1221	ND		47	16	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1232	ND		33	5.1	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1242	ND		33	9.1	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1248	ND		33	5.6	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1254	ND		33	5.5	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1260	ND		33	2.7	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1262	ND		33	12	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
PCB-1268	ND		33	4.0	ug/Kg		03/16/13 09:00	03/18/13 18:46	1
Polychlorinated biphenyls, Total	ND		33	2.7	ug/Kg		03/16/13 09:00	03/18/13 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*59 - 130*	*03/16/13 09:00*	*03/18/13 18:46*	*1*
Tetrachloro-m-xylene	*87*		*53 - 128*	*03/16/13 09:00*	*03/18/13 18:46*	*1*

Client Sample ID: SPKN8(1-2)D — **Lab Sample ID: 280-39983-14**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	4.9	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1221	ND		45	15	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1232	ND		32	4.9	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1242	ND		32	8.7	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1248	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1254	**6.2**	**J**	32	5.3	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1260	ND		32	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
PCB-1268	ND		32	3.8	ug/Kg		03/16/13 09:00	03/18/13 19:09	1
Polychlorinated biphenyls, Total	**6.2**	**J**	32	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*59 - 130*	*03/16/13 09:00*	*03/18/13 19:09*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SPKN8(1-2)D — **Lab Sample ID: 280-39983-14**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*53 - 128*	*03/16/13 09:00*	*03/18/13 19:09*	*1*

Client Sample ID: SPKN15(4-6) — **Lab Sample ID: 280-39983-24**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		31	4.8	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1221	ND		44	15	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1232	ND		31	4.8	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1242	ND		31	8.6	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1248	ND		31	5.3	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1254	ND		31	5.2	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1260	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1262	ND		31	11	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
PCB-1268	ND		31	3.7	ug/Kg		03/16/13 09:00	03/18/13 19:32	1
Polychlorinated biphenyls, Total	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*59 - 130*	*03/16/13 09:00*	*03/18/13 19:32*	*1*
Tetrachloro-m-xylene	*73*		*53 - 128*	*03/16/13 09:00*	*03/18/13 19:32*	*1*

Client Sample ID: SPKN15(8-10) — **Lab Sample ID: 280-39983-25**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		31	4.8	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1221	ND		45	15	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1232	ND		31	4.9	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1242	ND		31	8.7	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1248	ND		31	5.3	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1254	ND		31	5.3	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1260	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1262	ND		31	11	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
PCB-1268	ND		31	3.8	ug/Kg		03/16/13 09:00	03/18/13 19:55	1
Polychlorinated biphenyls, Total	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*59 - 130*	*03/16/13 09:00*	*03/18/13 19:55*	*1*
Tetrachloro-m-xylene	*85*		*53 - 128*	*03/16/13 09:00*	*03/18/13 19:55*	*1*

Client Sample ID: SPKN16(4-6) — **Lab Sample ID: 280-39983-27**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1242	ND		32	9.0	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1248	ND		32	5.5	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 20:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SPKN16(4-6) — **Lab Sample ID: 280-39983-27**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
PCB-1268	ND		32	3.9	ug/Kg		03/16/13 09:00	03/18/13 20:18	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*59 - 130*	*03/16/13 09:00*	*03/18/13 20:18*	*1*
Tetrachloro-m-xylene	*88*		*53 - 128*	*03/16/13 09:00*	*03/18/13 20:18*	*1*

Client Sample ID: SPKN16(8-10) — **Lab Sample ID: 280-39983-28**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	4.9	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1242	ND		32	8.9	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1248	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
PCB-1268	ND		32	3.8	ug/Kg		03/16/13 09:00	03/18/13 20:41	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*59 - 130*	*03/16/13 09:00*	*03/18/13 20:41*	*1*
Tetrachloro-m-xylene	*87*		*53 - 128*	*03/16/13 09:00*	*03/18/13 20:41*	*1*

Client Sample ID: SPKN22(1-2) — **Lab Sample ID: 280-39983-34**
Date Collected: 03/12/13 17:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.0	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1221	ND		46	15	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1232	ND		33	5.1	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1242	ND		33	9.0	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1248	ND		33	5.5	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1254	**33**		33	5.4	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1260	**11**	**J**	33	2.6	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1262	ND		33	11	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
PCB-1268	ND		33	3.9	ug/Kg		03/19/13 14:35	03/21/13 13:43	1
Polychlorinated biphenyls, Total	**44**		33	2.6	ug/Kg		03/19/13 14:35	03/21/13 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*	*X*	*59 - 130*	*03/19/13 14:35*	*03/21/13 13:43*	*1*
Tetrachloro-m-xylene	*88*		*53 - 128*	*03/19/13 14:35*	*03/21/13 13:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SPKN24(4-6) **Lab Sample ID: 280-39983-38**
Date Collected: 03/12/13 10:05 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	5.0	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1232	ND		33	5.1	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1242	ND		33	9.0	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1248	ND		33	5.5	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1254	ND		33	5.4	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1260	ND		33	2.6	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1262	ND		33	11	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
PCB-1268	ND		33	3.9	ug/Kg		03/16/13 09:00	03/18/13 21:28	1
Polychlorinated biphenyls, Total	ND		33	2.6	ug/Kg		03/16/13 09:00	03/18/13 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*	*X*	*59 - 130*	*03/16/13 09:00*	*03/18/13 21:28*	*1*
Tetrachloro-m-xylene	*65*		*53 - 128*	*03/16/13 09:00*	*03/18/13 21:28*	*1*

Client Sample ID: SPKN24(8-10) **Lab Sample ID: 280-39983-39**
Date Collected: 03/12/13 10:05 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		31	4.8	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1221	ND		45	15	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1232	ND		31	4.9	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1242	ND		31	8.7	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1248	ND		31	5.3	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1254	ND		31	5.2	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1260	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1262	ND		31	11	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
PCB-1268	ND		31	3.8	ug/Kg		03/16/13 09:00	03/18/13 21:51	1
Polychlorinated biphenyls, Total	ND		31	2.5	ug/Kg		03/16/13 09:00	03/18/13 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*59 - 130*	*03/16/13 09:00*	*03/18/13 21:51*	*1*
Tetrachloro-m-xylene	*91*		*53 - 128*	*03/16/13 09:00*	*03/18/13 21:51*	*1*

Client Sample ID: SPKN25(4-6) **Lab Sample ID: 280-39983-41**
Date Collected: 03/12/13 09:35 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1242	ND		32	8.9	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1248	ND		32	5.5	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
PCB-1268	ND		32	3.9	ug/Kg		03/16/13 09:00	03/18/13 22:14	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*59 - 130*	*03/16/13 09:00*	*03/18/13 22:14*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SPKN25(4-6) — **Lab Sample ID: 280-39983-41**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*53 - 128*	*03/16/13 09:00*	*03/18/13 22:14*	*1*

Client Sample ID: SPKN25(8-10) — **Lab Sample ID: 280-39983-42**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1242	ND		32	8.9	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1248	ND		32	5.5	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
PCB-1268	ND		32	3.8	ug/Kg		03/16/13 09:00	03/18/13 22:37	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*59 - 130*	*03/16/13 09:00*	*03/18/13 22:37*	*1*
Tetrachloro-m-xylene	*83*		*53 - 128*	*03/16/13 09:00*	*03/18/13 22:37*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: SPKN1(1-2) — **Lab Sample ID: 280-39983-1**
Date Collected: 03/12/13 13:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**		1.9	0.62	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Barium	**190**		0.94	0.072	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Cadmium	**2.4**		0.47	0.039	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Chromium	**16**		1.4	0.055	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Lead	**220**		0.75	0.25	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Selenium	ND		1.2	0.81	mg/Kg		03/19/13 06:30	03/20/13 18:19	1
Silver	**0.48**	**J**	0.94	0.15	mg/Kg		03/19/13 06:30	03/20/13 18:19	1

Client Sample ID: SPKN2(1-2) — **Lab Sample ID: 280-39983-2**
Date Collected: 03/12/13 13:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		1.9	0.64	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Barium	**180**		0.97	0.074	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Cadmium	**1.9**		0.49	0.040	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Chromium	**14**		1.5	0.056	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Lead	**150**		0.78	0.26	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Selenium	ND		1.3	0.83	mg/Kg		03/19/13 06:30	03/20/13 18:21	1
Silver	**0.29**	**J**	0.97	0.16	mg/Kg		03/19/13 06:30	03/20/13 18:21	1

Method: 6010B - Metals (ICP)

Client Sample ID: SPKN3(1-2) — **Lab Sample ID: 280-39983-3**
Date Collected: 03/12/13 11:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		1.7	0.56	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Barium	580		0.85	0.064	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Cadmium	4.4		0.42	0.035	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Chromium	12		1.3	0.049	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Lead	420		0.68	0.23	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Selenium	ND		1.1	0.73	mg/Kg		03/19/13 06:30	03/20/13 18:23	1
Silver	1.5		0.85	0.14	mg/Kg		03/19/13 06:30	03/20/13 18:23	1

Client Sample ID: SPKN4(1-2) — **Lab Sample ID: 280-39983-4**
Date Collected: 03/12/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		2.0	0.65	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Barium	380		0.99	0.075	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Cadmium	2.8		0.50	0.041	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Chromium	14		1.5	0.057	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Lead	350		0.79	0.27	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Selenium	1.3		1.3	0.85	mg/Kg		03/19/13 06:30	03/20/13 18:26	1
Silver	0.55	J	0.99	0.16	mg/Kg		03/19/13 06:30	03/20/13 18:26	1

Client Sample ID: SPKN4(1-2)D — **Lab Sample ID: 280-39983-5**
Date Collected: 03/12/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.9	0.64	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Barium	870		0.97	0.074	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Cadmium	2.4		0.49	0.040	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Chromium	14		1.5	0.056	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Lead	220		0.78	0.26	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Selenium	ND		1.3	0.83	mg/Kg		03/19/13 06:30	03/20/13 18:28	1
Silver	0.57	J	0.97	0.16	mg/Kg		03/19/13 06:30	03/20/13 18:28	1

Client Sample ID: SPKN4(4-6) — **Lab Sample ID: 280-39983-6**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.9	0.62	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Barium	170		0.94	0.072	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Cadmium	0.44	J	0.47	0.039	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Chromium	16		1.4	0.055	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Lead	13		0.75	0.25	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Selenium	ND		1.2	0.81	mg/Kg		03/19/13 06:30	03/20/13 18:30	1
Silver	ND		0.94	0.15	mg/Kg		03/19/13 06:30	03/20/13 18:30	1

Client Sample ID: SPKN4(8-10) — **Lab Sample ID: 280-39983-7**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		1.8	0.61	mg/Kg		03/19/13 06:30	03/20/13 18:33	1
Barium	57		0.92	0.070	mg/Kg		03/19/13 06:30	03/20/13 18:33	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN4(8-10) — **Lab Sample ID: 280-39983-7**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.080	J	0.46	0.038	mg/Kg		03/19/13 06:30	03/20/13 18:33	1
Chromium	19		1.4	0.053	mg/Kg		03/19/13 06:30	03/20/13 18:33	1
Lead	5.1		0.73	0.25	mg/Kg		03/19/13 06:30	03/20/13 18:33	1
Selenium	ND		1.2	0.79	mg/Kg		03/19/13 06:30	03/20/13 18:33	1
Silver	ND		0.92	0.15	mg/Kg		03/19/13 06:30	03/20/13 18:33	1

Client Sample ID: SPKN5(1-2) — **Lab Sample ID: 280-39983-8**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		2.0	0.65	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Barium	360	B	0.98	0.075	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Cadmium	2.7		0.49	0.040	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Chromium	23	B	1.5	0.057	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Lead	320		0.78	0.26	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Selenium	1.5		1.3	0.84	mg/Kg		03/18/13 14:00	03/20/13 01:28	1
Silver	0.73	J	0.98	0.16	mg/Kg		03/18/13 14:00	03/20/13 01:28	1

Client Sample ID: SPKN5(4-6) — **Lab Sample ID: 280-39983-9**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.9	0.62	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Barium	110	B	0.94	0.072	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Cadmium	0.24	J	0.47	0.039	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Chromium	9.7	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Lead	8.1		0.75	0.25	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Selenium	ND		1.2	0.81	mg/Kg		03/18/13 14:00	03/20/13 01:37	1
Silver	ND		0.94	0.15	mg/Kg		03/18/13 14:00	03/20/13 01:37	1

Client Sample ID: SPKN5(8-10) — **Lab Sample ID: 280-39983-10**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Barium	72	B	0.95	0.072	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Cadmium	0.066	J	0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Chromium	6.1	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Lead	5.6		0.76	0.26	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Selenium	ND		1.2	0.82	mg/Kg		03/18/13 14:00	03/20/13 01:40	1
Silver	ND		0.95	0.15	mg/Kg		03/18/13 14:00	03/20/13 01:40	1

Client Sample ID: SPKN6(1-2) — **Lab Sample ID: 280-39983-11**
Date Collected: 03/11/13 15:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		1.8	0.60	mg/Kg		03/18/13 14:00	03/20/13 01:51	1
Barium	130	B	0.91	0.069	mg/Kg		03/18/13 14:00	03/20/13 01:51	1
Cadmium	0.98		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 01:51	1
Chromium	11	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 01:51	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN6(1-2) — **Lab Sample ID: 280-39983-11**
Date Collected: 03/11/13 15:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	88		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 01:51	1
Selenium	ND		1.2	0.78	mg/Kg		03/18/13 14:00	03/20/13 01:51	1
Silver	ND		0.91	0.15	mg/Kg		03/18/13 14:00	03/20/13 01:51	1

Client Sample ID: SPKN7(1-2) — **Lab Sample ID: 280-39983-12**
Date Collected: 03/11/13 13:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.7	0.56	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Barium	110	B	0.85	0.064	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Cadmium	0.51		0.42	0.035	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Chromium	8.8	B	1.3	0.049	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Lead	30		0.68	0.23	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Selenium	ND		1.1	0.73	mg/Kg		03/18/13 14:00	03/20/13 01:54	1
Silver	ND		0.85	0.14	mg/Kg		03/18/13 14:00	03/20/13 01:54	1

Client Sample ID: SPKN8(1-2) — **Lab Sample ID: 280-39983-13**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Barium	290	B	0.96	0.073	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Cadmium	1.5		0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Chromium	13	B	1.4	0.056	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Lead	160		0.77	0.26	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Selenium	ND		1.3	0.83	mg/Kg		03/18/13 14:00	03/20/13 01:56	1
Silver	0.15	J	0.96	0.15	mg/Kg		03/18/13 14:00	03/20/13 01:56	1

Client Sample ID: SPKN8(1-2)D — **Lab Sample ID: 280-39983-14**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Barium	890	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Cadmium	2.1		0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Chromium	16	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Lead	410		0.71	0.24	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Selenium	ND		1.2	0.76	mg/Kg		03/18/13 14:00	03/20/13 01:59	1
Silver	0.86	J	0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 01:59	1

Client Sample ID: SPKN9(1-2) — **Lab Sample ID: 280-39983-15**
Date Collected: 03/11/13 09:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		2.0	0.66	mg/Kg		03/18/13 14:00	03/20/13 02:01	1
Barium	1200	B	1.0	0.076	mg/Kg		03/18/13 14:00	03/20/13 02:01	1
Cadmium	1.7		0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 02:01	1
Chromium	9.3	B	1.5	0.058	mg/Kg		03/18/13 14:00	03/20/13 02:01	1
Lead	85		0.80	0.27	mg/Kg		03/18/13 14:00	03/20/13 02:01	1
Selenium	1.1	J	1.3	0.86	mg/Kg		03/18/13 14:00	03/20/13 02:01	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN9(1-2) **Lab Sample ID: 280-39983-15**
Date Collected: 03/11/13 09:50 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.16	mg/Kg		03/18/13 14:00	03/20/13 02:01	1

Client Sample ID: SPKN10(1-2) **Lab Sample ID: 280-39983-16**
Date Collected: 03/11/13 09:35 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.8	0.59	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Barium	210	B	0.89	0.068	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Cadmium	3.8		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Chromium	12	B	1.3	0.052	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Lead	1200		0.71	0.24	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Selenium	ND		1.2	0.77	mg/Kg		03/18/13 14:00	03/20/13 02:05	1
Silver	ND		0.89	0.14	mg/Kg		03/18/13 14:00	03/20/13 02:05	1

Client Sample ID: SPKN10(1-2)D **Lab Sample ID: 280-39983-17**
Date Collected: 03/11/13 09:35 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Barium	230	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Cadmium	4.5		0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Chromium	8.8	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Lead	840		0.71	0.24	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Selenium	ND		1.2	0.76	mg/Kg		03/18/13 14:00	03/20/13 02:07	1
Silver	ND		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 02:07	1

Client Sample ID: SPKN11(1-2) **Lab Sample ID: 280-39983-18**
Date Collected: 03/11/13 09:30 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		1.8	0.60	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Barium	210	B	0.91	0.069	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Cadmium	4.4		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Chromium	16	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Lead	2500		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Selenium	ND		1.2	0.78	mg/Kg		03/18/13 14:00	03/20/13 02:10	1
Silver	1.0		0.91	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:10	1

Client Sample ID: SPKN12(1-2) **Lab Sample ID: 280-39983-19**
Date Collected: 03/12/13 13:55 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		1.9	0.64	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Barium	170	B	0.97	0.074	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Cadmium	1.2		0.49	0.040	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Chromium	13	B	1.5	0.056	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Lead	80		0.78	0.26	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Selenium	ND		1.3	0.83	mg/Kg		03/18/13 14:00	03/20/13 02:12	1
Silver	ND		0.97	0.16	mg/Kg		03/18/13 14:00	03/20/13 02:12	1

Method: 6010B - Metals (ICP)

Client Sample ID: SPKN13(1-2) — **Lab Sample ID: 280-39983-20**
Date Collected: 03/12/13 14:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		1.8	0.59	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Barium	110	B	0.90	0.068	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Cadmium	1.4		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Chromium	11	B	1.4	0.052	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Lead	54		0.72	0.24	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Selenium	ND		1.2	0.77	mg/Kg		03/18/13 14:00	03/20/13 02:24	1
Silver	ND		0.90	0.14	mg/Kg		03/18/13 14:00	03/20/13 02:24	1

Client Sample ID: SPKN14(1-2) — **Lab Sample ID: 280-39983-21**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.9	0.64	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Barium	170	B	0.97	0.074	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Cadmium	3.9		0.49	0.040	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Chromium	11	B	1.5	0.056	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Lead	310		0.78	0.26	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Selenium	ND		1.3	0.83	mg/Kg		03/18/13 14:00	03/20/13 02:26	1
Silver	0.91	J	0.97	0.16	mg/Kg		03/18/13 14:00	03/20/13 02:26	1

Client Sample ID: SPKN14(1-2)D — **Lab Sample ID: 280-39983-22**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		1.8	0.60	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Barium	190	B	0.91	0.069	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Cadmium	2.7		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Chromium	13	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Lead	320		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Selenium	ND		1.2	0.78	mg/Kg		03/18/13 14:00	03/20/13 02:29	1
Silver	0.63	J	0.91	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:29	1

Client Sample ID: SPKN15(1-2) — **Lab Sample ID: 280-39983-23**
Date Collected: 03/12/13 09:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		1.8	0.61	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Barium	190	B	0.92	0.070	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Cadmium	1.7		0.46	0.038	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Chromium	16	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Lead	220		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Selenium	ND		1.2	0.79	mg/Kg		03/18/13 14:00	03/20/13 02:31	1
Silver	0.25	J	0.92	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:31	1

Client Sample ID: SPKN15(4-6) — **Lab Sample ID: 280-39983-24**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4		2.0	0.65	mg/Kg		03/18/13 14:00	03/20/13 02:34	1
Barium	94	B	0.99	0.075	mg/Kg		03/18/13 14:00	03/20/13 02:34	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN15(4-6) — **Lab Sample ID: 280-39983-24**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.42	J	0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 02:34	1
Chromium	9.5	B	1.5	0.057	mg/Kg		03/18/13 14:00	03/20/13 02:34	1
Lead	22		0.79	0.27	mg/Kg		03/18/13 14:00	03/20/13 02:34	1
Selenium	ND		1.3	0.85	mg/Kg		03/18/13 14:00	03/20/13 02:34	1
Silver	ND		0.99	0.16	mg/Kg		03/18/13 14:00	03/20/13 02:34	1

Client Sample ID: SPKN15(8-10) — **Lab Sample ID: 280-39983-25**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	J	1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Barium	45	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Cadmium	0.16	J	0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Chromium	5.0	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Lead	9.6		0.70	0.24	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Selenium	ND		1.1	0.75	mg/Kg		03/18/13 14:00	03/20/13 02:36	1
Silver	ND		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 02:36	1

Client Sample ID: SPKN16(1-2) — **Lab Sample ID: 280-39983-26**
Date Collected: 03/11/13 16:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.8	0.61	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Barium	170	B	0.92	0.070	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Cadmium	1.7		0.46	0.038	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Chromium	16	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Lead	270		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Selenium	ND		1.2	0.79	mg/Kg		03/18/13 14:00	03/20/13 02:38	1
Silver	0.47	J	0.92	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:38	1

Client Sample ID: SPKN16(4-6) — **Lab Sample ID: 280-39983-27**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.9	0.62	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Barium	65	B	0.93	0.071	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Cadmium	0.33	J	0.47	0.038	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Chromium	4.8	B	1.4	0.054	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Lead	14		0.75	0.25	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Selenium	ND		1.2	0.80	mg/Kg		03/18/13 14:00	03/20/13 02:40	1
Silver	ND		0.93	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:40	1

Client Sample ID: SPKN16(8-10) — **Lab Sample ID: 280-39983-28**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 02:57	1
Barium	88	B	0.95	0.072	mg/Kg		03/18/13 14:00	03/20/13 02:57	1
Cadmium	0.72		0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 02:57	1
Chromium	8.2	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 02:57	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN16(8-10) — **Lab Sample ID: 280-39983-28**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		0.76	0.26	mg/Kg		03/18/13 14:00	03/20/13 02:57	1
Selenium	ND		1.2	0.82	mg/Kg		03/18/13 14:00	03/20/13 02:57	1
Silver	ND		0.95	0.15	mg/Kg		03/18/13 14:00	03/20/13 02:57	1

Client Sample ID: SPKN17(1-2) — **Lab Sample ID: 280-39983-29**
Date Collected: 03/11/13 15:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		1.9	0.64	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Barium	110	B	0.97	0.074	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Cadmium	0.71		0.49	0.040	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Chromium	16	B	1.5	0.056	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Lead	72		0.78	0.26	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Selenium	ND		1.3	0.83	mg/Kg		03/18/13 14:00	03/20/13 03:06	1
Silver	ND		0.97	0.16	mg/Kg		03/18/13 14:00	03/20/13 03:06	1

Client Sample ID: SPKN18(1-2) — **Lab Sample ID: 280-39983-30**
Date Collected: 03/11/13 13:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.7	0.56	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Barium	240	B	0.85	0.065	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Cadmium	4.6		0.43	0.035	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Chromium	62	B	1.3	0.050	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Lead	910		0.68	0.23	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Selenium	0.78	J	1.1	0.74	mg/Kg		03/18/13 14:00	03/20/13 03:08	1
Silver	1.9		0.85	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:08	1

Client Sample ID: SPKN19(1-2) — **Lab Sample ID: 280-39983-31**
Date Collected: 03/11/13 11:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.8		2.0	0.66	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Barium	330	B	1.0	0.076	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Cadmium	7.8		0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Chromium	56	B	1.5	0.058	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Lead	1600		0.80	0.27	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Selenium	1.2	J	1.3	0.86	mg/Kg		03/18/13 14:00	03/20/13 03:20	1
Silver	1.3		1.0	0.16	mg/Kg		03/18/13 14:00	03/20/13 03:20	1

Client Sample ID: SPKN20(1-2) — **Lab Sample ID: 280-39983-32**
Date Collected: 03/11/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		1.8	0.60	mg/Kg		03/18/13 14:00	03/20/13 03:23	1
Barium	260	B	0.91	0.069	mg/Kg		03/18/13 14:00	03/20/13 03:23	1
Cadmium	0.92		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 03:23	1
Chromium	150	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 03:23	1
Lead	140		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 03:23	1
Selenium	1.3		1.2	0.78	mg/Kg		03/18/13 14:00	03/20/13 03:23	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN20(1-2) — **Lab Sample ID: 280-39983-32**
Date Collected: 03/11/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.48	J	0.91	0.15	mg/Kg		03/18/13 14:00	03/20/13 03:23	1

Client Sample ID: SPKN21(1-2) — **Lab Sample ID: 280-39983-33**
Date Collected: 03/11/13 10:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		1.7	0.57	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Barium	150	B	0.86	0.066	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Cadmium	4.5		0.43	0.035	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Chromium	170	B	1.3	0.050	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Lead	720		0.69	0.23	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Selenium	0.80	J	1.1	0.74	mg/Kg		03/18/13 14:00	03/20/13 03:26	1
Silver	1.7		0.86	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:26	1

Client Sample ID: SPKN22(1-2) — **Lab Sample ID: 280-39983-34**
Date Collected: 03/12/13 17:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Barium	430	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Cadmium	1.6		0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Chromium	24	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Lead	380		0.70	0.24	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Selenium	ND		1.1	0.75	mg/Kg		03/18/13 14:00	03/20/13 03:29	1
Silver	0.37	J	0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:29	1

Client Sample ID: SPKN23(1-2) — **Lab Sample ID: 280-39983-35**
Date Collected: 03/12/13 15:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		1.9	0.62	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Barium	300	B	0.94	0.072	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Cadmium	1.8		0.47	0.039	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Chromium	14	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Lead	340		0.75	0.25	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Selenium	ND		1.2	0.81	mg/Kg		03/18/13 14:00	03/20/13 03:31	1
Silver	0.32	J	0.94	0.15	mg/Kg		03/18/13 14:00	03/20/13 03:31	1

Client Sample ID: SPKN23(8-9) — **Lab Sample ID: 280-39983-36**
Date Collected: 03/12/13 15:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Barium	76	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Cadmium	0.19	J	0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Chromium	3.6	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Lead	34		0.70	0.24	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Selenium	3.9		1.1	0.75	mg/Kg		03/18/13 14:00	03/20/13 03:34	1
Silver	ND		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:34	1

Method: 6010B - Metals (ICP)

Client Sample ID: SPKN24(1-2) — **Lab Sample ID: 280-39983-37**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		1.8	0.59	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Barium	130	B	0.90	0.068	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Cadmium	0.78		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Chromium	18	B	1.4	0.052	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Lead	140		0.72	0.24	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Selenium	ND		1.2	0.77	mg/Kg		03/18/13 14:00	03/20/13 03:36	1
Silver	ND		0.90	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:36	1

Client Sample ID: SPKN24(4-6) — **Lab Sample ID: 280-39983-38**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Barium	110	B	0.95	0.072	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Cadmium	0.14	J	0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Chromium	14	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Lead	11		0.76	0.26	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Selenium	ND		1.2	0.82	mg/Kg		03/18/13 14:00	03/20/13 03:38	1
Silver	ND		0.95	0.15	mg/Kg		03/18/13 14:00	03/20/13 03:38	1

Client Sample ID: SPKN24(8-10) — **Lab Sample ID: 280-39983-39**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.8	0.61	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Barium	91	B	0.92	0.070	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Cadmium	0.064	J	0.46	0.038	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Chromium	18	B	1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Lead	9.9		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Selenium	ND		1.2	0.79	mg/Kg		03/18/13 14:00	03/20/13 03:41	1
Silver	ND		0.92	0.15	mg/Kg		03/18/13 14:00	03/20/13 03:41	1

Client Sample ID: SPKN25(1-2) — **Lab Sample ID: 280-39983-40**
Date Collected: 03/12/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		2.0	0.65	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Barium	360	B	0.98	0.075	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Cadmium	4.3		0.49	0.040	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Chromium	40	B	1.5	0.057	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Lead	890		0.78	0.26	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Selenium	1.1	J	1.3	0.84	mg/Kg		03/18/13 14:00	03/20/13 03:52	1
Silver	3.2		0.98	0.16	mg/Kg		03/18/13 14:00	03/20/13 03:52	1

Client Sample ID: SPKN25(4-6) — **Lab Sample ID: 280-39983-41**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	J	1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 03:56	1
Barium	76	B	0.95	0.072	mg/Kg		03/18/13 14:00	03/20/13 03:56	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN25(4-6) — **Lab Sample ID: 280-39983-41**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.24	J	0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 03:56	1
Chromium	8.9	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 03:56	1
Lead	11		0.76	0.26	mg/Kg		03/18/13 14:00	03/20/13 03:56	1
Selenium	ND		1.2	0.82	mg/Kg		03/18/13 14:00	03/20/13 03:56	1
Silver	ND		0.95	0.15	mg/Kg		03/18/13 14:00	03/20/13 03:56	1

Client Sample ID: SPKN25(8-10) — **Lab Sample ID: 280-39983-42**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.63	J	1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Barium	21	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Cadmium	ND		0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Chromium	150	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Lead	5.1		0.70	0.24	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Selenium	ND		1.1	0.75	mg/Kg		03/18/13 14:00	03/20/13 03:58	1
Silver	ND		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 03:58	1

Client Sample ID: SPKN26(1-2) — **Lab Sample ID: 280-39983-43**
Date Collected: 03/11/13 14:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.9	0.61	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Barium	250	B	0.93	0.070	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Cadmium	31		0.46	0.038	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Chromium	53	B	1.4	0.054	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Lead	1700		0.74	0.25	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Selenium	1.5		1.2	0.80	mg/Kg		03/18/13 14:00	03/20/13 04:01	1
Silver	3.4		0.93	0.15	mg/Kg		03/18/13 14:00	03/20/13 04:01	1

Client Sample ID: SPKN26(7-8) — **Lab Sample ID: 280-39983-44**
Date Collected: 03/11/13 14:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	53		1.9	0.62	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Barium	300	B	0.93	0.071	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Cadmium	66		0.47	0.038	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Chromium	240	B	1.4	0.054	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Lead	8200		0.75	0.25	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Selenium	5.2		1.2	0.80	mg/Kg		03/18/13 14:00	03/20/13 04:04	1
Silver	11		0.93	0.15	mg/Kg		03/18/13 14:00	03/20/13 04:04	1

Client Sample ID: SPKN27(1-2) — **Lab Sample ID: 280-39983-45**
Date Collected: 03/11/13 13:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 04:07	1
Barium	910	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 04:07	1
Cadmium	36		0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 04:07	1
Chromium	140	B	1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 04:07	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN27(1-2) — **Lab Sample ID: 280-39983-45**
Date Collected: 03/11/13 13:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6000		0.71	0.24	mg/Kg		03/18/13 14:00	03/20/13 04:07	1
Selenium	4.2		1.2	0.76	mg/Kg		03/18/13 14:00	03/20/13 04:07	1
Silver	15		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 04:07	1

Client Sample ID: SPKN28(1-2) — **Lab Sample ID: 280-39983-46**
Date Collected: 03/11/13 12:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	49		1.9	0.63	mg/Kg		03/18/13 14:00	03/20/13 04:10	1
Barium	1800	B	0.95	0.072	mg/Kg		03/18/13 14:00	03/20/13 04:10	1
Cadmium	50		0.48	0.039	mg/Kg		03/18/13 14:00	03/20/13 04:10	1
Chromium	100	B	1.4	0.055	mg/Kg		03/18/13 14:00	03/20/13 04:10	1
Lead	27000		76	26	mg/Kg		03/18/13 14:00	03/20/13 12:32	100
Selenium	22		1.2	0.82	mg/Kg		03/18/13 14:00	03/20/13 04:10	1
Silver	4.4		0.95	0.15	mg/Kg		03/18/13 14:00	03/20/13 04:10	1

Client Sample ID: SPKN29(1-2) — **Lab Sample ID: 280-39983-47**
Date Collected: 03/11/13 10:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		1.8	0.59	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Barium	190	B	0.89	0.068	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Cadmium	0.87		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Chromium	8.6	B	1.3	0.052	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Lead	300		0.71	0.24	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Selenium	1.1	J	1.2	0.77	mg/Kg		03/18/13 14:00	03/20/13 04:13	1
Silver	ND		0.89	0.14	mg/Kg		03/18/13 14:00	03/20/13 04:13	1

Client Sample ID: SPKN30(1-2) — **Lab Sample ID: 280-39983-48**
Date Collected: 03/11/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		1.8	0.60	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Barium	1100	B	0.91	0.069	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Cadmium	0.98		0.45	0.037	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Chromium	7.6		1.4	0.053	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Lead	110		0.73	0.25	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Selenium	1.2		1.2	0.78	mg/Kg		03/18/13 14:00	03/20/13 04:30	1
Silver	ND		0.91	0.15	mg/Kg		03/18/13 14:00	03/20/13 04:30	1

Client Sample ID: SPKN31(1-2) — **Lab Sample ID: 280-39983-49**
Date Collected: 03/11/13 10:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		1.8	0.58	mg/Kg		03/18/13 14:00	03/20/13 04:39	1
Barium	410	B	0.88	0.067	mg/Kg		03/18/13 14:00	03/20/13 04:39	1
Cadmium	0.33	J	0.44	0.036	mg/Kg		03/18/13 14:00	03/20/13 04:39	1
Chromium	2.9		1.3	0.051	mg/Kg		03/18/13 14:00	03/20/13 04:39	1
Lead	35		0.70	0.24	mg/Kg		03/18/13 14:00	03/20/13 04:39	1
Selenium	1.2		1.1	0.75	mg/Kg		03/18/13 14:00	03/20/13 04:39	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: SPKN31(1-2) — **Lab Sample ID: 280-39983-49**
Date Collected: 03/11/13 10:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.88	0.14	mg/Kg		03/18/13 14:00	03/20/13 04:39	1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SPKN6(1-2) — **Lab Sample ID: 280-39983-11**
Date Collected: 03/11/13 15:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.079	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:50	1

Client Sample ID: SPKN7(1-2) — **Lab Sample ID: 280-39983-12**
Date Collected: 03/11/13 13:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.063	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:52	1

Client Sample ID: SPKN8(1-2) — **Lab Sample ID: 280-39983-13**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:03	1

Client Sample ID: SPKN8(1-2)D — **Lab Sample ID: 280-39983-14**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:05	1

Client Sample ID: SPKN10(1-2) — **Lab Sample ID: 280-39983-16**
Date Collected: 03/11/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.67		0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:07	1

Client Sample ID: SPKN13(1-2) — **Lab Sample ID: 280-39983-20**
Date Collected: 03/12/13 14:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.041	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:54	1

Client Sample ID: SPKN15(4-6) — **Lab Sample ID: 280-39983-24**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.35	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:19	1

Client Sample ID: SPKN16(1-2) — **Lab Sample ID: 280-39983-26**
Date Collected: 03/11/13 16:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.6		0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:57	1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SPKN20(1-2) — **Lab Sample ID: 280-39983-32**
Date Collected: 03/11/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.050	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:59	1

Client Sample ID: SPKN22(1-2) — **Lab Sample ID: 280-39983-34**
Date Collected: 03/12/13 17:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.047	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:21	1

Client Sample ID: SPKN29(1-2) — **Lab Sample ID: 280-39983-47**
Date Collected: 03/11/13 10:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.29	J	0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:24	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN1(1-2) — **Lab Sample ID: 280-39983-1**
Date Collected: 03/12/13 13:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	160		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 19:27	1

Client Sample ID: SPKN2(1-2) — **Lab Sample ID: 280-39983-2**
Date Collected: 03/12/13 13:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	150		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 19:34	1

Client Sample ID: SPKN3(1-2) — **Lab Sample ID: 280-39983-3**
Date Collected: 03/12/13 11:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	220		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 19:36	1

Client Sample ID: SPKN4(1-2) — **Lab Sample ID: 280-39983-4**
Date Collected: 03/12/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	110		19	6.3	ug/Kg		03/19/13 13:15	03/19/13 19:39	1

Client Sample ID: SPKN4(1-2)D — **Lab Sample ID: 280-39983-5**
Date Collected: 03/12/13 08:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	83		19	6.3	ug/Kg		03/19/13 13:15	03/19/13 19:41	1

Client Sample ID: SPKN4(4-6) — **Lab Sample ID: 280-39983-6**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	110		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 19:48	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN4(8-10) — **Lab Sample ID: 280-39983-7**
Date Collected: 03/12/13 08:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		18	5.7	ug/Kg		03/19/13 13:15	03/19/13 19:50	1

Client Sample ID: SPKN5(1-2) — **Lab Sample ID: 280-39983-8**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	80		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 19:53	1

Client Sample ID: SPKN5(4-6) — **Lab Sample ID: 280-39983-9**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 19:55	1

Client Sample ID: SPKN5(8-10) — **Lab Sample ID: 280-39983-10**
Date Collected: 03/11/13 15:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		16	5.4	ug/Kg		03/19/13 13:15	03/19/13 19:57	1

Client Sample ID: SPKN6(1-2) — **Lab Sample ID: 280-39983-11**
Date Collected: 03/11/13 15:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		15	4.9	ug/Kg		03/19/13 13:15	03/19/13 20:02	1

Client Sample ID: SPKN7(1-2) — **Lab Sample ID: 280-39983-12**
Date Collected: 03/11/13 13:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J	16	5.3	ug/Kg		03/19/13 13:15	03/19/13 20:05	1

Client Sample ID: SPKN8(1-2) — **Lab Sample ID: 280-39983-13**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 20:07	1

Client Sample ID: SPKN8(1-2)D — **Lab Sample ID: 280-39983-14**
Date Collected: 03/11/13 11:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46		15	4.9	ug/Kg		03/19/13 13:15	03/19/13 20:09	1

Client Sample ID: SPKN9(1-2) — **Lab Sample ID: 280-39983-15**
Date Collected: 03/11/13 09:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53		18	5.9	ug/Kg		03/19/13 13:15	03/19/13 20:12	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN10(1-2) — **Lab Sample ID: 280-39983-16**
Date Collected: 03/11/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	95		18	5.7	ug/Kg		03/19/13 13:15	03/19/13 20:19	1

Client Sample ID: SPKN10(1-2)D — **Lab Sample ID: 280-39983-17**
Date Collected: 03/11/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	87		18	5.7	ug/Kg		03/19/13 13:15	03/19/13 20:21	1

Client Sample ID: SPKN11(1-2) — **Lab Sample ID: 280-39983-18**
Date Collected: 03/11/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	240		16	5.4	ug/Kg		03/19/13 13:15	03/19/13 20:23	1

Client Sample ID: SPKN12(1-2) — **Lab Sample ID: 280-39983-19**
Date Collected: 03/12/13 13:55 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	310		19	6.1	ug/Kg		03/19/13 13:15	03/19/13 20:26	1

Client Sample ID: SPKN13(1-2) — **Lab Sample ID: 280-39983-20**
Date Collected: 03/12/13 14:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	74		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 20:28	1

Client Sample ID: SPKN14(1-2) — **Lab Sample ID: 280-39983-21**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	100		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 20:35	1

Client Sample ID: SPKN14(1-2)D — **Lab Sample ID: 280-39983-22**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 20:49	1

Client Sample ID: SPKN15(1-2) — **Lab Sample ID: 280-39983-23**
Date Collected: 03/12/13 09:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	70		17	5.4	ug/Kg		03/19/13 13:15	03/19/13 20:51	1

Client Sample ID: SPKN15(4-6) — **Lab Sample ID: 280-39983-24**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 20:54	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN15(8-10) — **Lab Sample ID: 280-39983-25**
Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 20:56	1

Client Sample ID: SPKN16(1-2) — **Lab Sample ID: 280-39983-26**
Date Collected: 03/11/13 16:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	57		16	5.1	ug/Kg		03/19/13 13:15	03/19/13 20:58	1

Client Sample ID: SPKN16(4-6) — **Lab Sample ID: 280-39983-27**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 21:01	1

Client Sample ID: SPKN16(8-10) — **Lab Sample ID: 280-39983-28**
Date Collected: 03/11/13 16:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.9	J	15	4.8	ug/Kg		03/19/13 13:15	03/19/13 21:03	1

Client Sample ID: SPKN17(1-2) — **Lab Sample ID: 280-39983-29**
Date Collected: 03/11/13 15:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	64		18	5.9	ug/Kg		03/19/13 13:15	03/19/13 21:05	1

Client Sample ID: SPKN18(1-2) — **Lab Sample ID: 280-39983-30**
Date Collected: 03/11/13 13:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	250		15	4.7	ug/Kg		03/19/13 13:15	03/19/13 21:08	1

Client Sample ID: SPKN19(1-2) — **Lab Sample ID: 280-39983-31**
Date Collected: 03/11/13 11:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1500		88	29	ug/Kg		03/19/13 13:15	03/19/13 23:35	5

Client Sample ID: SPKN20(1-2) — **Lab Sample ID: 280-39983-32**
Date Collected: 03/11/13 10:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	240		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 21:23	1

Client Sample ID: SPKN21(1-2) — **Lab Sample ID: 280-39983-33**
Date Collected: 03/11/13 10:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1300		89	29	ug/Kg		03/19/13 13:15	03/19/13 23:37	5

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN22(1-2) — **Lab Sample ID: 280-39983-34**
Date Collected: 03/12/13 17:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	98		18	5.7	ug/Kg		03/19/13 13:15	03/19/13 21:33	1

Client Sample ID: SPKN23(1-2) — **Lab Sample ID: 280-39983-35**
Date Collected: 03/12/13 15:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	160		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 21:35	1

Client Sample ID: SPKN23(8-9) — **Lab Sample ID: 280-39983-36**
Date Collected: 03/12/13 15:40 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J	16	5.4	ug/Kg		03/19/13 13:15	03/19/13 21:37	1

Client Sample ID: SPKN24(1-2) — **Lab Sample ID: 280-39983-37**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		17	5.4	ug/Kg		03/19/13 13:15	03/19/13 21:40	1

Client Sample ID: SPKN24(4-6) — **Lab Sample ID: 280-39983-38**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	16	5.1	ug/Kg		03/19/13 13:15	03/19/13 21:42	1

Client Sample ID: SPKN24(8-10) — **Lab Sample ID: 280-39983-39**
Date Collected: 03/12/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 21:44	1

Client Sample ID: SPKN25(1-2) — **Lab Sample ID: 280-39983-40**
Date Collected: 03/12/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	370		16	5.2	ug/Kg		03/19/13 13:15	03/19/13 21:47	1

Client Sample ID: SPKN25(4-6) — **Lab Sample ID: 280-39983-41**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 21:58	1

Client Sample ID: SPKN25(8-10) — **Lab Sample ID: 280-39983-42**
Date Collected: 03/12/13 09:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		16	5.3	ug/Kg		03/19/13 13:15	03/19/13 22:05	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SPKN26(1-2) — **Lab Sample ID: 280-39983-43**
Date Collected: 03/11/13 14:35 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	110		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 22:07	1

Client Sample ID: SPKN26(7-8) — **Lab Sample ID: 280-39983-44**
Date Collected: 03/11/13 14:15 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	220		16	5.2	ug/Kg		03/19/13 13:15	03/19/13 22:10	1

Client Sample ID: SPKN27(1-2) — **Lab Sample ID: 280-39983-45**
Date Collected: 03/11/13 13:45 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1500		81	26	ug/Kg		03/19/13 13:15	03/19/13 23:39	5

Client Sample ID: SPKN28(1-2) — **Lab Sample ID: 280-39983-46**
Date Collected: 03/11/13 12:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1400		89	29	ug/Kg		03/19/13 13:15	03/19/13 23:42	5

Client Sample ID: SPKN29(1-2) — **Lab Sample ID: 280-39983-47**
Date Collected: 03/11/13 10:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	220		15	5.0	ug/Kg		03/19/13 13:15	03/19/13 22:28	1

Client Sample ID: SPKN30(1-2) — **Lab Sample ID: 280-39983-48**
Date Collected: 03/11/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	100		17	5.6	ug/Kg		03/19/13 13:15	03/19/13 23:14	1

Client Sample ID: SPKN31(1-2) — **Lab Sample ID: 280-39983-49**
Date Collected: 03/11/13 10:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	17	5.4	ug/Kg		03/19/13 13:15	03/19/13 23:16	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

GC/MS Semi VOA

Prep Batch: 165131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-B-2-B MS	Matrix Spike	Total/NA	Solid	3546	
280-39977-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
280-39983-3	SPKN3(1-2)	Total/NA	Solid	3546	
280-39983-3 - DL	SPKN3(1-2)	Total/NA	Solid	3546	
280-39983-13	SPKN8(1-2)	Total/NA	Solid	3546	
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	3546	
280-39983-34	SPKN22(1-2)	Total/NA	Solid	3546	
LCS 280-165131/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-165131/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 165375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39977-B-2-B MS	Matrix Spike	Total/NA	Solid	8270C SIM	165131
280-39977-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	165131
280-39983-3	SPKN3(1-2)	Total/NA	Solid	8270C SIM	165131
280-39983-13	SPKN8(1-2)	Total/NA	Solid	8270C SIM	165131
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	8270C SIM	165131
280-39983-34	SPKN22(1-2)	Total/NA	Solid	8270C SIM	165131
LCS 280-165131/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	165131
MB 280-165131/1-A	Method Blank	Total/NA	Solid	8270C SIM	165131

Analysis Batch: 165577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-3 - DL	SPKN3(1-2)	Total/NA	Solid	8270C SIM	165131

GC Semi VOA

Prep Batch: 165128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-7	SPKN4(8-10)	Total/NA	Solid	3546	
280-39983-7 MS	SPKN4(8-10)	Total/NA	Solid	3546	
280-39983-7 MSD	SPKN4(8-10)	Total/NA	Solid	3546	
280-39983-9	SPKN5(4-6)	Total/NA	Solid	3546	
280-39983-10	SPKN5(8-10)	Total/NA	Solid	3546	
280-39983-13	SPKN8(1-2)	Total/NA	Solid	3546	
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	3546	
280-39983-24	SPKN15(4-6)	Total/NA	Solid	3546	
280-39983-25	SPKN15(8-10)	Total/NA	Solid	3546	
280-39983-27	SPKN16(4-6)	Total/NA	Solid	3546	
280-39983-28	SPKN16(8-10)	Total/NA	Solid	3546	
280-39983-38	SPKN24(4-6)	Total/NA	Solid	3546	
280-39983-39	SPKN24(8-10)	Total/NA	Solid	3546	
280-39983-41	SPKN25(4-6)	Total/NA	Solid	3546	
280-39983-42	SPKN25(8-10)	Total/NA	Solid	3546	
LCS 280-165128/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-165128/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 165248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-7	SPKN4(8-10)	Total/NA	Solid	8082	165128

GC Semi VOA (Continued)

Analysis Batch: 165248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-7 MS	SPKN4(8-10)	Total/NA	Solid	8082	165128
280-39983-7 MSD	SPKN4(8-10)	Total/NA	Solid	8082	165128
280-39983-9	SPKN5(4-6)	Total/NA	Solid	8082	165128
280-39983-10	SPKN5(8-10)	Total/NA	Solid	8082	165128
280-39983-13	SPKN8(1-2)	Total/NA	Solid	8082	165128
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	8082	165128
280-39983-24	SPKN15(4-6)	Total/NA	Solid	8082	165128
280-39983-25	SPKN15(8-10)	Total/NA	Solid	8082	165128
280-39983-27	SPKN16(4-6)	Total/NA	Solid	8082	165128
280-39983-28	SPKN16(8-10)	Total/NA	Solid	8082	165128
280-39983-38	SPKN24(4-6)	Total/NA	Solid	8082	165128
280-39983-39	SPKN24(8-10)	Total/NA	Solid	8082	165128
280-39983-41	SPKN25(4-6)	Total/NA	Solid	8082	165128
280-39983-42	SPKN25(8-10)	Total/NA	Solid	8082	165128
LCS 280-165128/2-A	Lab Control Sample	Total/NA	Solid	8082	165128
MB 280-165128/1-A	Method Blank	Total/NA	Solid	8082	165128

Prep Batch: 165550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-3	SPKN3(1-2)	Total/NA	Solid	3546	
280-39983-6	SPKN4(4-6)	Total/NA	Solid	3546	
280-39983-34	SPKN22(1-2)	Total/NA	Solid	3546	
280-39983-34 MS	SPKN22(1-2)	Total/NA	Solid	3546	
280-39983-34 MSD	SPKN22(1-2)	Total/NA	Solid	3546	
LCS 280-165550/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-165550/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 165908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-3	SPKN3(1-2)	Total/NA	Solid	8082	165550
280-39983-6	SPKN4(4-6)	Total/NA	Solid	8082	165550
280-39983-34	SPKN22(1-2)	Total/NA	Solid	8082	165550
280-39983-34 MS	SPKN22(1-2)	Total/NA	Solid	8082	165550
280-39983-34 MSD	SPKN22(1-2)	Total/NA	Solid	8082	165550
LCS 280-165550/2-A	Lab Control Sample	Total/NA	Solid	8082	165550
MB 280-165550/1-A	Method Blank	Total/NA	Solid	8082	165550

Metals

Prep Batch: 165153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-B MS	Matrix Spike	Total/NA	Solid	3050B	
280-39971-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
280-39983-1	SPKN1(1-2)	Total/NA	Solid	3050B	
280-39983-2	SPKN2(1-2)	Total/NA	Solid	3050B	
280-39983-3	SPKN3(1-2)	Total/NA	Solid	3050B	
280-39983-4	SPKN4(1-2)	Total/NA	Solid	3050B	
280-39983-5	SPKN4(1-2)D	Total/NA	Solid	3050B	
280-39983-6	SPKN4(4-6)	Total/NA	Solid	3050B	
280-39983-7	SPKN4(8-10)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 165153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165153/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 165155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-8	SPKN5(1-2)	Total/NA	Solid	3050B	
280-39983-8 MS	SPKN5(1-2)	Total/NA	Solid	3050B	
280-39983-8 MSD	SPKN5(1-2)	Total/NA	Solid	3050B	
280-39983-9	SPKN5(4-6)	Total/NA	Solid	3050B	
280-39983-10	SPKN5(8-10)	Total/NA	Solid	3050B	
280-39983-11	SPKN6(1-2)	Total/NA	Solid	3050B	
280-39983-12	SPKN7(1-2)	Total/NA	Solid	3050B	
280-39983-13	SPKN8(1-2)	Total/NA	Solid	3050B	
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	3050B	
280-39983-15	SPKN9(1-2)	Total/NA	Solid	3050B	
280-39983-16	SPKN10(1-2)	Total/NA	Solid	3050B	
280-39983-17	SPKN10(1-2)D	Total/NA	Solid	3050B	
280-39983-18	SPKN11(1-2)	Total/NA	Solid	3050B	
280-39983-19	SPKN12(1-2)	Total/NA	Solid	3050B	
280-39983-20	SPKN13(1-2)	Total/NA	Solid	3050B	
280-39983-21	SPKN14(1-2)	Total/NA	Solid	3050B	
280-39983-22	SPKN14(1-2)D	Total/NA	Solid	3050B	
280-39983-23	SPKN15(1-2)	Total/NA	Solid	3050B	
280-39983-24	SPKN15(4-6)	Total/NA	Solid	3050B	
280-39983-25	SPKN15(8-10)	Total/NA	Solid	3050B	
280-39983-26	SPKN16(1-2)	Total/NA	Solid	3050B	
280-39983-27	SPKN16(4-6)	Total/NA	Solid	3050B	
LCS 280-165155/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165155/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 165157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-28	SPKN16(8-10)	Total/NA	Solid	3050B	
280-39983-28 MS	SPKN16(8-10)	Total/NA	Solid	3050B	
280-39983-28 MSD	SPKN16(8-10)	Total/NA	Solid	3050B	
280-39983-29	SPKN17(1-2)	Total/NA	Solid	3050B	
280-39983-30	SPKN18(1-2)	Total/NA	Solid	3050B	
280-39983-31	SPKN19(1-2)	Total/NA	Solid	3050B	
280-39983-32	SPKN20(1-2)	Total/NA	Solid	3050B	
280-39983-33	SPKN21(1-2)	Total/NA	Solid	3050B	
280-39983-34	SPKN22(1-2)	Total/NA	Solid	3050B	
280-39983-35	SPKN23(1-2)	Total/NA	Solid	3050B	
280-39983-36	SPKN23(8-9)	Total/NA	Solid	3050B	
280-39983-37	SPKN24(1-2)	Total/NA	Solid	3050B	
280-39983-38	SPKN24(4-6)	Total/NA	Solid	3050B	
280-39983-39	SPKN24(8-10)	Total/NA	Solid	3050B	
280-39983-40	SPKN25(1-2)	Total/NA	Solid	3050B	
280-39983-41	SPKN25(4-6)	Total/NA	Solid	3050B	
280-39983-42	SPKN25(8-10)	Total/NA	Solid	3050B	
280-39983-43	SPKN26(1-2)	Total/NA	Solid	3050B	
280-39983-44	SPKN26(7-8)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 165157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-45	SPKN27(1-2)	Total/NA	Solid	3050B	
280-39983-46	SPKN28(1-2)	Total/NA	Solid	3050B	
280-39983-47	SPKN29(1-2)	Total/NA	Solid	3050B	
LCS 280-165157/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165157/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 165158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-48	SPKN30(1-2)	Total/NA	Solid	3050B	
280-39983-48 MS	SPKN30(1-2)	Total/NA	Solid	3050B	
280-39983-48 MSD	SPKN30(1-2)	Total/NA	Solid	3050B	
280-39983-49	SPKN31(1-2)	Total/NA	Solid	3050B	
LCS 280-165158/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-165158/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 165161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-11	SPKN6(1-2)	TCLP	Solid	1311	
280-39983-12	SPKN7(1-2)	TCLP	Solid	1311	
280-39983-20	SPKN13(1-2)	TCLP	Solid	1311	
280-39983-26	SPKN16(1-2)	TCLP	Solid	1311	
280-39983-32	SPKN20(1-2)	TCLP	Solid	1311	
280-39983-32 MS	SPKN20(1-2)	TCLP	Solid	1311	
280-39983-32 MSD	SPKN20(1-2)	TCLP	Solid	1311	
LB2 280-165161/1-B LB2	Method Blank	TCLP	Solid	1311	
LCS 280-165161/2-B	Lab Control Sample	TCLP	Solid	1311	

Leach Batch: 165163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-13	SPKN8(1-2)	TCLP	Solid	1311	
280-39983-14	SPKN8(1-2)D	TCLP	Solid	1311	
280-39983-16	SPKN10(1-2)	TCLP	Solid	1311	
280-39983-24	SPKN15(4-6)	TCLP	Solid	1311	
280-39983-34	SPKN22(1-2)	TCLP	Solid	1311	
280-39983-47	SPKN29(1-2)	TCLP	Solid	1311	
280-39983-47 MS	SPKN29(1-2)	TCLP	Solid	1311	
280-39983-47 MSD	SPKN29(1-2)	TCLP	Solid	1311	
LB 280-165163/1-C LB	Method Blank	TCLP	Solid	1311	
LCS 280-165163/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 165245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-11	SPKN6(1-2)	TCLP	Solid	3010A	165161
280-39983-12	SPKN7(1-2)	TCLP	Solid	3010A	165161
280-39983-20	SPKN13(1-2)	TCLP	Solid	3010A	165161
280-39983-26	SPKN16(1-2)	TCLP	Solid	3010A	165161
280-39983-32	SPKN20(1-2)	TCLP	Solid	3010A	165161
280-39983-32 MS	SPKN20(1-2)	TCLP	Solid	3010A	165161
280-39983-32 MSD	SPKN20(1-2)	TCLP	Solid	3010A	165161
LB2 280-165161/1-B LB2	Method Blank	TCLP	Solid	3010A	165161
LCS 280-165161/2-B	Lab Control Sample	TCLP	Solid	3010A	165161

Metals (Continued)

Prep Batch: 165250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-13	SPKN8(1-2)	TCLP	Solid	3010A	165163
280-39983-14	SPKN8(1-2)D	TCLP	Solid	3010A	165163
280-39983-16	SPKN10(1-2)	TCLP	Solid	3010A	165163
280-39983-24	SPKN15(4-6)	TCLP	Solid	3010A	165163
280-39983-34	SPKN22(1-2)	TCLP	Solid	3010A	165163
280-39983-47	SPKN29(1-2)	TCLP	Solid	3010A	165163
280-39983-47 MS	SPKN29(1-2)	TCLP	Solid	3010A	165163
280-39983-47 MSD	SPKN29(1-2)	TCLP	Solid	3010A	165163
LB 280-165163/1-C LB	Method Blank	TCLP	Solid	3010A	165163
LCS 280-165163/2-C	Lab Control Sample	TCLP	Solid	3010A	165163

Prep Batch: 165402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-1	SPKN1(1-2)	Total/NA	Solid	7471A	
280-39983-1 MS	SPKN1(1-2)	Total/NA	Solid	7471A	
280-39983-1 MSD	SPKN1(1-2)	Total/NA	Solid	7471A	
280-39983-2	SPKN2(1-2)	Total/NA	Solid	7471A	
280-39983-3	SPKN3(1-2)	Total/NA	Solid	7471A	
280-39983-4	SPKN4(1-2)	Total/NA	Solid	7471A	
280-39983-5	SPKN4(1-2)D	Total/NA	Solid	7471A	
280-39983-6	SPKN4(4-6)	Total/NA	Solid	7471A	
280-39983-7	SPKN4(8-10)	Total/NA	Solid	7471A	
280-39983-8	SPKN5(1-2)	Total/NA	Solid	7471A	
280-39983-9	SPKN5(4-6)	Total/NA	Solid	7471A	
280-39983-10	SPKN5(8-10)	Total/NA	Solid	7471A	
280-39983-11	SPKN6(1-2)	Total/NA	Solid	7471A	
280-39983-12	SPKN7(1-2)	Total/NA	Solid	7471A	
280-39983-13	SPKN8(1-2)	Total/NA	Solid	7471A	
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	7471A	
280-39983-15	SPKN9(1-2)	Total/NA	Solid	7471A	
280-39983-16	SPKN10(1-2)	Total/NA	Solid	7471A	
280-39983-17	SPKN10(1-2)D	Total/NA	Solid	7471A	
280-39983-18	SPKN11(1-2)	Total/NA	Solid	7471A	
280-39983-19	SPKN12(1-2)	Total/NA	Solid	7471A	
280-39983-20	SPKN13(1-2)	Total/NA	Solid	7471A	
LCS 280-165402/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-165402/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 165403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-21	SPKN14(1-2)	Total/NA	Solid	7471A	
280-39983-21 MS	SPKN14(1-2)	Total/NA	Solid	7471A	
280-39983-21 MSD	SPKN14(1-2)	Total/NA	Solid	7471A	
280-39983-22	SPKN14(1-2)D	Total/NA	Solid	7471A	
280-39983-23	SPKN15(1-2)	Total/NA	Solid	7471A	
280-39983-24	SPKN15(4-6)	Total/NA	Solid	7471A	
280-39983-25	SPKN15(8-10)	Total/NA	Solid	7471A	
280-39983-26	SPKN16(1-2)	Total/NA	Solid	7471A	
280-39983-27	SPKN16(4-6)	Total/NA	Solid	7471A	
280-39983-28	SPKN16(8-10)	Total/NA	Solid	7471A	
280-39983-29	SPKN17(1-2)	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 165403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-30	SPKN18(1-2)	Total/NA	Solid	7471A	
280-39983-31	SPKN19(1-2)	Total/NA	Solid	7471A	
280-39983-32	SPKN20(1-2)	Total/NA	Solid	7471A	
280-39983-33	SPKN21(1-2)	Total/NA	Solid	7471A	
280-39983-34	SPKN22(1-2)	Total/NA	Solid	7471A	
280-39983-35	SPKN23(1-2)	Total/NA	Solid	7471A	
280-39983-36	SPKN23(8-9)	Total/NA	Solid	7471A	
280-39983-37	SPKN24(1-2)	Total/NA	Solid	7471A	
280-39983-38	SPKN24(4-6)	Total/NA	Solid	7471A	
280-39983-39	SPKN24(8-10)	Total/NA	Solid	7471A	
280-39983-40	SPKN25(1-2)	Total/NA	Solid	7471A	
LCS 280-165403/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-165403/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 165406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-41	SPKN25(4-6)	Total/NA	Solid	7471A	
280-39983-41 MS	SPKN25(4-6)	Total/NA	Solid	7471A	
280-39983-41 MSD	SPKN25(4-6)	Total/NA	Solid	7471A	
280-39983-42	SPKN25(8-10)	Total/NA	Solid	7471A	
280-39983-43	SPKN26(1-2)	Total/NA	Solid	7471A	
280-39983-44	SPKN26(7-8)	Total/NA	Solid	7471A	
280-39983-45	SPKN27(1-2)	Total/NA	Solid	7471A	
280-39983-46	SPKN28(1-2)	Total/NA	Solid	7471A	
280-39983-47	SPKN29(1-2)	Total/NA	Solid	7471A	
280-39983-48	SPKN30(1-2)	Total/NA	Solid	7471A	
280-39983-49	SPKN31(1-2)	Total/NA	Solid	7471A	
LCS 280-165406/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-165406/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 165670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-8	SPKN5(1-2)	Total/NA	Solid	6010B	165155
280-39983-8 MS	SPKN5(1-2)	Total/NA	Solid	6010B	165155
280-39983-8 MSD	SPKN5(1-2)	Total/NA	Solid	6010B	165155
280-39983-9	SPKN5(4-6)	Total/NA	Solid	6010B	165155
280-39983-10	SPKN5(8-10)	Total/NA	Solid	6010B	165155
280-39983-11	SPKN6(1-2)	TCLP	Solid	6010B	165245
280-39983-11	SPKN6(1-2)	Total/NA	Solid	6010B	165155
280-39983-12	SPKN7(1-2)	TCLP	Solid	6010B	165245
280-39983-12	SPKN7(1-2)	Total/NA	Solid	6010B	165155
280-39983-13	SPKN8(1-2)	TCLP	Solid	6010B	165250
280-39983-13	SPKN8(1-2)	Total/NA	Solid	6010B	165155
280-39983-14	SPKN8(1-2)D	TCLP	Solid	6010B	165250
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	6010B	165155
280-39983-15	SPKN9(1-2)	Total/NA	Solid	6010B	165155
280-39983-16	SPKN10(1-2)	TCLP	Solid	6010B	165250
280-39983-16	SPKN10(1-2)	Total/NA	Solid	6010B	165155
280-39983-17	SPKN10(1-2)D	Total/NA	Solid	6010B	165155
280-39983-18	SPKN11(1-2)	Total/NA	Solid	6010B	165155
280-39983-19	SPKN12(1-2)	Total/NA	Solid	6010B	165155

Metals (Continued)

Analysis Batch: 165670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-20	SPKN13(1-2)	TCLP	Solid	6010B	165245
280-39983-20	SPKN13(1-2)	Total/NA	Solid	6010B	165155
280-39983-21	SPKN14(1-2)	Total/NA	Solid	6010B	165155
280-39983-22	SPKN14(1-2)D	Total/NA	Solid	6010B	165155
280-39983-23	SPKN15(1-2)	Total/NA	Solid	6010B	165155
280-39983-24	SPKN15(4-6)	TCLP	Solid	6010B	165250
280-39983-24	SPKN15(4-6)	Total/NA	Solid	6010B	165155
280-39983-25	SPKN15(8-10)	Total/NA	Solid	6010B	165155
280-39983-26	SPKN16(1-2)	TCLP	Solid	6010B	165245
280-39983-26	SPKN16(1-2)	Total/NA	Solid	6010B	165155
280-39983-27	SPKN16(4-6)	Total/NA	Solid	6010B	165155
280-39983-28	SPKN16(8-10)	Total/NA	Solid	6010B	165157
280-39983-28 MS	SPKN16(8-10)	Total/NA	Solid	6010B	165157
280-39983-28 MSD	SPKN16(8-10)	Total/NA	Solid	6010B	165157
280-39983-29	SPKN17(1-2)	Total/NA	Solid	6010B	165157
280-39983-30	SPKN18(1-2)	Total/NA	Solid	6010B	165157
280-39983-31	SPKN19(1-2)	Total/NA	Solid	6010B	165157
280-39983-32	SPKN20(1-2)	TCLP	Solid	6010B	165245
280-39983-32	SPKN20(1-2)	Total/NA	Solid	6010B	165157
280-39983-32 MS	SPKN20(1-2)	TCLP	Solid	6010B	165245
280-39983-32 MSD	SPKN20(1-2)	TCLP	Solid	6010B	165245
280-39983-33	SPKN21(1-2)	Total/NA	Solid	6010B	165157
280-39983-34	SPKN22(1-2)	TCLP	Solid	6010B	165250
280-39983-34	SPKN22(1-2)	Total/NA	Solid	6010B	165157
280-39983-35	SPKN23(1-2)	Total/NA	Solid	6010B	165157
280-39983-36	SPKN23(8-9)	Total/NA	Solid	6010B	165157
280-39983-37	SPKN24(1-2)	Total/NA	Solid	6010B	165157
280-39983-38	SPKN24(4-6)	Total/NA	Solid	6010B	165157
280-39983-39	SPKN24(8-10)	Total/NA	Solid	6010B	165157
280-39983-40	SPKN25(1-2)	Total/NA	Solid	6010B	165157
280-39983-41	SPKN25(4-6)	Total/NA	Solid	6010B	165157
280-39983-42	SPKN25(8-10)	Total/NA	Solid	6010B	165157
280-39983-43	SPKN26(1-2)	Total/NA	Solid	6010B	165157
280-39983-44	SPKN26(7-8)	Total/NA	Solid	6010B	165157
280-39983-45	SPKN27(1-2)	Total/NA	Solid	6010B	165157
280-39983-46	SPKN28(1-2)	Total/NA	Solid	6010B	165157
280-39983-47	SPKN29(1-2)	TCLP	Solid	6010B	165250
280-39983-47	SPKN29(1-2)	Total/NA	Solid	6010B	165157
280-39983-47 MS	SPKN29(1-2)	TCLP	Solid	6010B	165250
280-39983-47 MSD	SPKN29(1-2)	TCLP	Solid	6010B	165250
280-39983-48	SPKN30(1-2)	Total/NA	Solid	6010B	165158
280-39983-48 MS	SPKN30(1-2)	Total/NA	Solid	6010B	165158
280-39983-48 MSD	SPKN30(1-2)	Total/NA	Solid	6010B	165158
280-39983-49	SPKN31(1-2)	Total/NA	Solid	6010B	165158
LB 280-165163/1-C LB	Method Blank	TCLP	Solid	6010B	165250
LB2 280-165161/1-B LB2	Method Blank	TCLP	Solid	6010B	165245
LCS 280-165155/2-A	Lab Control Sample	Total/NA	Solid	6010B	165155
LCS 280-165157/2-A	Lab Control Sample	Total/NA	Solid	6010B	165157
LCS 280-165158/2-A	Lab Control Sample	Total/NA	Solid	6010B	165158
LCS 280-165161/2-B	Lab Control Sample	TCLP	Solid	6010B	165245
LCS 280-165163/2-C	Lab Control Sample	TCLP	Solid	6010B	165250

Metals (Continued)

Analysis Batch: 165670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-165155/1-A	Method Blank	Total/NA	Solid	6010B	165155
MB 280-165157/1-A	Method Blank	Total/NA	Solid	6010B	165157
MB 280-165158/1-A	Method Blank	Total/NA	Solid	6010B	165158

Analysis Batch: 165749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-1	SPKN1(1-2)	Total/NA	Solid	7471A	165402
280-39983-1 MS	SPKN1(1-2)	Total/NA	Solid	7471A	165402
280-39983-1 MSD	SPKN1(1-2)	Total/NA	Solid	7471A	165402
280-39983-2	SPKN2(1-2)	Total/NA	Solid	7471A	165402
280-39983-3	SPKN3(1-2)	Total/NA	Solid	7471A	165402
280-39983-4	SPKN4(1-2)	Total/NA	Solid	7471A	165402
280-39983-5	SPKN4(1-2)D	Total/NA	Solid	7471A	165402
280-39983-6	SPKN4(4-6)	Total/NA	Solid	7471A	165402
280-39983-7	SPKN4(8-10)	Total/NA	Solid	7471A	165402
280-39983-8	SPKN5(1-2)	Total/NA	Solid	7471A	165402
280-39983-9	SPKN5(4-6)	Total/NA	Solid	7471A	165402
280-39983-10	SPKN5(8-10)	Total/NA	Solid	7471A	165402
280-39983-11	SPKN6(1-2)	Total/NA	Solid	7471A	165402
280-39983-12	SPKN7(1-2)	Total/NA	Solid	7471A	165402
280-39983-13	SPKN8(1-2)	Total/NA	Solid	7471A	165402
280-39983-14	SPKN8(1-2)D	Total/NA	Solid	7471A	165402
280-39983-15	SPKN9(1-2)	Total/NA	Solid	7471A	165402
280-39983-16	SPKN10(1-2)	Total/NA	Solid	7471A	165402
280-39983-17	SPKN10(1-2)D	Total/NA	Solid	7471A	165402
280-39983-18	SPKN11(1-2)	Total/NA	Solid	7471A	165402
280-39983-19	SPKN12(1-2)	Total/NA	Solid	7471A	165402
280-39983-20	SPKN13(1-2)	Total/NA	Solid	7471A	165402
280-39983-21	SPKN14(1-2)	Total/NA	Solid	7471A	165403
280-39983-21 MS	SPKN14(1-2)	Total/NA	Solid	7471A	165403
280-39983-21 MSD	SPKN14(1-2)	Total/NA	Solid	7471A	165403
280-39983-22	SPKN14(1-2)D	Total/NA	Solid	7471A	165403
280-39983-23	SPKN15(1-2)	Total/NA	Solid	7471A	165403
280-39983-24	SPKN15(4-6)	Total/NA	Solid	7471A	165403
280-39983-25	SPKN15(8-10)	Total/NA	Solid	7471A	165403
280-39983-26	SPKN16(1-2)	Total/NA	Solid	7471A	165403
280-39983-27	SPKN16(4-6)	Total/NA	Solid	7471A	165403
280-39983-28	SPKN16(8-10)	Total/NA	Solid	7471A	165403
280-39983-29	SPKN17(1-2)	Total/NA	Solid	7471A	165403
280-39983-30	SPKN18(1-2)	Total/NA	Solid	7471A	165403
280-39983-31	SPKN19(1-2)	Total/NA	Solid	7471A	165403
280-39983-32	SPKN20(1-2)	Total/NA	Solid	7471A	165403
280-39983-33	SPKN21(1-2)	Total/NA	Solid	7471A	165403
280-39983-34	SPKN22(1-2)	Total/NA	Solid	7471A	165403
280-39983-35	SPKN23(1-2)	Total/NA	Solid	7471A	165403
280-39983-36	SPKN23(8-9)	Total/NA	Solid	7471A	165403
280-39983-37	SPKN24(1-2)	Total/NA	Solid	7471A	165403
280-39983-38	SPKN24(4-6)	Total/NA	Solid	7471A	165403
280-39983-39	SPKN24(8-10)	Total/NA	Solid	7471A	165403
280-39983-40	SPKN25(1-2)	Total/NA	Solid	7471A	165403
280-39983-41	SPKN25(4-6)	Total/NA	Solid	7471A	165406

Metals (Continued)

Analysis Batch: 165749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-41 MS	SPKN25(4-6)	Total/NA	Solid	7471A	165406
280-39983-41 MSD	SPKN25(4-6)	Total/NA	Solid	7471A	165406
280-39983-42	SPKN25(8-10)	Total/NA	Solid	7471A	165406
280-39983-43	SPKN26(1-2)	Total/NA	Solid	7471A	165406
280-39983-44	SPKN26(7-8)	Total/NA	Solid	7471A	165406
280-39983-45	SPKN27(1-2)	Total/NA	Solid	7471A	165406
280-39983-46	SPKN28(1-2)	Total/NA	Solid	7471A	165406
280-39983-47	SPKN29(1-2)	Total/NA	Solid	7471A	165406
280-39983-48	SPKN30(1-2)	Total/NA	Solid	7471A	165406
280-39983-49	SPKN31(1-2)	Total/NA	Solid	7471A	165406
LCS 280-165402/2-A	Lab Control Sample	Total/NA	Solid	7471A	165402
LCS 280-165403/2-A	Lab Control Sample	Total/NA	Solid	7471A	165403
LCS 280-165406/2-A	Lab Control Sample	Total/NA	Solid	7471A	165406
MB 280-165402/1-A	Method Blank	Total/NA	Solid	7471A	165402
MB 280-165403/1-A	Method Blank	Total/NA	Solid	7471A	165403
MB 280-165406/1-A	Method Blank	Total/NA	Solid	7471A	165406

Analysis Batch: 165754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39983-46	SPKN28(1-2)	Total/NA	Solid	6010B	165157

Analysis Batch: 165909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39971-A-1-B MS	Matrix Spike	Total/NA	Solid	6010B	165153
280-39971-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	165153
280-39983-1	SPKN1(1-2)	Total/NA	Solid	6010B	165153
280-39983-2	SPKN2(1-2)	Total/NA	Solid	6010B	165153
280-39983-3	SPKN3(1-2)	Total/NA	Solid	6010B	165153
280-39983-4	SPKN4(1-2)	Total/NA	Solid	6010B	165153
280-39983-5	SPKN4(1-2)D	Total/NA	Solid	6010B	165153
280-39983-6	SPKN4(4-6)	Total/NA	Solid	6010B	165153
280-39983-7	SPKN4(8-10)	Total/NA	Solid	6010B	165153
LCS 280-165153/2-A	Lab Control Sample	Total/NA	Solid	6010B	165153
MB 280-165153/1-A	Method Blank	Total/NA	Solid	6010B	165153

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 280-165131/1-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5000	160	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Acenaphthylene	ND		5000	170	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Anthracene	ND		5000	720	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[a]anthracene	ND		5000	890	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[a]pyrene	ND		5000	740	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[b]fluoranthene	ND		5000	1200	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[g,h,i]perylene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Benzo[k]fluoranthene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Chrysene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Dibenz(a,h)anthracene	ND		5000	1300	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Fluoranthene	ND		5000	990	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Fluorene	ND		5000	470	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Indeno[1,2,3-cd]pyrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
1-Methylnaphthalene	ND		5000	260	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
2-Methylnaphthalene	ND		5000	310	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Naphthalene	ND		5000	320	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Phenanthrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1
Pyrene	ND		5000	1100	ng/Kg		03/16/13 08:50	03/18/13 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*39 - 120*	*03/16/13 08:50*	*03/18/13 17:31*	*1*
Nitrobenzene-d5	*81*		*42 - 120*	*03/16/13 08:50*	*03/18/13 17:31*	*1*
Terphenyl-d14	*91*		*35 - 124*	*03/16/13 08:50*	*03/18/13 17:31*	*1*

Lab Sample ID: LCS 280-165131/2-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	28700	25400		ng/Kg		89	35 - 120
Acenaphthylene	28700	23400		ng/Kg		82	41 - 120
Anthracene	28700	23000		ng/Kg		80	43 - 120
Benzo[a]anthracene	28700	23000		ng/Kg		80	36 - 120
Benzo[a]pyrene	28700	21100		ng/Kg		74	20 - 120
Benzo[b]fluoranthene	28700	23900		ng/Kg		83	37 - 120
Benzo[g,h,i]perylene	28700	23500		ng/Kg		82	20 - 123
Benzo[k]fluoranthene	28700	24600		ng/Kg		86	46 - 120
Chrysene	28700	26800		ng/Kg		94	34 - 120
Dibenz(a,h)anthracene	28700	23100		ng/Kg		81	20 - 120
Fluoranthene	28700	24000		ng/Kg		84	45 - 120
Fluorene	28700	24700		ng/Kg		86	44 - 120
Indeno[1,2,3-cd]pyrene	28700	22900		ng/Kg		80	20 - 127
Naphthalene	28700	26800		ng/Kg		93	44 - 120
Phenanthrene	28700	26200		ng/Kg		91	44 - 120
Pyrene	28700	24100		ng/Kg		84	43 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 280-165131/2-A
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	86		39 - 120
Nitrobenzene-d5	84		42 - 120
Terphenyl-d14	91		35 - 124

Lab Sample ID: 280-39977-B-2-B MS
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28600	24000		ng/Kg		84	35 - 120
Acenaphthylene	ND		28600	22600		ng/Kg		79	41 - 120
Anthracene	ND		28600	22900		ng/Kg		80	43 - 120
Benzo[a]anthracene	ND		28600	24400		ng/Kg		85	36 - 120
Benzo[a]pyrene	ND		28600	23800		ng/Kg		83	20 - 120
Benzo[b]fluoranthene	ND		28600	24800		ng/Kg		87	37 - 120
Benzo[g,h,i]perylene	ND		28600	23400		ng/Kg		82	20 - 123
Benzo[k]fluoranthene	ND		28600	25400		ng/Kg		89	46 - 120
Chrysene	ND		28600	26700		ng/Kg		93	34 - 120
Dibenz(a,h)anthracene	ND		28600	23900		ng/Kg		84	20 - 120
Fluoranthene	ND		28600	24200		ng/Kg		85	45 - 120
Fluorene	ND		28600	23800		ng/Kg		83	44 - 120
Indeno[1,2,3-cd]pyrene	ND		28600	24800		ng/Kg		87	20 - 127
Naphthalene	ND		28600	24100		ng/Kg		84	44 - 120
Phenanthrene	ND		28600	25400		ng/Kg		89	44 - 120
Pyrene	ND		28600	24100		ng/Kg		84	43 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	80		39 - 120
Nitrobenzene-d5	80		42 - 120
Terphenyl-d14	91		35 - 124

Lab Sample ID: 280-39977-B-2-C MSD
Matrix: Solid
Analysis Batch: 165375

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 165131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		29700	24300		ng/Kg		82	35 - 120	1	50
Acenaphthylene	ND		29700	23200		ng/Kg		78	41 - 120	3	50
Anthracene	ND		29700	23500		ng/Kg		79	43 - 120	2	50
Benzo[a]anthracene	ND		29700	24800		ng/Kg		83	36 - 120	1	40
Benzo[a]pyrene	ND		29700	24000		ng/Kg		81	20 - 120	1	30
Benzo[b]fluoranthene	ND		29700	25000		ng/Kg		84	37 - 120	1	28
Benzo[g,h,i]perylene	ND		29700	23600		ng/Kg		79	20 - 123	1	30
Benzo[k]fluoranthene	ND		29700	25600		ng/Kg		86	46 - 120	1	28
Chrysene	ND		29700	26800		ng/Kg		90	34 - 120	1	41
Dibenz(a,h)anthracene	ND		29700	23700		ng/Kg		80	20 - 120	1	25
Fluoranthene	ND		29700	24700		ng/Kg		83	45 - 120	2	30
Fluorene	ND		29700	24000		ng/Kg		81	44 - 120	1	50

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 280-39977-B-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165375 — **Prep Batch: 165131**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	ND		29700	24800		ng/Kg		83	20 - 127	0	50
Naphthalene	ND		29700	24800		ng/Kg		83	44 - 120	3	50
Phenanthrene	ND		29700	26200		ng/Kg		88	44 - 120	3	42
Pyrene	ND		29700	24900		ng/Kg		84	43 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*39 - 120*
Nitrobenzene-d5	*79*		*42 - 120*
Terphenyl-d14	*89*		*35 - 124*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-165128/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165248 — **Prep Batch: 165128**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1221	ND		46	15	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1232	ND		32	5.0	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1242	ND		32	8.9	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1248	ND		32	5.5	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1254	ND		32	5.4	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1260	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1262	ND		32	11	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
PCB-1268	ND		32	3.8	ug/Kg		03/16/13 09:00	03/18/13 15:17	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/16/13 09:00	03/18/13 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*59 - 130*	*03/16/13 09:00*	*03/18/13 15:17*	*1*
Tetrachloro-m-xylene	*97*		*53 - 128*	*03/16/13 09:00*	*03/18/13 15:17*	*1*

Lab Sample ID: LCS 280-165128/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165248 — **Prep Batch: 165128**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	66.0	66.2		ug/Kg		100	54 - 132
PCB-1260	66.0	72.5		ug/Kg		110	62 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*59 - 130*
Tetrachloro-m-xylene	*98*		*53 - 128*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 280-39983-7 MS — **Client Sample ID: SPKN4(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165248 — **Prep Batch: 165128**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		64.7	68.3		ug/Kg		106	54 - 132
PCB-1260	ND		64.7	69.9		ug/Kg		108	62 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*59 - 130*
Tetrachloro-m-xylene	*94*		*53 - 128*

Lab Sample ID: 280-39983-7 MSD — **Client Sample ID: SPKN4(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165248 — **Prep Batch: 165128**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		64.5	68.0		ug/Kg		105	54 - 132	1	36
PCB-1260	ND		64.5	69.9		ug/Kg		108	62 - 129	0	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*59 - 130*
Tetrachloro-m-xylene	*90*		*53 - 128*

Lab Sample ID: MB 280-165550/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165550**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		32	4.9	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1221	ND		45	15	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1232	ND		32	5.0	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1242	ND		32	8.8	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1248	ND		32	5.4	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1254	ND		32	5.3	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1260	ND		32	2.6	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1262	ND		32	11	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
PCB-1268	ND		32	3.8	ug/Kg		03/19/13 14:35	03/21/13 12:10	1
Polychlorinated biphenyls, Total	ND		32	2.6	ug/Kg		03/19/13 14:35	03/21/13 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*59 - 130*	*03/19/13 14:35*	*03/21/13 12:10*	*1*
Tetrachloro-m-xylene	*106*		*53 - 128*	*03/19/13 14:35*	*03/21/13 12:10*	*1*

Lab Sample ID: LCS 280-165550/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165550**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	65.4	68.6		ug/Kg		105	54 - 132
PCB-1260	65.4	73.9		ug/Kg		113	62 - 129

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 280-165550/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165550**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	109		59 - 130
Tetrachloro-m-xylene	105		53 - 128

Lab Sample ID: 280-39983-34 MS — **Client Sample ID: SPKN22(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		65.4	76.8		ug/Kg		118	54 - 132
PCB-1260	11	J	65.4	50.4	F	ug/Kg		60	62 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	48	X	59 - 130
Tetrachloro-m-xylene	116		53 - 128

Lab Sample ID: 280-39983-34 MSD — **Client Sample ID: SPKN22(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		63.1	67.5		ug/Kg		107	54 - 132	13	36
PCB-1260	11	J	63.1	53.5		ug/Kg		67	62 - 129	6	44

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	53	X	59 - 130
Tetrachloro-m-xylene	85		53 - 128

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-165153/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Barium	ND		1.0	0.076	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Cadmium	ND		0.50	0.041	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Chromium	ND		1.5	0.058	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Lead	ND		0.80	0.27	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Selenium	ND		1.3	0.86	mg/Kg		03/19/13 06:30	03/20/13 17:14	1
Silver	ND		1.0	0.16	mg/Kg		03/19/13 06:30	03/20/13 17:14	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-165153/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	99.7		mg/Kg		100	85 - 110
Barium	200	206		mg/Kg		103	87 - 112
Cadmium	10.0	9.51		mg/Kg		95	87 - 110
Chromium	20.0	20.0		mg/Kg		100	84 - 114
Lead	50.0	49.5		mg/Kg		99	86 - 110
Selenium	200	192		mg/Kg		96	83 - 110
Silver	5.00	5.15		mg/Kg		103	87 - 114

Lab Sample ID: 280-39971-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.0		86.2	82.8		mg/Kg		89	76 - 111
Barium	98		172	261		mg/Kg		95	52 - 159
Cadmium	0.71		8.62	7.88		mg/Kg		83	40 - 130
Chromium	11		17.2	29.1		mg/Kg		104	70 - 200
Lead	59		43.1	87.2	F	mg/Kg		65	70 - 200
Selenium	ND		172	148		mg/Kg		86	76 - 104
Silver	0.45	J	4.31	4.88		mg/Kg		103	75 - 141

Lab Sample ID: 280-39971-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165909 — **Prep Batch: 165153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.0		94.3	92.6		mg/Kg		92	76 - 111	11	20
Barium	98		189	292		mg/Kg		103	52 - 159	11	20
Cadmium	0.71		9.43	8.76		mg/Kg		85	40 - 130	11	20
Chromium	11		18.9	31.0		mg/Kg		105	70 - 200	6	20
Lead	59		47.2	93.7		mg/Kg		73	70 - 200	7	20
Selenium	ND		189	166		mg/Kg		88	76 - 104	11	20
Silver	0.45	J	4.72	5.03		mg/Kg		97	75 - 141	3	20

Lab Sample ID: MB 280-165155/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165155**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Barium	0.0760	J	1.0	0.076	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Cadmium	ND		0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Chromium	0.144	J	1.5	0.058	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Lead	ND		0.80	0.27	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Selenium	ND		1.3	0.86	mg/Kg		03/18/13 14:00	03/20/13 01:23	1
Silver	ND		1.0	0.16	mg/Kg		03/18/13 14:00	03/20/13 01:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-165155/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165155**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	91.8		mg/Kg		92	85 - 110
Barium	200	189		mg/Kg		94	87 - 112
Cadmium	10.0	9.53		mg/Kg		95	87 - 110
Chromium	20.0	19.1		mg/Kg		96	84 - 114
Lead	50.0	49.3		mg/Kg		99	86 - 110
Selenium	200	185		mg/Kg		92	83 - 110
Silver	5.00	5.11		mg/Kg		102	87 - 114

Lab Sample ID: 280-39983-8 MS — **Client Sample ID: SPKN5(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165155**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	14		96.2	95.7		mg/Kg		85	76 - 111
Barium	360	B	192	542		mg/Kg		94	52 - 159
Cadmium	2.7		9.62	11.2		mg/Kg		88	40 - 130
Chromium	23	B	19.2	32.7	F	mg/Kg		51	70 - 200
Lead	320		48.1	337	4	mg/Kg		29	70 - 200
Selenium	1.5		192	161		mg/Kg		83	76 - 104
Silver	0.73	J	4.81	5.58		mg/Kg		101	75 - 141

Lab Sample ID: 280-39983-8 MSD — **Client Sample ID: SPKN5(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165155**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	14		93.5	91.5		mg/Kg		83	76 - 111	4	20
Barium	360	B	187	445	F	mg/Kg		45	52 - 159	20	20
Cadmium	2.7		9.35	10.6		mg/Kg		85	40 - 130	5	20
Chromium	23	B	18.7	30.4	F	mg/Kg		40	70 - 200	7	20
Lead	320		46.7	262	4 F	mg/Kg		-130	70 - 200	25	20
Selenium	1.5		187	156		mg/Kg		83	76 - 104	3	20
Silver	0.73	J	4.67	5.15		mg/Kg		95	75 - 141	8	20

Lab Sample ID: MB 280-165157/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Barium	0.158	J	1.0	0.076	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Cadmium	ND		0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Chromium	0.115	J	1.5	0.058	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Lead	ND		0.80	0.27	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Selenium	ND		1.3	0.86	mg/Kg		03/18/13 14:00	03/20/13 02:52	1
Silver	ND		1.0	0.16	mg/Kg		03/18/13 14:00	03/20/13 02:52	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-165157/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	92.4		mg/Kg		92	85 - 110
Barium	200	193		mg/Kg		97	87 - 112
Cadmium	10.0	9.43		mg/Kg		94	87 - 110
Chromium	20.0	19.2		mg/Kg		96	84 - 114
Lead	50.0	49.1		mg/Kg		98	86 - 110
Selenium	200	182		mg/Kg		91	83 - 110
Silver	5.00	5.06		mg/Kg		101	87 - 114

Lab Sample ID: 280-39983-28 MS — **Client Sample ID: SPKN16(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.8		87.0	79.0		mg/Kg		86	76 - 111
Barium	88	B	174	247		mg/Kg		92	52 - 159
Cadmium	0.72		8.70	8.33		mg/Kg		88	40 - 130
Chromium	8.2	B	17.4	24.5		mg/Kg		94	70 - 200
Lead	32		43.5	90.9		mg/Kg		137	70 - 200
Selenium	ND		174	144		mg/Kg		83	76 - 104
Silver	ND		4.35	4.20		mg/Kg		97	75 - 141

Lab Sample ID: 280-39983-28 MSD — **Client Sample ID: SPKN16(8-10)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.8		88.5	81.4		mg/Kg		88	76 - 111	3	20
Barium	88	B	177	246		mg/Kg		89	52 - 159	1	20
Cadmium	0.72		8.85	8.82		mg/Kg		92	40 - 130	6	20
Chromium	8.2	B	17.7	25.2		mg/Kg		96	70 - 200	3	20
Lead	32		44.2	73.8	F	mg/Kg		96	70 - 200	21	20
Selenium	ND		177	150		mg/Kg		85	76 - 104	4	20
Silver	ND		4.42	4.31		mg/Kg		97	75 - 141	2	20

Lab Sample ID: MB 280-165158/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165158**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Barium	0.112	J	1.0	0.076	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Cadmium	ND		0.50	0.041	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Chromium	ND		1.5	0.058	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Lead	ND		0.80	0.27	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Selenium	ND		1.3	0.86	mg/Kg		03/18/13 14:00	03/20/13 04:25	1
Silver	ND		1.0	0.16	mg/Kg		03/18/13 14:00	03/20/13 04:25	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-165158/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165158**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	90.9		mg/Kg		91	85 - 110
Barium	200	189		mg/Kg		95	87 - 112
Cadmium	10.0	9.25		mg/Kg		93	87 - 110
Chromium	20.0	18.8		mg/Kg		94	84 - 114
Lead	50.0	47.7		mg/Kg		95	86 - 110
Selenium	200	182		mg/Kg		91	83 - 110
Silver	5.00	4.99		mg/Kg		100	87 - 114

Lab Sample ID: 280-39983-48 MS — **Client Sample ID: SPKN30(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.6		98.0	85.3		mg/Kg		82	76 - 111
Barium	1100	B	196	664	4	mg/Kg		-225	52 - 159
Cadmium	0.98		9.80	9.16		mg/Kg		83	40 - 130
Chromium	7.6		19.6	25.4		mg/Kg		91	70 - 200
Lead	110		49.0	157		mg/Kg		93	70 - 200
Selenium	1.2		196	160		mg/Kg		81	76 - 104
Silver	ND		4.90	4.61		mg/Kg		94	75 - 141

Lab Sample ID: 280-39983-48 MSD — **Client Sample ID: SPKN30(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165670 — **Prep Batch: 165158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.6		97.1	87.4		mg/Kg		85	76 - 111	2	20
Barium	1100	B	194	627	4	mg/Kg		-246	52 - 159	6	20
Cadmium	0.98		9.71	9.37		mg/Kg		86	40 - 130	2	20
Chromium	7.6		19.4	26.4		mg/Kg		97	70 - 200	4	20
Lead	110		48.5	157		mg/Kg		94	70 - 200	0	20
Selenium	1.2		194	164		mg/Kg		84	76 - 104	2	20
Silver	ND		4.85	4.81		mg/Kg		99	75 - 141	4	20

Lab Sample ID: LB2 280-165161/1-B LB2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165245**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.013	mg/L		03/18/13 14:00	03/20/13 05:45	1

Lab Sample ID: LCS 280-165161/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165245**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.50	5.75		mg/L		105	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-39983-32 MS — **Client Sample ID: SPKN20(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	0.050	J	5.50	5.53		mg/L		100	80 - 120		

Lab Sample ID: 280-39983-32 MSD — **Client Sample ID: SPKN20(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.050	J	5.50	4.77		mg/L		86	80 - 120	15	20

Lab Sample ID: LB 280-165163/1-C LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165250**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.013	mg/L		03/18/13 14:00	03/20/13 04:55	1

Lab Sample ID: LCS 280-165163/2-C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165250**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.50	5.55		mg/L		101	80 - 120		

Lab Sample ID: 280-39983-47 MS — **Client Sample ID: SPKN29(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165250**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	0.29	J	5.50	5.67		mg/L		98	80 - 120		

Lab Sample ID: 280-39983-47 MSD — **Client Sample ID: SPKN29(1-2)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 165670 — **Prep Batch: 165250**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.29	J	5.50	5.34		mg/L		92	80 - 120	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-165402/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165402**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 19:23	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-165402/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165402**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	415		ug/Kg		100	87 - 111

Lab Sample ID: 280-39983-1 MS — **Client Sample ID: SPKN1(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	160		455	570		ug/Kg		89	87 - 111

Lab Sample ID: 280-39983-1 MSD — **Client Sample ID: SPKN1(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	160		439	547		ug/Kg		87	87 - 111	4	20

Lab Sample ID: MB 280-165403/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165403**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 20:30	1

Lab Sample ID: LCS 280-165403/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165403**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	417	407		ug/Kg		98	87 - 111

Lab Sample ID: 280-39983-21 MS — **Client Sample ID: SPKN14(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	100		385	589	F	ug/Kg		126	87 - 111

Lab Sample ID: 280-39983-21 MSD — **Client Sample ID: SPKN14(1-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	100		424	696	F	ug/Kg		140	87 - 111	17	20

Lab Sample ID: MB 280-165406/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165406**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17	5.5	ug/Kg		03/19/13 13:15	03/19/13 21:49	1

QC Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Lab Sample ID: LCS 280-165406/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165406**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			417	387		ug/Kg		93	87 - 111		

Lab Sample ID: 280-39983-41 MS — **Client Sample ID: SPKN25(4-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165406**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		373	378		ug/Kg		101	87 - 111		

Lab Sample ID: 280-39983-41 MSD — **Client Sample ID: SPKN25(4-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165749 — **Prep Batch: 165406**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		431	438		ug/Kg		102	87 - 111	15	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN1(1-2)

Lab Sample ID: 280-39983-1
Date Collected: 03/12/13 13:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.65 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:27	JM	TAL DEN
Total/NA	Prep	3050B			1.06 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:19	HEB	TAL DEN

Client Sample ID: SPKN2(1-2)

Lab Sample ID: 280-39983-2
Date Collected: 03/12/13 13:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.67 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:34	JM	TAL DEN
Total/NA	Prep	3050B			1.03 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:21	HEB	TAL DEN

Client Sample ID: SPKN3(1-2)

Lab Sample ID: 280-39983-3
Date Collected: 03/12/13 11:40
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.2 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 22:46	JS	TAL DEN
Total/NA	Prep	3546	DL		30.2 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM	DL	4			165577	03/20/13 00:28	KGV	TAL DEN
Total/NA	Prep	3546			30.3 g	10000 uL	165550	03/19/13 14:35	SPF	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 12:57	TDJ	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:36	JM	TAL DEN
Total/NA	Prep	3050B			1.18 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:23	HEB	TAL DEN

Client Sample ID: SPKN4(1-2)

Lab Sample ID: 280-39983-4
Date Collected: 03/12/13 08:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.53 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:39	JM	TAL DEN
Total/NA	Prep	3050B			1.01 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:26	HEB	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN4(1-2)D

Lab Sample ID: 280-39983-5

Date Collected: 03/12/13 08:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.53 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:41	JM	TAL DEN
Total/NA	Prep	3050B			1.03 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:28	HEB	TAL DEN

Client Sample ID: SPKN4(4-6)

Lab Sample ID: 280-39983-6

Date Collected: 03/12/13 08:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.0 g	10000 uL	165550	03/19/13 14:35	SPF	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 13:20	TDJ	TAL DEN
Total/NA	Prep	7471A			.60 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:48	JM	TAL DEN
Total/NA	Prep	3050B			1.06 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:30	HEB	TAL DEN

Client Sample ID: SPKN4(8-10)

Lab Sample ID: 280-39983-7

Date Collected: 03/12/13 08:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			31.2 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 16:50	TDJ	TAL DEN
Total/NA	Prep	7471A			.58 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:50	JM	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	165153	03/19/13 06:30	RC	TAL DEN
Total/NA	Analysis	6010B		1			165909	03/20/13 18:33	HEB	TAL DEN

Client Sample ID: SPKN5(1-2)

Lab Sample ID: 280-39983-8

Date Collected: 03/11/13 15:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.02 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:28	JKH	TAL DEN
Total/NA	Prep	7471A			.60 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:53	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN5(4-6)

Lab Sample ID: 280-39983-9

Date Collected: 03/11/13 15:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.5 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 17:59	TDJ	TAL DEN
Total/NA	Prep	3050B			1.06 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:37	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:55	JM	TAL DEN

Client Sample ID: SPKN5(8-10)

Lab Sample ID: 280-39983-10

Date Collected: 03/11/13 15:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.4 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 18:22	TDJ	TAL DEN
Total/NA	Prep	3050B			1.05 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:40	JKH	TAL DEN
Total/NA	Prep	7471A			.62 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 19:57	JM	TAL DEN

Client Sample ID: SPKN6(1-2)

Lab Sample ID: 280-39983-11

Date Collected: 03/11/13 15:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165161	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165245	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:50	JKH	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:51	JKH	TAL DEN
Total/NA	Prep	7471A			.68 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:02	JM	TAL DEN

Client Sample ID: SPKN7(1-2)

Lab Sample ID: 280-39983-12

Date Collected: 03/11/13 13:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165161	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165245	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:52	JKH	TAL DEN
Total/NA	Prep	3050B			1.18 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:54	JKH	TAL DEN
Total/NA	Prep	7471A			.63 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN7(1-2)

Lab Sample ID: 280-39983-12
Date Collected: 03/11/13 13:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1			165749	03/19/13 20:05	JM	TAL DEN

Client Sample ID: SPKN8(1-2)

Lab Sample ID: 280-39983-13
Date Collected: 03/11/13 11:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.8 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 23:12	JS	TAL DEN
Total/NA	Prep	3546			30.0 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 18:46	TDJ	TAL DEN
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:03	JKH	TAL DEN
Total/NA	Prep	3050B			1.04 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:56	JKH	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:07	JM	TAL DEN

Client Sample ID: SPKN8(1-2)D

Lab Sample ID: 280-39983-14
Date Collected: 03/11/13 11:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.4 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/18/13 23:38	JS	TAL DEN
Total/NA	Prep	3546			31.4 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 19:09	TDJ	TAL DEN
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:05	JKH	TAL DEN
Total/NA	Prep	3050B			1.13 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 01:59	JKH	TAL DEN
Total/NA	Prep	7471A			.68 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:09	JM	TAL DEN

Client Sample ID: SPKN9(1-2)

Lab Sample ID: 280-39983-15
Date Collected: 03/11/13 09:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.00 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:01	JKH	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN9(1-2)

Lab Sample ID: 280-39983-15
Date Collected: 03/11/13 09:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.56 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:12	JM	TAL DEN

Client Sample ID: SPKN10(1-2)

Lab Sample ID: 280-39983-16
Date Collected: 03/11/13 09:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:07	JKH	TAL DEN
Total/NA	Prep	3050B			1.12 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:05	JKH	TAL DEN
Total/NA	Prep	7471A			.58 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:19	JM	TAL DEN

Client Sample ID: SPKN10(1-2)D

Lab Sample ID: 280-39983-17
Date Collected: 03/11/13 09:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.13 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:07	JKH	TAL DEN
Total/NA	Prep	7471A			.58 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:21	JM	TAL DEN

Client Sample ID: SPKN11(1-2)

Lab Sample ID: 280-39983-18
Date Collected: 03/11/13 09:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.10 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:10	JKH	TAL DEN
Total/NA	Prep	7471A			.62 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:23	JM	TAL DEN

Client Sample ID: SPKN12(1-2)

Lab Sample ID: 280-39983-19
Date Collected: 03/12/13 13:55
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.03 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:12	JKH	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN12(1-2)

Lab Sample ID: 280-39983-19

Date Collected: 03/12/13 13:55
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.54 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:26	JM	TAL DEN

Client Sample ID: SPKN13(1-2)

Lab Sample ID: 280-39983-20

Date Collected: 03/12/13 14:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165161	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165245	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:54	JKH	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:24	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165402	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:28	JM	TAL DEN

Client Sample ID: SPKN14(1-2)

Lab Sample ID: 280-39983-21

Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.03 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:26	JKH	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:35	JM	TAL DEN

Client Sample ID: SPKN14(1-2)D

Lab Sample ID: 280-39983-22

Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.10 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:29	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:49	JM	TAL DEN

Client Sample ID: SPKN15(1-2)

Lab Sample ID: 280-39983-23

Date Collected: 03/12/13 09:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.09 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:31	JKH	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN15(1-2)

Lab Sample ID: 280-39983-23

Date Collected: 03/12/13 09:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.61 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:51	JM	TAL DEN

Client Sample ID: SPKN15(4-6)

Lab Sample ID: 280-39983-24

Date Collected: 03/12/13 09:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			31.7 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 19:32	TDJ	TAL DEN
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:19	JKH	TAL DEN
Total/NA	Prep	3050B			1.01 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:34	JKH	TAL DEN
Total/NA	Prep	7471A			.60 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:54	JM	TAL DEN

Client Sample ID: SPKN15(8-10)

Lab Sample ID: 280-39983-25

Date Collected: 03/12/13 09:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			31.5 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 19:55	TDJ	TAL DEN
Total/NA	Prep	3050B			1.14 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:36	JKH	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:56	JM	TAL DEN

Client Sample ID: SPKN16(1-2)

Lab Sample ID: 280-39983-26

Date Collected: 03/11/13 16:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165161	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165245	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:57	JKH	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:38	JKH	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 20:58	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN16(4-6)

Lab Sample ID: 280-39983-27

Date Collected: 03/11/13 16:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.5 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 20:18	TDJ	TAL DEN
Total/NA	Prep	3050B			1.07 g	100 mL	165155	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:40	JKH	TAL DEN
Total/NA	Prep	7471A			.59 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:01	JM	TAL DEN

Client Sample ID: SPKN16(8-10)

Lab Sample ID: 280-39983-28

Date Collected: 03/11/13 16:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.9 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 20:41	TDJ	TAL DEN
Total/NA	Prep	3050B			1.05 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 02:57	JKH	TAL DEN
Total/NA	Prep	7471A			.69 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:03	JM	TAL DEN

Client Sample ID: SPKN17(1-2)

Lab Sample ID: 280-39983-29

Date Collected: 03/11/13 15:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.03 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:06	JKH	TAL DEN
Total/NA	Prep	7471A			.56 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:05	JM	TAL DEN

Client Sample ID: SPKN18(1-2)

Lab Sample ID: 280-39983-30

Date Collected: 03/11/13 13:20
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.17 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:08	JKH	TAL DEN
Total/NA	Prep	7471A			.70 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:08	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN19(1-2)

Lab Sample ID: 280-39983-31

Date Collected: 03/11/13 11:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.00 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:20	JKH	TAL DEN
Total/NA	Prep	7471A			.58 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		5			165749	03/19/13 23:35	JM	TAL DEN

Client Sample ID: SPKN20(1-2)

Lab Sample ID: 280-39983-32

Date Collected: 03/11/13 10:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165161	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165245	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:59	JKH	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:23	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:23	JM	TAL DEN

Client Sample ID: SPKN21(1-2)

Lab Sample ID: 280-39983-33

Date Collected: 03/11/13 10:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.16 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:26	JKH	TAL DEN
Total/NA	Prep	7471A			.57 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		5			165749	03/19/13 23:37	JM	TAL DEN

Client Sample ID: SPKN22(1-2)

Lab Sample ID: 280-39983-34

Date Collected: 03/12/13 17:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.8 g	1000 uL	165131	03/16/13 08:50	LC	TAL DEN
Total/NA	Analysis	8270C SIM		1			165375	03/19/13 00:04	JS	TAL DEN
Total/NA	Prep	3546			30.4 g	10000 uL	165550	03/19/13 14:35	SPF	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 13:43	TDJ	TAL DEN
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN
TCLP	Analysis	6010B		1			165670	03/20/13 05:21	JKH	TAL DEN
Total/NA	Prep	3050B			1.14 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:29	JKH	TAL DEN
Total/NA	Prep	7471A			.58 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN

Client Sample ID: SPKN22(1-2)

Lab Sample ID: 280-39983-34

Date Collected: 03/12/13 17:10

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1			165749	03/19/13 21:33	JM	TAL DEN

Client Sample ID: SPKN23(1-2)

Lab Sample ID: 280-39983-35

Date Collected: 03/12/13 15:30

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.06 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:31	JKH	TAL DEN
Total/NA	Prep	7471A			.59 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:35	JM	TAL DEN

Client Sample ID: SPKN23(8-9)

Lab Sample ID: 280-39983-36

Date Collected: 03/12/13 15:40

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:34	JKH	TAL DEN
Total/NA	Prep	7471A			.62 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:37	JM	TAL DEN

Client Sample ID: SPKN24(1-2)

Lab Sample ID: 280-39983-37

Date Collected: 03/12/13 10:05

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.11 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:36	JKH	TAL DEN
Total/NA	Prep	7471A			.61 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:40	JM	TAL DEN

Client Sample ID: SPKN24(4-6)

Lab Sample ID: 280-39983-38

Date Collected: 03/12/13 10:05

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.4 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 21:28	TDJ	TAL DEN
Total/NA	Prep	3050B			1.05 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:38	JKH	TAL DEN
Total/NA	Prep	7471A			.65 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:42	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN24(8-10)

Lab Sample ID: 280-39983-39
Date Collected: 03/12/13 10:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			31.6 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 21:51	TDJ	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:41	JKH	TAL DEN
Total/NA	Prep	7471A			.59 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:44	JM	TAL DEN

Client Sample ID: SPKN25(1-2)

Lab Sample ID: 280-39983-40
Date Collected: 03/12/13 09:30
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.02 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:52	JKH	TAL DEN
Total/NA	Prep	7471A			.64 g	50 mL	165403	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:47	JM	TAL DEN

Client Sample ID: SPKN25(4-6)

Lab Sample ID: 280-39983-41
Date Collected: 03/12/13 09:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.7 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 22:14	TDJ	TAL DEN
Total/NA	Prep	3050B			1.05 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:56	JKH	TAL DEN
Total/NA	Prep	7471A			.60 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 21:58	JM	TAL DEN

Client Sample ID: SPKN25(8-10)

Lab Sample ID: 280-39983-42
Date Collected: 03/12/13 09:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.8 g	10000 uL	165128	03/16/13 09:00	LC	TAL DEN
Total/NA	Analysis	8082		1			165248	03/18/13 22:37	TDJ	TAL DEN
Total/NA	Prep	3050B			1.14 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 03:58	JKH	TAL DEN
Total/NA	Prep	7471A			.63 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 22:05	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN26(1-2)

Lab Sample ID: 280-39983-43
Date Collected: 03/11/13 14:35
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.08 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:01	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 22:07	JM	TAL DEN

Client Sample ID: SPKN26(7-8)

Lab Sample ID: 280-39983-44
Date Collected: 03/11/13 14:15
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.07 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:04	JKH	TAL DEN
Total/NA	Prep	7471A			.64 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 22:10	JM	TAL DEN

Client Sample ID: SPKN27(1-2)

Lab Sample ID: 280-39983-45
Date Collected: 03/11/13 13:45
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.13 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:07	JKH	TAL DEN
Total/NA	Prep	7471A			.63 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		5			165749	03/19/13 23:39	JM	TAL DEN

Client Sample ID: SPKN28(1-2)

Lab Sample ID: 280-39983-46
Date Collected: 03/11/13 12:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.05 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:10	JKH	TAL DEN
Total/NA	Prep	7471A			.57 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		5			165749	03/19/13 23:42	JM	TAL DEN
Total/NA	Analysis	6010B		100			165754	03/20/13 12:32	HEB	TAL DEN

Client Sample ID: SPKN29(1-2)

Lab Sample ID: 280-39983-47
Date Collected: 03/11/13 10:20
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	165163	03/16/13 14:13	KS	TAL DEN
TCLP	Prep	3010A			10 mL	50 mL	165250	03/18/13 14:00	RC	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-39983-1

Client Sample ID: SPKN29(1-2)

Lab Sample ID: 280-39983-47

Date Collected: 03/11/13 10:20
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1			165670	03/20/13 05:24	JKH	TAL DEN
Total/NA	Prep	3050B			1.12 g	100 mL	165157	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:13	JKH	TAL DEN
Total/NA	Prep	7471A			.66 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 22:28	JM	TAL DEN

Client Sample ID: SPKN30(1-2)

Lab Sample ID: 280-39983-48

Date Collected: 03/11/13 10:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.10 g	100 mL	165158	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:30	JKH	TAL DEN
Total/NA	Prep	7471A			.59 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 23:14	JM	TAL DEN

Client Sample ID: SPKN31(1-2)

Lab Sample ID: 280-39983-49

Date Collected: 03/11/13 10:25
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	100 mL	165158	03/18/13 14:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			165670	03/20/13 04:39	JKH	TAL DEN
Total/NA	Prep	7471A			.61 g	50 mL	165406	03/19/13 13:15	JM	TAL DEN
Total/NA	Analysis	7471A		1			165749	03/19/13 23:16	JM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Omyn	Date: 3/12/2013	Chain of Custody Number: 172732
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5520	Lab Number:	Page 1 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Omyn	Lab Contact: D. Rydberg	
Project Name and Location (State): Spokeen Metal	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: WA-001925-0001-10ttO			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
SPKN1 (1-2)	2/12/2013	13:30				X	1						X				* Possible Asbestos
SPKN2 (1-2)	2/12/2013	13:05					1						X				in some soil
SPKN3 (1-2)	2/12/2013	11:40					3						X		X	X	samples collected
SPKN4 (1-2)	2/12/2013	08:45					1						X				on Spokeen Metal
SPKN4 (1-2) D	2/12/2013	08:45					1						X				property.
SPKN4 (4-6)	2/12/2013	08:35					2						X		X		
SPKN4 (8-10)	2/12/2013	08:35					2						X		X		
SPKN5 (1-2)	2/11/2013	15:45					1						X				
SPKN5 (4-6)	2/11/2013	15:45					2						X		X		
SPKN5 (8-10)	2/11/2013	15:45					2						X		X		
SPKN6 (1-2)	2/11/2013	15:00					2						X	X			
SPKN7 (1-2)	2/11/2013	13:10					2						X	X			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3.14.13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umyn	Date: 3/12/2013	Chain of Custody Number: 172734
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 2 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: D. Rydberg	
Project Name and Location (State): Speken Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1010			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
SPKN8(1-2)	2/11/2013	11:15				X	4						X	X	X	X	
SPKN8(1-2)D	2/11/2013	11:15					4						X	X	X	X	
SPKN9(1-2)	2/11/2013	09:50					1						X				
SPKN10(1-2)	2/11/2013	09:35					2						X	X			
SPKN10(1-2)D	2/11/2013	09:35					1						X				
SPKN11(1-2)	2/11/2013	09:30					1						X				
SPKN12(1-2)	2/12/2013	13:55					1						X				
SPKN13(1-2)	2/12/2013	14:15					2						X	X			
SPKN14(1-2)	2/12/2013	10:50					1						X				
SPKN14(1-2)D	2/12/2013	10:50					1						X				
SPKN15(1-2)	2/12/2013	09:10					1						X				
SPKN15(4-6)	2/12/2013	09:15					3						X	X	X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172735
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 3 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: D. Rydberg	
Project Name and Location (State): WA-001925-0001-1040	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: Spokane Metal			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
~~Spkn~~ SPKN 15 (8-10)	2/12/2013	09:15				X	2						X		X		
SPKN 16 (1-2)	2/12/2013	16:05				↓	2						X	X			
SPKN 16 (4-6)	2/12/2013	16:00				↓	2						X		X		
SPKN 16 (8-10)	2/12/2013	16:00				↓	2						X		X		
SPKN 17 (1-2)	2/11/2013	15:15				↓	1						X				
SPKN 18 (1-2)	2/11/2013	13:20				↓	1						X				
SPKN 19 (1-2)	2/11/2013	11:45				↓	1						X				
SPKN 20 (1-2)	2/11/2013	10:45				↓	2						X	X			
SPKN 21 (1-2)	2/11/2013	10:00				↓	1						X				
SPKN 22 (1-2)	2/12/2013	17:10				↓	4						X	X	X	X	
SPKN 23 (1-2)	2/12/2013	15:30				↓	1						X				
SPKN 23 (8-9)	2/12/2013	15:40				↓	1						X				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172728
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 4 of 4
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: B. Rydberg	
Project Name and Location (State): Speken Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-10tto			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	TCLP Lead	PCBs	PAHs	Special Instructions/ Conditions of Receipt
SPKN24 (1-2)	2/12/2013	10:05				X	1						X				
SPKN24 (4-6)	2/12/2013	10:05				X	2						X		X		
SPKN24 (8-10)	2/12/2013	10:05				X	2						X		X		
SPKN25 (1-2)	2/12/2013	09:30				X	1						X				
SPKN25 (4-6)	2/12/2013	09:35				X	2						X		X		
SPKN25 (8-10)	2/12/2013	09:35				X	2						X		X		
SPKN26 (1-2)	2/11/2013	14:35				X	1						X				
SPKN26 (7-8)	2/11/2013	14:15				X	1						X				
SPKN27 (1-2)	2/11/2013	13:45				X	1						X				
SPKN28 (1-2)	2/11/2013	12:05				X	1						X				
SPKN29 (1-2)	2/11/2013	10:20				X	2						X	X			
SPKN30 (1-2)	2/11/2013	10:05				X	1						X				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ 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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/13	1620	1. Received By	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/12/2013	Chain of Custody Number: 172729
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 5 of 5
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: D. Rydberg	
Project Name and Location (State): Spokane Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1080			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): Metals	TCLP Lead	PCBs	PAHs									Special Instructions/ Conditions of Receipt
SPKN31 (1-2)	3/11/2013	10:25				X		1							X												

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/14/13	1620	1. Received By: [signature]	3/14/13	1620
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-39983-1

Login Number: 39983

List Source: TestAmerica Denver

List Number: 1

Creator: Laspe, Laura

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").	N/A	
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: 280-39968-1
Client Project/Site: Wagner Rentals

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/20/2013 2:44:49 PM

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

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.
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-39968-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Environmental Scientist & Engineering

Project: Wagner Rentals

Report Number: 280-39968-1

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 the TestAmerica Denver laboratory on March 14, 2013. The samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4 degrees Celsius.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples WAMW3(4-6) (280-39968-1), WAMW3(7-8) (280-39968-2), WAMW3(7-8)D (280-39968-3), WAMW1(5-6) (280-39968-4), WAMW1(10-12) (280-39968-5), WAMW2(0.5-10) (280-39968-6) and WAMW2(5-6) (280-39968-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B.

The percent recoveries for surrogate Dibromofluoromethane failed the surrogate recovery criteria low in samples WAMW2(0.5-10) (280-39968-6) and WAMW2(5-6) (280-39968-7). Evidence of matrix interference is present. Sample pH was noted to be "pH10" after analysis. High pH is known to affect the recovery of surrogate Dibromomfluoromethane therefore, re-analysis was not performed. Data was qualified and reported. All other surrogates were in control.

Several analytes were detected in method blank MB 280-165355/1-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". Because the concentrations in the method blank were not present at levels greater than one half the reporting limit, corrective action was deemed unnecessary. Usability of the sample data is not compromised. If the associated sample 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 batch 280-165330. This MS/MSD batch was performed on a sample from anothe client and/or job. 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 VOC analyses.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

Client Sample ID: WAMW3(4-6) — Lab Sample ID: 280-39968-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.36	J B	4.3	0.20	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.4	J B	4.3	1.4	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW3(7-8) — Lab Sample ID: 280-39968-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J B	18	4.7	ug/Kg	1		8260B	Total/NA
Bromoform	0.32	J B	4.4	0.20	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.5	J B	4.4	1.4	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	1.0	J	4.4	0.52	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW3(7-8)D — Lab Sample ID: 280-39968-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.33	J B	4.9	0.22	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.7	J B	4.9	1.6	ug/Kg	1		8260B	Total/NA
Toluene	2.0	J	4.9	0.67	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW1(5-6) — Lab Sample ID: 280-39968-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.29	J B	4.3	0.20	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.6	J B	4.3	1.4	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW1(10-12) — Lab Sample ID: 280-39968-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J B	18	4.7	ug/Kg	1		8260B	Total/NA
Bromoform	0.29	J B	4.4	0.20	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.9	J B	4.4	1.4	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW2(0.5-10) — Lab Sample ID: 280-39968-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24	B	21	5.6	ug/Kg	1		8260B	Total/NA
Bromoform	0.30	J B	5.2	0.24	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	3.3	J B	21	1.9	ug/Kg	1		8260B	Total/NA
Methylene Chloride	2.2	J B	5.2	1.7	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	1.2	J	5.2	0.62	ug/Kg	1		8260B	Total/NA

Client Sample ID: WAMW2(5-6) — Lab Sample ID: 280-39968-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J B	20	5.3	ug/Kg	1		8260B	Total/NA
Bromoform	0.23	J B	4.9	0.22	ug/Kg	1		8260B	Total/NA
Methylene Chloride	1.6	J B	4.9	1.6	ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-39968-1	WAMW3(4-6)	Solid	03/13/13 11:25	03/14/13 16:20
280-39968-2	WAMW3(7-8)	Solid	03/13/13 11:25	03/14/13 16:20
280-39968-3	WAMW3(7-8)D	Solid	03/13/13 00:00	03/14/13 16:20
280-39968-4	WAMW1(5-6)	Solid	03/14/13 09:00	03/14/13 16:20
280-39968-5	WAMW1(10-12)	Solid	03/14/13 09:10	03/14/13 16:20
280-39968-6	WAMW2(0.5-10)	Solid	03/14/13 10:05	03/14/13 16:20
280-39968-7	WAMW2(5-6)	Solid	03/14/13 10:20	03/14/13 16:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WAMW3(4-6)
Date Collected: 03/13/13 11:25
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39968-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		17	4.6	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Benzene	ND		4.3	0.40	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Bromoform	**0.36**	**J B**	4.3	0.20	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Bromomethane	ND		8.5	0.43	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
2-Butanone (MEK)	ND		17	1.6	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Carbon disulfide	ND		4.3	0.36	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Carbon tetrachloride	ND		4.3	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chlorobenzene	ND		4.3	0.46	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chlorobromomethane	ND		4.3	0.26	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chlorodibromomethane	ND		4.3	0.49	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chloroethane	ND		8.5	0.76	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chloroform	ND		8.5	0.25	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Chloromethane	ND		8.5	0.66	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
cis-1,2-Dichloroethene	ND		2.1	0.48	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
cis-1,3-Dichloropropene	ND		4.3	1.1	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Cyclohexane	ND		4.3	0.34	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2-Dibromo-3-Chloropropane	ND		8.5	0.51	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2-Dibromoethane	ND		4.3	0.44	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2-Dichlorobenzene	ND		4.3	0.38	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,3-Dichlorobenzene	ND		4.3	0.41	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,4-Dichlorobenzene	ND		4.3	0.67	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Dichlorobromomethane	ND		4.3	0.19	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Dichlorodifluoromethane	ND		8.5	0.44	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1-Dichloroethane	ND		4.3	0.18	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2-Dichloroethane	ND		4.3	0.60	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1-Dichloroethene	ND		4.3	0.50	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2-Dichloropropane	ND		4.3	0.47	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,4-Dioxane	ND		430	48	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Ethylbenzene	ND		4.3	0.57	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
2-Hexanone	ND		17	4.2	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Isopropylbenzene	ND		4.3	0.50	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Methyl acetate	ND		8.5	2.3	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Methylcyclohexane	ND		4.3	0.36	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Methylene Chloride	**1.4**	**J B**	4.3	1.4	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		17	3.7	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Methyl tert-butyl ether	ND		17	0.29	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
m-Xylene & p-Xylene	ND		2.1	0.89	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
o-Xylene	ND		2.1	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Styrene	ND		4.3	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Tetrachloroethene	ND		4.3	0.50	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Toluene	ND		4.3	0.59	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
trans-1,2-Dichloroethene	ND		2.1	0.33	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
trans-1,3-Dichloropropene	ND		4.3	0.57	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2,3-Trichlorobenzene	ND		4.3	0.64	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,2,4-Trichlorobenzene	ND		4.3	0.62	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1,1-Trichloroethane	ND		4.3	0.44	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1,2-Trichloroethane	ND		4.3	0.75	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Trichloroethene	ND		4.3	0.20	ug/Kg		03/18/13 06:00	03/18/13 16:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW3(4-6) **Lab Sample ID: 280-39968-1**
Date Collected: 03/13/13 11:25 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		8.5	0.89	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
1,1,2-Trichlorotrifluoroethane	ND		17	0.38	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Vinyl chloride	ND		4.3	1.1	ug/Kg		03/18/13 06:00	03/18/13 16:27	1
Xylenes, Total	ND		2.1	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*03/18/13 06:00*	*03/18/13 16:27*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 121*	*03/18/13 06:00*	*03/18/13 16:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*03/18/13 06:00*	*03/18/13 16:27*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*03/18/13 06:00*	*03/18/13 16:27*	*1*

Client Sample ID: WAMW3(7-8) **Lab Sample ID: 280-39968-2**
Date Collected: 03/13/13 11:25 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.0**	**J B**	18	4.7	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Benzene	ND		4.4	0.41	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Bromoform	**0.32**	**J B**	4.4	0.20	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Bromomethane	ND		8.8	0.44	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
2-Butanone (MEK)	ND		18	1.6	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Carbon disulfide	ND		4.4	0.37	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Carbon tetrachloride	ND		4.4	0.55	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chlorobenzene	ND		4.4	0.47	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chlorobromomethane	ND		4.4	0.26	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chlorodibromomethane	ND		4.4	0.50	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chloroethane	ND		8.8	0.78	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chloroform	ND		8.8	0.25	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Chloromethane	ND		8.8	0.68	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
cis-1,2-Dichloroethene	ND		2.2	0.49	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
cis-1,3-Dichloropropene	ND		4.4	1.1	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Cyclohexane	ND		4.4	0.35	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2-Dibromo-3-Chloropropane	ND		8.8	0.53	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2-Dibromoethane	ND		4.4	0.46	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2-Dichlorobenzene	ND		4.4	0.39	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,3-Dichlorobenzene	ND		4.4	0.42	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,4-Dichlorobenzene	ND		4.4	0.68	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Dichlorobromomethane	ND		4.4	0.19	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Dichlorodifluoromethane	ND		8.8	0.46	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1-Dichloroethane	ND		4.4	0.18	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2-Dichloroethane	ND		4.4	0.61	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1-Dichloroethene	ND		4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2-Dichloropropane	ND		4.4	0.48	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,4-Dioxane	ND		440	49	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Ethylbenzene	ND		4.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
2-Hexanone	ND		18	4.3	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Isopropylbenzene	ND		4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Methyl acetate	ND		8.8	2.4	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Methylcyclohexane	ND		4.4	0.37	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Methylene Chloride	**1.5**	**J B**	4.4	1.4	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		18	3.8	ug/Kg		03/18/13 06:00	03/18/13 16:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW3(7-8) — **Lab Sample ID: 280-39968-2**
Date Collected: 03/13/13 11:25 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		18	0.30	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
m-Xylene & p-Xylene	ND		2.2	0.91	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
o-Xylene	ND		2.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Styrene	ND		4.4	0.55	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Tetrachloroethene	**1.0**	**J**	4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Toluene	ND		4.4	0.61	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
trans-1,2-Dichloroethene	ND		2.2	0.34	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
trans-1,3-Dichloropropene	ND		4.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2,3-Trichlorobenzene	ND		4.4	0.66	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,2,4-Trichlorobenzene	ND		4.4	0.64	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1,1-Trichloroethane	ND		4.4	0.46	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1,2-Trichloroethane	ND		4.4	0.77	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Trichloroethene	ND		4.4	0.20	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Trichlorofluoromethane	ND		8.8	0.91	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.39	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Vinyl chloride	ND		4.4	1.2	ug/Kg		03/18/13 06:00	03/18/13 16:48	1
Xylenes, Total	ND		2.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*76 - 127*	*03/18/13 06:00*	*03/18/13 16:48*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*03/18/13 06:00*	*03/18/13 16:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*03/18/13 06:00*	*03/18/13 16:48*	*1*
Toluene-d8 (Surr)	*109*		*80 - 126*	*03/18/13 06:00*	*03/18/13 16:48*	*1*

Client Sample ID: WAMW3(7-8)D — **Lab Sample ID: 280-39968-3**
Date Collected: 03/13/13 00:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		19	5.2	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Benzene	ND		4.9	0.46	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Bromoform	**0.33**	**J B**	4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Bromomethane	ND		9.7	0.49	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
2-Butanone (MEK)	ND		19	1.8	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Carbon disulfide	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Carbon tetrachloride	ND		4.9	0.61	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chlorobenzene	ND		4.9	0.52	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chlorobromomethane	ND		4.9	0.29	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chlorodibromomethane	ND		4.9	0.55	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chloroethane	ND		9.7	0.86	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chloroform	ND		9.7	0.28	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Chloromethane	ND		9.7	0.75	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
cis-1,2-Dichloroethene	ND		2.4	0.54	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
cis-1,3-Dichloropropene	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Cyclohexane	ND		4.9	0.39	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2-Dibromo-3-Chloropropane	ND		9.7	0.58	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2-Dibromoethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2-Dichlorobenzene	ND		4.9	0.44	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,3-Dichlorobenzene	ND		4.9	0.47	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,4-Dichlorobenzene	ND		4.9	0.76	ug/Kg		03/18/13 06:00	03/18/13 17:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW3(7-8)D — **Lab Sample ID: 280-39968-3**
Date Collected: 03/13/13 00:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		4.9	0.21	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Dichlorodifluoromethane	ND		9.7	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1-Dichloroethane	ND		4.9	0.20	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2-Dichloroethane	ND		4.9	0.68	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1-Dichloroethene	ND		4.9	0.57	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2-Dichloropropane	ND		4.9	0.53	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,4-Dioxane	ND		490	54	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Ethylbenzene	ND		4.9	0.65	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
2-Hexanone	ND		19	4.8	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Isopropylbenzene	ND		4.9	0.57	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Methyl acetate	ND		9.7	2.7	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Methylcyclohexane	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Methylene Chloride	**1.7**	**J B**	4.9	1.6	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		19	4.2	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Methyl tert-butyl ether	ND		19	0.33	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
m-Xylene & p-Xylene	ND		2.4	1.0	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
o-Xylene	ND		2.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Styrene	ND		4.9	0.61	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.59	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Tetrachloroethene	ND		4.9	0.57	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Toluene	**2.0**	**J**	4.9	0.67	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
trans-1,2-Dichloroethene	ND		2.4	0.38	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
trans-1,3-Dichloropropene	ND		4.9	0.65	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2,3-Trichlorobenzene	ND		4.9	0.73	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,2,4-Trichlorobenzene	ND		4.9	0.71	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1,1-Trichloroethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1,2-Trichloroethane	ND		4.9	0.85	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Trichloroethene	ND		4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Trichlorofluoromethane	ND		9.7	1.0	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.44	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Vinyl chloride	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 17:10	1
Xylenes, Total	ND		2.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*76 - 127*	*03/18/13 06:00*	*03/18/13 17:10*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 121*	*03/18/13 06:00*	*03/18/13 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*03/18/13 06:00*	*03/18/13 17:10*	*1*
Toluene-d8 (Surr)	*113*		*80 - 126*	*03/18/13 06:00*	*03/18/13 17:10*	*1*

Client Sample ID: WAMW1(5-6) — **Lab Sample ID: 280-39968-4**
Date Collected: 03/14/13 09:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		17	4.7	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Benzene	ND		4.3	0.41	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Bromoform	**0.29**	**J B**	4.3	0.20	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Bromomethane	ND		8.7	0.43	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
2-Butanone (MEK)	ND		17	1.6	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Carbon disulfide	ND		4.3	0.36	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Carbon tetrachloride	ND		4.3	0.55	ug/Kg		03/18/13 06:00	03/18/13 17:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW1(5-6)
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39968-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		4.3	0.47	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Chlorobromomethane	ND		4.3	0.26	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Chlorodibromomethane	ND		4.3	0.50	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Chloroethane	ND		8.7	0.77	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Chloroform	ND		8.7	0.25	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Chloromethane	ND		8.7	0.67	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
cis-1,2-Dichloroethene	ND		2.2	0.49	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
cis-1,3-Dichloropropene	ND		4.3	1.1	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Cyclohexane	ND		4.3	0.35	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2-Dibromo-3-Chloropropane	ND		8.7	0.52	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2-Dibromoethane	ND		4.3	0.45	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2-Dichlorobenzene	ND		4.3	0.39	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,3-Dichlorobenzene	ND		4.3	0.42	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,4-Dichlorobenzene	ND		4.3	0.68	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Dichlorobromomethane	ND		4.3	0.19	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Dichlorodifluoromethane	ND		8.7	0.45	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1-Dichloroethane	ND		4.3	0.18	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2-Dichloroethane	ND		4.3	0.61	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1-Dichloroethene	ND		4.3	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2-Dichloropropane	ND		4.3	0.48	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,4-Dioxane	ND		430	49	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Ethylbenzene	ND		4.3	0.58	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
2-Hexanone	ND		17	4.2	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Isopropylbenzene	ND		4.3	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Methyl acetate	ND		8.7	2.4	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Methylcyclohexane	ND		4.3	0.36	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Methylene Chloride	**1.6**	**J B**	4.3	1.4	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		17	3.8	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Methyl tert-butyl ether	ND		17	0.30	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
m-Xylene & p-Xylene	ND		2.2	0.90	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
o-Xylene	ND		2.2	0.53	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Styrene	ND		4.3	0.55	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.53	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Tetrachloroethene	ND		4.3	0.51	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Toluene	ND		4.3	0.60	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
trans-1,2-Dichloroethene	ND		2.2	0.34	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
trans-1,3-Dichloropropene	ND		4.3	0.58	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2,3-Trichlorobenzene	ND		4.3	0.65	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,2,4-Trichlorobenzene	ND		4.3	0.63	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1,1-Trichloroethane	ND		4.3	0.45	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1,2-Trichloroethane	ND		4.3	0.76	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Trichloroethene	ND		4.3	0.20	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Trichlorofluoromethane	ND		8.7	0.90	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
1,1,2-Trichlorotrifluoroethane	ND		17	0.39	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Vinyl chloride	ND		4.3	1.2	ug/Kg		03/18/13 06:00	03/18/13 17:32	1
Xylenes, Total	ND		2.2	0.53	ug/Kg		03/18/13 06:00	03/18/13 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*03/18/13 06:00*	*03/18/13 17:32*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*03/18/13 06:00*	*03/18/13 17:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW1(5-6) — **Lab Sample ID: 280-39968-4**
Date Collected: 03/14/13 09:00 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*03/18/13 06:00*	*03/18/13 17:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 126*	*03/18/13 06:00*	*03/18/13 17:32*	*1*

Client Sample ID: WAMW1(10-12) — **Lab Sample ID: 280-39968-5**
Date Collected: 03/14/13 09:10 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.2**	**J B**	18	4.7	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Benzene	ND		4.4	0.41	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Bromoform	**0.29**	**J B**	4.4	0.20	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Bromomethane	ND		8.8	0.44	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
2-Butanone (MEK)	ND		18	1.6	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Carbon disulfide	ND		4.4	0.37	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Carbon tetrachloride	ND		4.4	0.55	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chlorobenzene	ND		4.4	0.47	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chlorobromomethane	ND		4.4	0.26	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chlorodibromomethane	ND		4.4	0.50	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chloroethane	ND		8.8	0.78	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chloroform	ND		8.8	0.25	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Chloromethane	ND		8.8	0.68	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
cis-1,2-Dichloroethene	ND		2.2	0.49	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
cis-1,3-Dichloropropene	ND		4.4	1.1	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Cyclohexane	ND		4.4	0.35	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2-Dibromo-3-Chloropropane	ND		8.8	0.53	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2-Dibromoethane	ND		4.4	0.46	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2-Dichlorobenzene	ND		4.4	0.40	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,3-Dichlorobenzene	ND		4.4	0.42	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,4-Dichlorobenzene	ND		4.4	0.69	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Dichlorobromomethane	ND		4.4	0.19	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Dichlorodifluoromethane	ND		8.8	0.46	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1-Dichloroethane	ND		4.4	0.18	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2-Dichloroethane	ND		4.4	0.62	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1-Dichloroethene	ND		4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2-Dichloropropane	ND		4.4	0.48	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,4-Dioxane	ND		440	49	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Ethylbenzene	ND		4.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
2-Hexanone	ND		18	4.3	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Isopropylbenzene	ND		4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Methyl acetate	ND		8.8	2.4	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Methylcyclohexane	ND		4.4	0.37	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Methylene Chloride	**1.9**	**J B**	4.4	1.4	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		18	3.8	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Methyl tert-butyl ether	ND		18	0.30	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
m-Xylene & p-Xylene	ND		2.2	0.91	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
o-Xylene	ND		2.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Styrene	ND		4.4	0.55	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.54	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Tetrachloroethene	ND		4.4	0.52	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Toluene	ND		4.4	0.61	ug/Kg		03/18/13 06:00	03/18/13 17:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW1(10-12) **Lab Sample ID: 280-39968-5**
Date Collected: 03/14/13 09:10 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.2	0.34	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
trans-1,3-Dichloropropene	ND		4.4	0.59	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2,3-Trichlorobenzene	ND		4.4	0.66	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,2,4-Trichlorobenzene	ND		4.4	0.64	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1,1-Trichloroethane	ND		4.4	0.46	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1,2-Trichloroethane	ND		4.4	0.77	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Trichloroethene	ND		4.4	0.20	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Trichlorofluoromethane	ND		8.8	0.91	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.40	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Vinyl chloride	ND		4.4	1.2	ug/Kg		03/18/13 06:00	03/18/13 17:53	1
Xylenes, Total	ND		2.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*03/18/13 06:00*	*03/18/13 17:53*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*03/18/13 06:00*	*03/18/13 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*03/18/13 06:00*	*03/18/13 17:53*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*03/18/13 06:00*	*03/18/13 17:53*	*1*

Client Sample ID: WAMW2(0.5-10) **Lab Sample ID: 280-39968-6**
Date Collected: 03/14/13 10:05 **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**24**	**B**	21	5.6	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Benzene	ND		5.2	0.49	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Bromoform	**0.30**	**J B**	5.2	0.24	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Bromomethane	ND		10	0.52	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
2-Butanone (MEK)	**3.3**	**J B**	21	1.9	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Carbon disulfide	ND		5.2	0.44	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Carbon tetrachloride	ND		5.2	0.66	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chlorobenzene	ND		5.2	0.56	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chlorobromomethane	ND		5.2	0.31	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chlorodibromomethane	ND		5.2	0.60	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chloroethane	ND		10	0.93	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chloroform	ND		10	0.30	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Chloromethane	ND		10	0.81	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
cis-1,2-Dichloroethene	ND		2.6	0.59	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
cis-1,3-Dichloropropene	ND		5.2	1.3	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Cyclohexane	ND		5.2	0.42	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2-Dibromo-3-Chloropropane	ND		10	0.63	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2-Dibromoethane	ND		5.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2-Dichlorobenzene	ND		5.2	0.47	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,3-Dichlorobenzene	ND		5.2	0.50	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,4-Dichlorobenzene	ND		5.2	0.82	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Dichlorobromomethane	ND		5.2	0.23	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Dichlorodifluoromethane	ND		10	0.54	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1-Dichloroethane	ND		5.2	0.22	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2-Dichloroethane	ND		5.2	0.73	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1-Dichloroethene	ND		5.2	0.62	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2-Dichloropropane	ND		5.2	0.58	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,4-Dioxane	ND		520	59	ug/Kg		03/18/13 06:00	03/18/13 18:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW2(0.5-10) — **Lab Sample ID: 280-39968-6**
Date Collected: 03/14/13 10:05 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.70	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
2-Hexanone	ND		21	5.1	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Isopropylbenzene	ND		5.2	0.62	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Methyl acetate	ND		10	2.9	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Methylcyclohexane	ND		5.2	0.44	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Methylene Chloride	**2.2**	**J B**	5.2	1.7	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
4-Methyl-2-pentanone (MIBK)	ND		21	4.6	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Methyl tert-butyl ether	ND		21	0.36	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
m-Xylene & p-Xylene	ND		2.6	1.1	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
o-Xylene	ND		2.6	0.64	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Styrene	ND		5.2	0.66	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.64	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Tetrachloroethene	**1.2**	**J**	5.2	0.62	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Toluene	ND		5.2	0.72	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
trans-1,2-Dichloroethene	ND		2.6	0.41	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
trans-1,3-Dichloropropene	ND		5.2	0.70	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2,3-Trichlorobenzene	ND		5.2	0.78	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,2,4-Trichlorobenzene	ND		5.2	0.76	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1,1-Trichloroethane	ND		5.2	0.54	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1,2-Trichloroethane	ND		5.2	0.92	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Trichloroethene	ND		5.2	0.24	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Trichlorofluoromethane	ND		10	1.1	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
1,1,2-Trichlorotrifluoroethane	ND		21	0.47	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Vinyl chloride	ND		5.2	1.4	ug/Kg		03/18/13 06:00	03/18/13 18:15	1
Xylenes, Total	ND		2.6	0.64	ug/Kg		03/18/13 06:00	03/18/13 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*03/18/13 06:00*	*03/18/13 18:15*	*1*
Dibromofluoromethane (Surr)	*57*	*X*	*75 - 121*	*03/18/13 06:00*	*03/18/13 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*03/18/13 06:00*	*03/18/13 18:15*	*1*
Toluene-d8 (Surr)	*111*		*80 - 126*	*03/18/13 06:00*	*03/18/13 18:15*	*1*

Client Sample ID: WAMW2(5-6) — **Lab Sample ID: 280-39968-7**
Date Collected: 03/14/13 10:20 — **Matrix: Solid**
Date Received: 03/14/13 16:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**13**	**J B**	20	5.3	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Benzene	ND		4.9	0.46	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Bromoform	**0.23**	**J B**	4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Bromomethane	ND		9.8	0.49	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Carbon disulfide	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Carbon tetrachloride	ND		4.9	0.62	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chlorobenzene	ND		4.9	0.53	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chlorobromomethane	ND		4.9	0.29	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chlorodibromomethane	ND		4.9	0.56	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chloroethane	ND		9.8	0.87	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chloroform	ND		9.8	0.28	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Chloromethane	ND		9.8	0.75	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
cis-1,2-Dichloroethene	ND		2.4	0.55	ug/Kg		03/18/13 06:00	03/18/13 18:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW2(5-6)
Date Collected: 03/14/13 10:20
Date Received: 03/14/13 16:20

Lab Sample ID: 280-39968-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Cyclohexane	ND		4.9	0.39	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2-Dibromo-3-Chloropropane	ND		9.8	0.59	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2-Dibromoethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2-Dichlorobenzene	ND		4.9	0.44	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,3-Dichlorobenzene	ND		4.9	0.47	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,4-Dichlorobenzene	ND		4.9	0.76	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Dichlorobromomethane	ND		4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Dichlorodifluoromethane	ND		9.8	0.51	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1-Dichloroethane	ND		4.9	0.21	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2-Dichloroethane	ND		4.9	0.68	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1-Dichloroethene	ND		4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2-Dichloropropane	ND		4.9	0.54	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,4-Dioxane	ND		490	55	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Ethylbenzene	ND		4.9	0.65	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
2-Hexanone	ND		20	4.8	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Isopropylbenzene	ND		4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Methyl acetate	ND		9.8	2.7	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Methylcyclohexane	ND		4.9	0.41	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Methylene Chloride	**1.6**	**J B**	4.9	1.6	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.3	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Methyl tert-butyl ether	ND		20	0.33	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
m-Xylene & p-Xylene	ND		2.4	1.0	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
o-Xylene	ND		2.4	0.60	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Styrene	ND		4.9	0.62	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.60	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Tetrachloroethene	ND		4.9	0.58	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Toluene	ND		4.9	0.67	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
trans-1,2-Dichloroethene	ND		2.4	0.38	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
trans-1,3-Dichloropropene	ND		4.9	0.65	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2,3-Trichlorobenzene	ND		4.9	0.73	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,2,4-Trichlorobenzene	ND		4.9	0.71	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1,1-Trichloroethane	ND		4.9	0.51	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1,2-Trichloroethane	ND		4.9	0.86	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Trichloroethene	ND		4.9	0.22	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Trichlorofluoromethane	ND		9.8	1.0	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.44	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Vinyl chloride	ND		4.9	1.3	ug/Kg		03/18/13 06:00	03/18/13 18:37	1
Xylenes, Total	ND		2.4	0.60	ug/Kg		03/18/13 06:00	03/18/13 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*03/18/13 06:00*	*03/18/13 18:37*	*1*
Dibromofluoromethane (Surr)	*72*	*X*	*75 - 121*	*03/18/13 06:00*	*03/18/13 18:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*	*03/18/13 06:00*	*03/18/13 18:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 126*	*03/18/13 06:00*	*03/18/13 18:37*	*1*

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

GC/MS VOA

Analysis Batch: 165330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39950-D-1-B MS	Matrix Spike	Total/NA	Solid	8260B	165355
280-39950-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	165355
280-39968-1	WAMW3(4-6)	Total/NA	Solid	8260B	165355
280-39968-2	WAMW3(7-8)	Total/NA	Solid	8260B	165355
280-39968-3	WAMW3(7-8)D	Total/NA	Solid	8260B	165355
280-39968-4	WAMW1(5-6)	Total/NA	Solid	8260B	165355
280-39968-5	WAMW1(10-12)	Total/NA	Solid	8260B	165355
280-39968-6	WAMW2(0.5-10)	Total/NA	Solid	8260B	165355
280-39968-7	WAMW2(5-6)	Total/NA	Solid	8260B	165355
LCS 280-165355/2-A	Lab Control Sample	Total/NA	Solid	8260B	165355
MB 280-165355/1-A	Method Blank	Total/NA	Solid	8260B	165355

Prep Batch: 165355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-39950-D-1-B MS	Matrix Spike	Total/NA	Solid	5030B	
280-39950-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
280-39968-1	WAMW3(4-6)	Total/NA	Solid	5030B	
280-39968-2	WAMW3(7-8)	Total/NA	Solid	5030B	
280-39968-3	WAMW3(7-8)D	Total/NA	Solid	5030B	
280-39968-4	WAMW1(5-6)	Total/NA	Solid	5030B	
280-39968-5	WAMW1(10-12)	Total/NA	Solid	5030B	
280-39968-6	WAMW2(0.5-10)	Total/NA	Solid	5030B	
280-39968-7	WAMW2(5-6)	Total/NA	Solid	5030B	
LCS 280-165355/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 280-165355/1-A	Method Blank	Total/NA	Solid	5030B	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-165355/1-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.42	J	20	5.4	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Benzene	ND		5.0	0.47	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Bromoform	0.338	J	5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Bromomethane	ND		10	0.50	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
2-Butanone (MEK)	2.15	J	20	1.8	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Carbon disulfide	0.649	J	5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloroethane	ND		10	0.89	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloroform	ND		10	0.29	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Chloromethane	ND		10	0.77	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Cyclohexane	ND		5.0	0.40	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Dichlorobromomethane	0.254	J	5.0	0.22	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,4-Dioxane	ND		500	56	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
2-Hexanone	8.76	J	20	4.9	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methyl acetate	ND		10	2.8	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methylene Chloride	1.74	J	5.0	1.6	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.4	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
o-Xylene	ND		2.5	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Styrene	ND		5.0	0.63	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Toluene	ND		5.0	0.69	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		03/18/13 06:00	03/18/13 13:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-165355/1-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0	0.23	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Vinyl chloride	ND		5.0	1.3	ug/Kg		03/18/13 06:00	03/18/13 13:33	1
Xylenes, Total	ND		5.0	0.61	ug/Kg		03/18/13 06:00	03/18/13 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*03/18/13 06:00*	*03/18/13 13:33*	*1*
Toluene-d8 (Surr)	*108*		*80 - 126*	*03/18/13 06:00*	*03/18/13 13:33*	*1*

Lab Sample ID: LCS 280-165355/2-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/Kg		109	65 - 150
Benzene	50.0	55.0		ug/Kg		110	75 - 135
Bromoform	50.0	48.5		ug/Kg		97	77 - 135
Bromomethane	50.0	33.8		ug/Kg		68	52 - 135
2-Butanone (MEK)	200	255		ug/Kg		128	45 - 177
Carbon disulfide	50.0	35.1		ug/Kg		70	45 - 150
Carbon tetrachloride	50.0	54.5		ug/Kg		109	69 - 138
Chlorobenzene	50.0	53.3		ug/Kg		107	78 - 135
Chlorobromomethane	50.0	49.3		ug/Kg		99	74 - 135
Chlorodibromomethane	50.0	53.3		ug/Kg		107	77 - 135
Chloroethane	50.0	41.2		ug/Kg		82	51 - 145
Chloroform	50.0	54.5		ug/Kg		109	73 - 123
Chloromethane	50.0	29.7		ug/Kg		59	41 - 138
cis-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	76 - 135
cis-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	71 - 135
1,2-Dibromo-3-Chloropropane	50.0	50.7		ug/Kg		101	66 - 150
1,2-Dibromoethane	50.0	52.5		ug/Kg		105	76 - 135
1,2-Dichlorobenzene	50.0	53.9		ug/Kg		108	73 - 135
1,3-Dichlorobenzene	50.0	55.2		ug/Kg		110	69 - 135
1,4-Dichlorobenzene	50.0	55.4		ug/Kg		111	73 - 135
Dichlorobromomethane	50.0	54.0		ug/Kg		108	73 - 135
Dichlorodifluoromethane	50.0	23.9		ug/Kg		48	32 - 152
1,1-Dichloroethane	50.0	55.4		ug/Kg		111	70 - 135
1,2-Dichloroethane	50.0	52.4		ug/Kg		105	69 - 135
1,1-Dichloroethene	50.0	61.2		ug/Kg		122	79 - 135
1,2-Dichloropropane	50.0	53.7		ug/Kg		107	72 - 121
Ethylbenzene	50.0	55.6		ug/Kg		111	73 - 125
2-Hexanone	200	238		ug/Kg		119	67 - 150
Isopropylbenzene	50.0	55.5		ug/Kg		111	74 - 137
Methylene Chloride	50.0	51.8		ug/Kg		104	76 - 136
4-Methyl-2-pentanone (MIBK)	200	235		ug/Kg		118	69 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-165355/2-A
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.7		ug/Kg		107	71 - 141
m-Xylene & p-Xylene	100	118		ug/Kg		118	77 - 135
o-Xylene	50.0	54.2		ug/Kg		108	75 - 135
Styrene	50.0	59.3		ug/Kg		119	76 - 135
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	65 - 135
Tetrachloroethene	50.0	55.7		ug/Kg		111	76 - 135
Toluene	50.0	55.0		ug/Kg		110	77 - 122
trans-1,2-Dichloroethene	50.0	54.0		ug/Kg		108	77 - 135
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	71 - 135
1,2,3-Trichlorobenzene	50.0	51.1		ug/Kg		102	62 - 135
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	65 - 135
1,1,1-Trichloroethane	50.0	56.8		ug/Kg		114	70 - 135
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	78 - 135
Trichloroethene	50.0	50.4		ug/Kg		101	77 - 135
Trichlorofluoromethane	50.0	32.7		ug/Kg		65	48 - 150
Vinyl chloride	50.0	31.5		ug/Kg		63	43 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*76 - 127*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*58 - 140*
Toluene-d8 (Surr)	*106*		*80 - 126*

Lab Sample ID: 280-39950-D-1-B MS
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	47	B	199	308		ug/Kg		131	65 - 150
Benzene	0.49	J	49.7	36.9	F	ug/Kg		73	75 - 135
Bromoform	0.59	J B	49.7	34.1	F	ug/Kg		67	77 - 135
Bromomethane	ND		49.7	48.0		ug/Kg		97	52 - 135
2-Butanone (MEK)	8.9	J B	199	487	F	ug/Kg		240	45 - 177
Carbon disulfide	ND		49.7	29.3		ug/Kg		59	45 - 150
Carbon tetrachloride	ND		49.7	64.2		ug/Kg		129	69 - 138
Chlorobenzene	ND		49.7	21.9	F	ug/Kg		44	78 - 135
Chlorobromomethane	ND		49.7	43.8		ug/Kg		88	74 - 135
Chlorodibromomethane	ND		49.7	59.7		ug/Kg		120	77 - 135
Chloroethane	ND		49.7	54.7		ug/Kg		110	51 - 145
Chloroform	ND		49.7	59.3		ug/Kg		119	73 - 123
Chloromethane	ND		49.7	43.1		ug/Kg		87	41 - 138
cis-1,2-Dichloroethene	ND		49.7	40.8		ug/Kg		82	76 - 135
cis-1,3-Dichloropropene	ND		49.7	54.3		ug/Kg		109	71 - 135
1,2-Dibromo-3-Chloropropane	ND		49.7	48.3		ug/Kg		97	66 - 150
1,2-Dibromoethane	ND		49.7	41.2		ug/Kg		83	76 - 135
1,2-Dichlorobenzene	ND		49.7	20.7	F	ug/Kg		42	73 - 135
1,3-Dichlorobenzene	ND		49.7	23.2	F	ug/Kg		47	69 - 135
1,4-Dichlorobenzene	ND		49.7	18.0	F	ug/Kg		36	73 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-39950-D-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165330 — **Prep Batch: 165355**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	ND		49.7	45.8		ug/Kg		92	73 - 135
Dichlorodifluoromethane	ND		49.7	32.9		ug/Kg		66	32 - 152
1,1-Dichloroethane	ND		49.7	68.7	F	ug/Kg		138	70 - 135
1,2-Dichloroethane	ND		49.7	45.7		ug/Kg		92	69 - 135
1,1-Dichloroethene	ND		49.7	66.5		ug/Kg		134	79 - 135
1,2-Dichloropropane	ND		49.7	54.7		ug/Kg		110	72 - 121
Ethylbenzene	ND		49.7	51.3		ug/Kg		103	73 - 125
2-Hexanone	ND		199	223		ug/Kg		112	67 - 150
Isopropylbenzene	ND		49.7	169	F	ug/Kg		341	74 - 137
Methylene Chloride	4.7	J B	49.7	61.6		ug/Kg		114	76 - 136
4-Methyl-2-pentanone (MIBK)	ND		199	221		ug/Kg		111	69 - 150
Methyl tert-butyl ether	ND		49.7	79.3	F	ug/Kg		159	71 - 141
m-Xylene & p-Xylene	ND		99.4	85.9		ug/Kg		86	77 - 135
o-Xylene	ND		49.7	37.1		ug/Kg		75	75 - 135
Styrene	ND		49.7	12.3	F	ug/Kg		25	76 - 135
1,1,2,2-Tetrachloroethane	ND		49.7	134	F	ug/Kg		270	65 - 135
Tetrachloroethene	10		49.7	83.9	F	ug/Kg		148	76 - 135
Toluene	ND		49.7	26.2	F	ug/Kg		53	77 - 122
trans-1,2-Dichloroethene	ND		49.7	41.3		ug/Kg		83	77 - 135
trans-1,3-Dichloropropene	ND		49.7	19.9	F	ug/Kg		40	71 - 135
1,2,3-Trichlorobenzene	ND		49.7	7.30	F	ug/Kg		15	62 - 135
1,2,4-Trichlorobenzene	ND		49.7	7.85	F	ug/Kg		16	65 - 135
1,1,1-Trichloroethane	ND		49.7	72.6	F	ug/Kg		146	70 - 135
1,1,2-Trichloroethane	ND		49.7	35.8	F	ug/Kg		72	78 - 135
Trichloroethene	ND		49.7	34.6	F	ug/Kg		70	77 - 135
Trichlorofluoromethane	ND		49.7	42.5		ug/Kg		85	48 - 150
Vinyl chloride	ND		49.7	39.4		ug/Kg		79	43 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*	*X*	*76 - 127*
Dibromofluoromethane (Surr)	*138*	*X*	*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*128*		*58 - 140*
Toluene-d8 (Surr)	*178*	*X*	*80 - 126*

Lab Sample ID: 280-39950-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 165330 — **Prep Batch: 165355**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	47	B	205	282		ug/Kg		115	65 - 150	9	28
Benzene	0.49	J	51.2	30.4	F	ug/Kg		58	75 - 135	19	20
Bromoform	0.59	J B	51.2	34.6	F	ug/Kg		66	77 - 135	2	20
Bromomethane	ND		51.2	42.2		ug/Kg		82	52 - 135	13	22
2-Butanone (MEK)	8.9	J B	205	475	F	ug/Kg		228	45 - 177	3	32
Carbon disulfide	ND		51.2	23.5		ug/Kg		46	45 - 150	22	24
Carbon tetrachloride	ND		51.2	69.3		ug/Kg		135	69 - 138	8	20
Chlorobenzene	ND		51.2	19.6	F	ug/Kg		38	78 - 135	11	20
Chlorobromomethane	ND		51.2	44.9		ug/Kg		88	74 - 135	2	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-39950-D-1-C MSD
Matrix: Solid
Analysis Batch: 165330

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 165355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	ND		51.2	60.0		ug/Kg		117	77 - 135	1	20
Chloroethane	ND		51.2	48.6		ug/Kg		95	51 - 145	12	22
Chloroform	ND		51.2	56.2		ug/Kg		110	73 - 123	5	20
Chloromethane	ND		51.2	41.2		ug/Kg		80	41 - 138	5	25
cis-1,2-Dichloroethene	ND		51.2	38.6	F	ug/Kg		75	76 - 135	6	20
cis-1,3-Dichloropropene	ND		51.2	56.2		ug/Kg		110	71 - 135	3	20
1,2-Dibromo-3-Chloropropane	ND		51.2	55.3		ug/Kg		108	66 - 150	14	28
1,2-Dibromoethane	ND		51.2	41.8		ug/Kg		82	76 - 135	1	20
1,2-Dichlorobenzene	ND		51.2	20.5	F	ug/Kg		40	73 - 135	1	20
1,3-Dichlorobenzene	ND		51.2	22.6	F	ug/Kg		44	69 - 135	3	20
1,4-Dichlorobenzene	ND		51.2	17.7	F	ug/Kg		35	73 - 135	2	22
Dichlorobromomethane	ND		51.2	42.2		ug/Kg		82	73 - 135	8	20
Dichlorodifluoromethane	ND		51.2	31.4		ug/Kg		61	32 - 152	5	28
1,1-Dichloroethane	ND		51.2	64.9		ug/Kg		127	70 - 135	6	20
1,2-Dichloroethane	ND		51.2	39.3		ug/Kg		77	69 - 135	15	20
1,1-Dichloroethene	ND		51.2	63.2		ug/Kg		123	79 - 135	5	20
1,2-Dichloropropane	ND		51.2	48.6		ug/Kg		95	72 - 121	12	20
Ethylbenzene	ND		51.2	44.9		ug/Kg		88	73 - 125	13	20
2-Hexanone	ND		205	223		ug/Kg		109	67 - 150	0	29
Isopropylbenzene	ND		51.2	174	F	ug/Kg		339	74 - 137	2	20
Methylene Chloride	4.7	J B	51.2	59.2		ug/Kg		107	76 - 136	4	21
4-Methyl-2-pentanone (MIBK)	ND		205	196		ug/Kg		96	69 - 150	12	25
Methyl tert-butyl ether	ND		51.2	77.7	F	ug/Kg		152	71 - 141	2	20
m-Xylene & p-Xylene	ND		102	74.2	F	ug/Kg		72	77 - 135	15	20
o-Xylene	ND		51.2	32.6	F	ug/Kg		64	75 - 135	13	20
Styrene	ND		51.2	10.7	F	ug/Kg		21	76 - 135	14	20
1,1,2,2-Tetrachloroethane	ND		51.2	153	F	ug/Kg		299	65 - 135	13	21
Tetrachloroethene	10		51.2	80.4	F	ug/Kg		137	76 - 135	4	20
Toluene	ND		51.2	20.7	F	ug/Kg		40	77 - 122	24	20
trans-1,2-Dichloroethene	ND		51.2	37.2	F	ug/Kg		73	77 - 135	10	20
trans-1,3-Dichloropropene	ND		51.2	16.2	F	ug/Kg		32	71 - 135	20	20
1,2,3-Trichlorobenzene	ND		51.2	7.01	F	ug/Kg		14	62 - 135	4	31
1,2,4-Trichlorobenzene	ND		51.2	6.98	F	ug/Kg		14	65 - 135	12	26
1,1,1-Trichloroethane	ND		51.2	72.7	F	ug/Kg		142	70 - 135	0	20
1,1,2-Trichloroethane	ND		51.2	31.5	F	ug/Kg		62	78 - 135	13	20
Trichloroethene	ND		51.2	30.1	F	ug/Kg		59	77 - 135	14	20
Trichlorofluoromethane	ND		51.2	44.2		ug/Kg		86	48 - 150	4	33
Vinyl chloride	ND		51.2	35.9		ug/Kg		70	43 - 145	9	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*156*	*X*	*76 - 127*
Dibromofluoromethane (Surr)	*149*	*X*	*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*122*		*58 - 140*
Toluene-d8 (Surr)	*210*	*X*	*80 - 126*

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

Client Sample ID: WAMW3(4-6)

Lab Sample ID: 280-39968-1
Date Collected: 03/13/13 11:25
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.862 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 16:27	JR	TAL DEN

Client Sample ID: WAMW3(7-8)

Lab Sample ID: 280-39968-2
Date Collected: 03/13/13 11:25
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.698 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 16:48	JR	TAL DEN

Client Sample ID: WAMW3(7-8)D

Lab Sample ID: 280-39968-3
Date Collected: 03/13/13 00:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.147 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 17:10	JR	TAL DEN

Client Sample ID: WAMW1(5-6)

Lab Sample ID: 280-39968-4
Date Collected: 03/14/13 09:00
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.755 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 17:32	JR	TAL DEN

Client Sample ID: WAMW1(10-12)

Lab Sample ID: 280-39968-5
Date Collected: 03/14/13 09:10
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.691 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 17:53	JR	TAL DEN

Client Sample ID: WAMW2(0.5-10)

Lab Sample ID: 280-39968-6
Date Collected: 03/14/13 10:05
Matrix: Solid
Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.780 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 18:15	JR	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rentals

TestAmerica Job ID: 280-39968-1

Client Sample ID: WAMW2(5-6)

Lab Sample ID: 280-39968-7

Date Collected: 03/14/13 10:20

Matrix: Solid

Date Received: 03/14/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.115 g	5 mL	165355	03/18/13 06:00	JR	TAL DEN
Total/NA	Analysis	8260B		1			165330	03/18/13 18:37	JR	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Walsh Environmental	Project Manager: Craig Carter	Date: 3-13-13	Chain of Custody Number: 172733
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303-573-5545/303-573-5625	Lab Number	Page 1 of
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: D. Rysberg	
Project Name and Location (State): Wagner Rentals	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-10TTO			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOC	Special Instructions/ Conditions of Receipt
WAMW3(4-6)	03.13.13	1125				X		1							X	
WAMW3(7-8)	03.13.13	1125				X		1							X	
WAMW3(7-8)D	03.13.13	—				X		1							X	
WAMW1 (5-6)	3/14/2013	09:00				X		1							X	
WAMW1 (10-12)	3/14/2013	09:10				X		1							X	
WAMW2 (0.5-1.0)	3/14/2013	10:05				X		1							X	
WAMW2 (5-6)	3/14/2013	10:20				X		1							X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

1. Relinquished By	Date: 3-14-13	Time: 1620	1. Received By	Date: 3/14/13	Time: 1620
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished 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: Walsh Enviro Scientist & Engineering

Job Number: 280-39968-1

Login Number: 39968

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: 280-40058-1
Client Project/Site: Cliff Brice

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/22/2013 10:03:16 AM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

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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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Qualifiers

GC/MS VOA

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.

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.
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.

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-40058-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Cliff Brice

Report Number: 280-40058-1

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 March 19, 2013. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.0º C, 2.8º C and 3.1º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

The MS/MSD associated with batch 280-165627 exhibited spike recoveries outside QC control limits for several analytes. 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 volatiles analyses.

POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

Several analytes were detected in method blank MB 280-165672/1-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 could not be performed due to insufficient sample volume. The associated LCS and LCSD were in control and demonstrate that operating procedures were in control. No further action was required.

No other difficulties were encountered during the PAH analyses.

DISSOLVED METALS

Mercury was detected in method blank MB 280-165702/1-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 difficulties were encountered during the dissolved metals analyses.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Client Sample ID: WAMW4 — Lab Sample ID: 280-40058-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9	J	10	1.9	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	5.1	J	96	3.1	ng/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.2	J	96	4.9	ng/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	8.0	J	96	3.3	ng/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	14	J B	96	3.4	ng/L	1		8270C SIM	Total/NA
Chrysene	5.5	J	96	3.1	ng/L	1		8270C SIM	Total/NA
Fluoranthene	8.4	J B	96	4.3	ng/L	1		8270C SIM	Total/NA
1-Methylnaphthalene	13	J	96	5.4	ng/L	1		8270C SIM	Total/NA
Naphthalene	10	J	96	5.1	ng/L	1		8270C SIM	Total/NA
Phenanthrene	26	J	96	9.3	ng/L	1		8270C SIM	Total/NA
Pyrene	11	J B	96	7.7	ng/L	1		8270C SIM	Total/NA
Barium	44		1.0	0.29	ug/L	1		6020	Dissolved
Selenium	2.0	J	5.0	0.70	ug/L	1		6020	Dissolved
Mercury	0.071	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: WAMW5 — Lab Sample ID: 280-40058-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	10	1.9	ug/L	1		8260B	Total/NA
Benzo[g,h,i]perylene	7.4	J B	98	3.5	ng/L	1		8270C SIM	Total/NA
Fluoranthene	5.7	J B	98	4.4	ng/L	1		8270C SIM	Total/NA
1-Methylnaphthalene	18	J	98	5.5	ng/L	1		8270C SIM	Total/NA
2-Methylnaphthalene	20	J B	98	5.0	ng/L	1		8270C SIM	Total/NA
Naphthalene	13	J	98	5.2	ng/L	1		8270C SIM	Total/NA
Phenanthrene	26	J	98	9.5	ng/L	1		8270C SIM	Total/NA
Pyrene	9.0	J B	98	7.9	ng/L	1		8270C SIM	Total/NA
Barium	47		1.0	0.29	ug/L	1		6020	Dissolved
Selenium	2.4	J	5.0	0.70	ug/L	1		6020	Dissolved
Mercury	0.071	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: BVMW5 — Lab Sample ID: 280-40058-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.9	ug/L	1		8260B	Total/NA
Arsenic	0.53	J	5.0	0.33	ug/L	1		6020	Dissolved
Barium	42		1.0	0.29	ug/L	1		6020	Dissolved
Mercury	0.070	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: WAMW4D — Lab Sample ID: 280-40058-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	8.0	J B	97	3.5	ng/L	1		8270C SIM	Total/NA
Fluoranthene	6.6	J B	97	4.4	ng/L	1		8270C SIM	Total/NA
1-Methylnaphthalene	10	J	97	5.5	ng/L	1		8270C SIM	Total/NA
2-Methylnaphthalene	14	J B	97	5.0	ng/L	1		8270C SIM	Total/NA
Naphthalene	8.6	J	97	5.2	ng/L	1		8270C SIM	Total/NA
Phenanthrene	30	J	97	9.5	ng/L	1		8270C SIM	Total/NA
Pyrene	8.4	J B	97	7.9	ng/L	1		8270C SIM	Total/NA
Barium	44		1.0	0.29	ug/L	1		6020	Dissolved
Selenium	2.3	J	5.0	0.70	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Client Sample ID: WAMW4D (Continued) — Lab Sample ID: 280-40058-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.071	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-40058-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
7470A	Mercury (CVAA)	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: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-40058-1	WAMW4	Water	03/18/13 13:05	03/19/13 08:05
280-40058-2	WAMW5	Water	03/18/13 12:30	03/19/13 08:05
280-40058-3	BVMW5	Water	03/18/13 12:00	03/19/13 08:05
280-40058-4	WAMW4D	Water	03/18/13 00:00	03/19/13 08:05
280-40058-5	TRIP BLANK	Water	03/18/13 12:00	03/19/13 08:05

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WAMW4
Date Collected: 03/18/13 13:05
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40058-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.9	J	10	1.9	ug/L			03/20/13 15:06	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 15:06	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 15:06	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 15:06	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 15:06	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 15:06	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 15:06	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 15:06	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 15:06	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 15:06	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 15:06	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 15:06	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 15:06	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:06	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 15:06	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 15:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 15:06	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 15:06	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 15:06	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 15:06	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 15:06	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 15:06	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 15:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 15:06	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 15:06	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 15:06	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 15:06	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 15:06	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 15:06	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 15:06	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 15:06	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 15:06	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 15:06	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 15:06	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 15:06	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 15:06	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 15:06	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 15:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 15:06	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 15:06	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 15:06	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:06	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 15:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:06	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 15:06	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 15:06	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 15:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW4 — **Lab Sample ID: 280-40058-1**
Date Collected: 03/18/13 13:05 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 15:06	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 15:06	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 15:06	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*03/20/13 15:06*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*03/20/13 15:06*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/20/13 15:06*	*1*

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.8**	**J**	10	1.9	ug/L			03/20/13 15:29	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 15:29	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 15:29	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 15:29	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 15:29	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 15:29	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 15:29	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 15:29	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 15:29	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 15:29	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 15:29	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 15:29	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 15:29	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:29	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 15:29	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 15:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 15:29	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 15:29	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 15:29	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 15:29	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 15:29	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 15:29	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 15:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 15:29	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 15:29	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 15:29	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 15:29	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 15:29	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 15:29	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 15:29	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 15:29	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 15:29	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 15:29	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 15:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 15:29	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 15:29	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 15:29	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 15:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 15:29	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 15:29	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 15:29	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:29	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 15:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:29	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 15:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 15:29	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 15:29	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 15:29	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 15:29	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 15:29	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*03/20/13 15:29*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*03/20/13 15:29*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/20/13 15:29*	*1*

Client Sample ID: BVMW5 — **Lab Sample ID: 280-40058-3**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.3**	**J**	10	1.9	ug/L			03/20/13 15:52	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 15:52	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 15:52	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 15:52	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 15:52	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 15:52	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 15:52	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 15:52	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 15:52	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 15:52	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 15:52	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 15:52	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 15:52	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:52	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 15:52	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 15:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 15:52	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 15:52	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 15:52	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 15:52	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 15:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: BVMW5 — **Lab Sample ID: 280-40058-3**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 15:52	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 15:52	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 15:52	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 15:52	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 15:52	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 15:52	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 15:52	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 15:52	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 15:52	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 15:52	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 15:52	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 15:52	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 15:52	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 15:52	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 15:52	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 15:52	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 15:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 15:52	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 15:52	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 15:52	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 15:52	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 15:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 15:52	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 15:52	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 15:52	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 15:52	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 15:52	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 15:52	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 15:52	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*03/20/13 15:52*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*03/20/13 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*03/20/13 15:52*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/20/13 15:52*	*1*

Client Sample ID: TRIP BLANK — **Lab Sample ID: 280-40058-5**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			03/20/13 16:15	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 16:15	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 16:15	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 16:15	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 16:15	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 16:15	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 16:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK
Date Collected: 03/18/13 12:00
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40058-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 16:15	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 16:15	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 16:15	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 16:15	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 16:15	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 16:15	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 16:15	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 16:15	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 16:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 16:15	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 16:15	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 16:15	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 16:15	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 16:15	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 16:15	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 16:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 16:15	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 16:15	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 16:15	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 16:15	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 16:15	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 16:15	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 16:15	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 16:15	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 16:15	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 16:15	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 16:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 16:15	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 16:15	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 16:15	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 16:15	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 16:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 16:15	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 16:15	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 16:15	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 16:15	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 16:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 16:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 16:15	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 16:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 16:15	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 16:15	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 16:15	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 16:15	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 16:15	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*03/20/13 16:15*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 16:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK — **Lab Sample ID: 280-40058-5**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127		03/20/13 16:15	1
Toluene-d8 (Surr)	94		80 - 125		03/20/13 16:15	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: WAMW4 — **Lab Sample ID: 280-40058-1**
Date Collected: 03/18/13 13:05 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		96	10	ng/L		03/20/13 09:37	03/20/13 22:34	1
Acenaphthylene	ND		96	9.5	ng/L		03/20/13 09:37	03/20/13 22:34	1
Anthracene	ND		96	14	ng/L		03/20/13 09:37	03/20/13 22:34	1
Benzo[a]anthracene	**5.1**	**J**	96	3.1	ng/L		03/20/13 09:37	03/20/13 22:34	1
Benzo[a]pyrene	**6.2**	**J**	96	4.9	ng/L		03/20/13 09:37	03/20/13 22:34	1
Benzo[b]fluoranthene	**8.0**	**J**	96	3.3	ng/L		03/20/13 09:37	03/20/13 22:34	1
Benzo[g,h,i]perylene	**14**	**J B**	96	3.4	ng/L		03/20/13 09:37	03/20/13 22:34	1
Benzo[k]fluoranthene	ND		96	4.8	ng/L		03/20/13 09:37	03/20/13 22:34	1
Chrysene	**5.5**	**J**	96	3.1	ng/L		03/20/13 09:37	03/20/13 22:34	1
Dibenz(a,h)anthracene	ND		96	4.6	ng/L		03/20/13 09:37	03/20/13 22:34	1
Fluoranthene	**8.4**	**J B**	96	4.3	ng/L		03/20/13 09:37	03/20/13 22:34	1
Fluorene	ND		96	18	ng/L		03/20/13 09:37	03/20/13 22:34	1
Indeno[1,2,3-cd]pyrene	ND		96	14	ng/L		03/20/13 09:37	03/20/13 22:34	1
1-Methylnaphthalene	**13**	**J**	96	5.4	ng/L		03/20/13 09:37	03/20/13 22:34	1
2-Methylnaphthalene	ND		96	4.9	ng/L		03/20/13 09:37	03/20/13 22:34	1
Naphthalene	**10**	**J**	96	5.1	ng/L		03/20/13 09:37	03/20/13 22:34	1
Phenanthrene	**26**	**J**	96	9.3	ng/L		03/20/13 09:37	03/20/13 22:34	1
Pyrene	**11**	**J B**	96	7.7	ng/L		03/20/13 09:37	03/20/13 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		42 - 120	03/20/13 09:37	03/20/13 22:34	1
Nitrobenzene-d5	67		43 - 120	03/20/13 09:37	03/20/13 22:34	1
Terphenyl-d14	94		47 - 120	03/20/13 09:37	03/20/13 22:34	1

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		98	11	ng/L		03/20/13 09:37	03/20/13 23:00	1
Acenaphthylene	ND		98	9.7	ng/L		03/20/13 09:37	03/20/13 23:00	1
Anthracene	ND		98	14	ng/L		03/20/13 09:37	03/20/13 23:00	1
Benzo[a]anthracene	ND		98	3.1	ng/L		03/20/13 09:37	03/20/13 23:00	1
Benzo[a]pyrene	ND		98	5.0	ng/L		03/20/13 09:37	03/20/13 23:00	1
Benzo[b]fluoranthene	ND		98	3.4	ng/L		03/20/13 09:37	03/20/13 23:00	1
Benzo[g,h,i]perylene	**7.4**	**J B**	98	3.5	ng/L		03/20/13 09:37	03/20/13 23:00	1
Benzo[k]fluoranthene	ND		98	4.9	ng/L		03/20/13 09:37	03/20/13 23:00	1
Chrysene	ND		98	3.1	ng/L		03/20/13 09:37	03/20/13 23:00	1
Dibenz(a,h)anthracene	ND		98	4.7	ng/L		03/20/13 09:37	03/20/13 23:00	1
Fluoranthene	**5.7**	**J B**	98	4.4	ng/L		03/20/13 09:37	03/20/13 23:00	1
Fluorene	ND		98	18	ng/L		03/20/13 09:37	03/20/13 23:00	1
Indeno[1,2,3-cd]pyrene	ND		98	14	ng/L		03/20/13 09:37	03/20/13 23:00	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	18	J	98	5.5	ng/L		03/20/13 09:37	03/20/13 23:00	1
2-Methylnaphthalene	20	J B	98	5.0	ng/L		03/20/13 09:37	03/20/13 23:00	1
Naphthalene	13	J	98	5.2	ng/L		03/20/13 09:37	03/20/13 23:00	1
Phenanthrene	26	J	98	9.5	ng/L		03/20/13 09:37	03/20/13 23:00	1
Pyrene	9.0	J B	98	7.9	ng/L		03/20/13 09:37	03/20/13 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*42 - 120*	*03/20/13 09:37*	*03/20/13 23:00*	*1*
Nitrobenzene-d5	*60*		*43 - 120*	*03/20/13 09:37*	*03/20/13 23:00*	*1*
Terphenyl-d14	*93*		*47 - 120*	*03/20/13 09:37*	*03/20/13 23:00*	*1*

Client Sample ID: WAMW4D — **Lab Sample ID: 280-40058-4**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		97	11	ng/L		03/20/13 09:37	03/20/13 23:26	1
Acenaphthylene	ND		97	9.7	ng/L		03/20/13 09:37	03/20/13 23:26	1
Anthracene	ND		97	14	ng/L		03/20/13 09:37	03/20/13 23:26	1
Benzo[a]anthracene	ND		97	3.1	ng/L		03/20/13 09:37	03/20/13 23:26	1
Benzo[a]pyrene	ND		97	5.0	ng/L		03/20/13 09:37	03/20/13 23:26	1
Benzo[b]fluoranthene	ND		97	3.3	ng/L		03/20/13 09:37	03/20/13 23:26	1
Benzo[g,h,i]perylene	8.0	J B	97	3.5	ng/L		03/20/13 09:37	03/20/13 23:26	1
Benzo[k]fluoranthene	ND		97	4.9	ng/L		03/20/13 09:37	03/20/13 23:26	1
Chrysene	ND		97	3.1	ng/L		03/20/13 09:37	03/20/13 23:26	1
Dibenz(a,h)anthracene	ND		97	4.7	ng/L		03/20/13 09:37	03/20/13 23:26	1
Fluoranthene	6.6	J B	97	4.4	ng/L		03/20/13 09:37	03/20/13 23:26	1
Fluorene	ND		97	18	ng/L		03/20/13 09:37	03/20/13 23:26	1
Indeno[1,2,3-cd]pyrene	ND		97	14	ng/L		03/20/13 09:37	03/20/13 23:26	1
1-Methylnaphthalene	10	J	97	5.5	ng/L		03/20/13 09:37	03/20/13 23:26	1
2-Methylnaphthalene	14	J B	97	5.0	ng/L		03/20/13 09:37	03/20/13 23:26	1
Naphthalene	8.6	J	97	5.2	ng/L		03/20/13 09:37	03/20/13 23:26	1
Phenanthrene	30	J	97	9.5	ng/L		03/20/13 09:37	03/20/13 23:26	1
Pyrene	8.4	J B	97	7.9	ng/L		03/20/13 09:37	03/20/13 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 120*	*03/20/13 09:37*	*03/20/13 23:26*	*1*
Nitrobenzene-d5	*64*		*43 - 120*	*03/20/13 09:37*	*03/20/13 23:26*	*1*
Terphenyl-d14	*88*		*47 - 120*	*03/20/13 09:37*	*03/20/13 23:26*	*1*

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: WAMW4 — **Lab Sample ID: 280-40058-1**
Date Collected: 03/18/13 13:05 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:30	1
Barium	44		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:30	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:30	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:30	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:30	1

Method: 6020 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: WAMW4 — **Lab Sample ID: 280-40058-1**
Date Collected: 03/18/13 13:05 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.0	J	5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:30	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:30	1

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:33	1
Barium	47		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:33	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:33	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:33	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:33	1
Selenium	2.4	J	5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:33	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:33	1

Client Sample ID: BVMW5 — **Lab Sample ID: 280-40058-3**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.53	J	5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:36	1
Barium	42		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:36	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:36	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:36	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:36	1
Selenium	ND		5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:36	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:36	1

Client Sample ID: WAMW4D — **Lab Sample ID: 280-40058-4**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:39	1
Barium	44		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:39	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:39	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:39	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:39	1
Selenium	2.3	J	5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:39	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: WAMW4 — **Lab Sample ID: 280-40058-1**
Date Collected: 03/18/13 13:05 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071	J B	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:34	1

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: WAMW5 — **Lab Sample ID: 280-40058-2**
Date Collected: 03/18/13 12:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071	J B	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:41	1

Client Sample ID: BVMW5 — **Lab Sample ID: 280-40058-3**
Date Collected: 03/18/13 12:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070	J B	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:44	1

Client Sample ID: WAMW4D — **Lab Sample ID: 280-40058-4**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071	J B	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:46	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

GC/MS VOA

Analysis Batch: 165627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40045-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-40045-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
280-40058-1	WAMW4	Total/NA	Water	8260B	
280-40058-2	WAMW5	Total/NA	Water	8260B	
280-40058-3	BVMW5	Total/NA	Water	8260B	
280-40058-5	TRIP BLANK	Total/NA	Water	8260B	
LCS 280-165627/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-165627/5	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 165672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40058-1	WAMW4	Total/NA	Water	3510C	
280-40058-2	WAMW5	Total/NA	Water	3510C	
280-40058-4	WAMW4D	Total/NA	Water	3510C	
LCS 280-165672/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-165672/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 280-165672/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 165841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40058-1	WAMW4	Total/NA	Water	8270C SIM	165672
280-40058-2	WAMW5	Total/NA	Water	8270C SIM	165672
280-40058-4	WAMW4D	Total/NA	Water	8270C SIM	165672
LCS 280-165672/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	165672
LCSD 280-165672/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	165672
MB 280-165672/1-A	Method Blank	Total/NA	Water	8270C SIM	165672

Metals

Prep Batch: 165612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-D-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-40054-D-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-40058-1	WAMW4	Dissolved	Water	3005A	
280-40058-2	WAMW5	Dissolved	Water	3005A	
280-40058-3	BVMW5	Dissolved	Water	3005A	
280-40058-4	WAMW4D	Dissolved	Water	3005A	
LCS 280-165612/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-165612/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 165702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-A-1-B MS	Matrix Spike	Dissolved	Water	7470A	
280-40054-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	
280-40058-1	WAMW4	Dissolved	Water	7470A	
280-40058-2	WAMW5	Dissolved	Water	7470A	
280-40058-3	BVMW5	Dissolved	Water	7470A	
280-40058-4	WAMW4D	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 165702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-165702/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-165702/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 165946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-D-1-B MS	Matrix Spike	Dissolved	Water	6020	165612
280-40054-D-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020	165612
280-40058-1	WAMW4	Dissolved	Water	6020	165612
280-40058-2	WAMW5	Dissolved	Water	6020	165612
280-40058-3	BVMW5	Dissolved	Water	6020	165612
280-40058-4	WAMW4D	Dissolved	Water	6020	165612
LCS 280-165612/2-A	Lab Control Sample	Total Recoverable	Water	6020	165612
MB 280-165612/1-A	Method Blank	Total Recoverable	Water	6020	165612

Analysis Batch: 165986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-A-1-B MS	Matrix Spike	Dissolved	Water	7470A	165702
280-40054-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	165702
280-40058-1	WAMW4	Dissolved	Water	7470A	165702
280-40058-2	WAMW5	Dissolved	Water	7470A	165702
280-40058-3	BVMW5	Dissolved	Water	7470A	165702
280-40058-4	WAMW4D	Dissolved	Water	7470A	165702
LCS 280-165702/2-A	Lab Control Sample	Total/NA	Water	7470A	165702
MB 280-165702/1-A	Method Blank	Total/NA	Water	7470A	165702

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

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			03/20/13 07:24	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 07:24	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 07:24	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 07:24	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 07:24	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 07:24	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 07:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 07:24	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 07:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 07:24	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 07:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 07:24	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 07:24	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 07:24	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 07:24	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 07:24	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 07:24	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 07:24	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 07:24	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 07:24	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 07:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 07:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 07:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 07:24	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 07:24	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 07:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*03/20/13 07:24*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 07:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*03/20/13 07:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*03/20/13 07:24*	*1*

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

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	24.2		ug/L		121	50 - 156
Benzene	5.00	4.65		ug/L		93	74 - 135
Bromoform	5.00	4.15		ug/L		83	62 - 135
Bromomethane	5.00	5.17		ug/L		103	38 - 150
2-Butanone (MEK)	20.0	16.8		ug/L		84	44 - 150
Carbon disulfide	5.00	3.78		ug/L		76	34 - 150
Carbon tetrachloride	5.00	4.86		ug/L		97	67 - 135
Chlorobenzene	5.00	4.64		ug/L		93	76 - 135
Chlorobromomethane	5.00	4.68		ug/L		94	70 - 135
Chlorodibromomethane	5.00	4.91		ug/L		98	68 - 135
Chloroethane	5.00	5.12		ug/L		102	46 - 147
Chloroform	5.00	4.78		ug/L		96	76 - 120
Chloromethane	5.00	5.45		ug/L		109	34 - 145
cis-1,2-Dichloroethene	5.00	4.75		ug/L		95	73 - 135
cis-1,3-Dichloropropene	5.00	5.04		ug/L		101	66 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.21	J	ug/L		84	65 - 150
1,2-Dibromoethane	5.00	4.75		ug/L		95	71 - 135
1,2-Dichlorobenzene	5.00	4.58		ug/L		92	75 - 135
1,3-Dichlorobenzene	5.00	4.67		ug/L		93	74 - 135
1,4-Dichlorobenzene	5.00	4.72		ug/L		94	75 - 135
Dichlorobromomethane	5.00	4.49		ug/L		90	73 - 135
Dichlorodifluoromethane	5.00	4.53		ug/L		91	28 - 152
1,1-Dichloroethane	5.00	4.81		ug/L		96	75 - 135
1,2-Dichloroethane	5.00	4.56		ug/L		91	70 - 135
1,1-Dichloroethene	5.00	5.57		ug/L		111	71 - 136
1,2-Dichloropropane	5.00	4.54		ug/L		91	71 - 120
Ethylbenzene	5.00	4.69		ug/L		94	72 - 120
2-Hexanone	20.0	17.3		ug/L		86	47 - 150
Isopropylbenzene	5.00	4.72		ug/L		94	75 - 135
Methylene Chloride	5.00	4.74		ug/L		95	54 - 141
4-Methyl-2-pentanone (MIBK)	20.0	16.1		ug/L		80	53 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5.00	4.11	J	ug/L		82	46 - 135
m-Xylene & p-Xylene	10.0	9.05		ug/L		91	74 - 135
o-Xylene	5.00	4.59		ug/L		92	73 - 135
Styrene	5.00	4.47		ug/L		89	68 - 135
1,1,2,2-Tetrachloroethane	5.00	4.41		ug/L		88	66 - 135
Tetrachloroethene	5.00	5.14		ug/L		103	70 - 135
Toluene	5.00	4.23		ug/L		85	73 - 120
trans-1,2-Dichloroethene	5.00	4.96		ug/L		99	75 - 135
trans-1,3-Dichloropropene	5.00	4.07		ug/L		81	68 - 135
1,2,3-Trichlorobenzene	5.00	4.56		ug/L		91	60 - 135
1,2,4-Trichlorobenzene	5.00	4.64		ug/L		93	64 - 135
1,1,1-Trichloroethane	5.00	4.98		ug/L		100	70 - 135
1,1,2-Trichloroethane	5.00	4.02		ug/L		80	73 - 135
Trichloroethene	5.00	4.61		ug/L		92	73 - 135
Trichlorofluoromethane	5.00	4.96		ug/L		99	47 - 150
Vinyl chloride	5.00	4.99		ug/L		100	40 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*103*		*80 - 125*

Lab Sample ID: 280-40045-A-1 MS
Matrix: Water
Analysis Batch: 165627

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	5.9	J	20.0	30.1		ug/L		121	50 - 156
Benzene	ND		5.00	4.80		ug/L		96	74 - 135
Bromoform	ND		5.00	4.65		ug/L		93	62 - 135
Bromomethane	ND		5.00	6.64		ug/L		133	38 - 150
2-Butanone (MEK)	ND		20.0	19.2		ug/L		96	44 - 150
Carbon disulfide	ND		5.00	5.12		ug/L		102	34 - 150
Carbon tetrachloride	ND		5.00	5.22		ug/L		104	67 - 135
Chlorobenzene	ND		5.00	4.86		ug/L		97	76 - 135
Chlorobromomethane	ND		5.00	5.23		ug/L		105	70 - 135
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135
Chloroethane	ND		5.00	7.03		ug/L		141	46 - 147
Chloroform	ND		5.00	4.95		ug/L		99	76 - 120
Chloromethane	ND		5.00	6.31		ug/L		126	34 - 145
cis-1,2-Dichloroethene	ND		5.00	5.01		ug/L		100	73 - 135
cis-1,3-Dichloropropene	ND		5.00	4.69		ug/L		94	66 - 135
1,2-Dibromo-3-Chloropropane	ND		5.00	4.66	J	ug/L		93	65 - 150
1,2-Dibromoethane	ND		5.00	4.86		ug/L		97	71 - 135
1,2-Dichlorobenzene	ND		5.00	4.90		ug/L		98	75 - 135
1,3-Dichlorobenzene	ND		5.00	4.83		ug/L		97	74 - 135
1,4-Dichlorobenzene	ND		5.00	5.01		ug/L		100	75 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-A-1 MS
Matrix: Water
Analysis Batch: 165627

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
Dichlorobromomethane	ND		5.00	4.80		ug/L		96	73 - 135
Dichlorodifluoromethane	ND		5.00	5.53		ug/L		111	28 - 152
1,1-Dichloroethane	ND		5.00	5.03		ug/L		101	75 - 135
1,2-Dichloroethane	ND		5.00	4.81		ug/L		96	70 - 135
1,1-Dichloroethene	ND		5.00	7.42	F	ug/L		148	71 - 136
1,2-Dichloropropane	ND		5.00	4.62		ug/L		92	71 - 120
Ethylbenzene	ND		5.00	4.87		ug/L		97	72 - 120
2-Hexanone	ND		20.0	17.8		ug/L		89	47 - 150
Isopropylbenzene	ND		5.00	4.85		ug/L		97	75 - 135
Methylene Chloride	ND		5.00	6.28		ug/L		126	54 - 141
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.4		ug/L		92	53 - 150
Methyl tert-butyl ether	0.25	J	5.00	5.98		ug/L		120	46 - 135
m-Xylene & p-Xylene	ND		10.0	9.63		ug/L		96	74 - 135
o-Xylene	ND		5.00	4.83		ug/L		97	73 - 135
Styrene	ND		5.00	4.73		ug/L		95	68 - 135
1,1,2,2-Tetrachloroethane	ND		5.00	4.75		ug/L		95	66 - 135
Tetrachloroethene	ND		5.00	5.22		ug/L		104	70 - 135
Toluene	ND		5.00	4.85		ug/L		97	73 - 120
trans-1,2-Dichloroethene	ND		5.00	6.67		ug/L		133	75 - 135
trans-1,3-Dichloropropene	ND		5.00	4.83		ug/L		97	68 - 135
1,2,3-Trichlorobenzene	ND		5.00	4.73		ug/L		95	60 - 135
1,2,4-Trichlorobenzene	ND		5.00	4.75		ug/L		95	64 - 135
1,1,1-Trichloroethane	ND		5.00	5.15		ug/L		103	70 - 135
1,1,2-Trichloroethane	ND		5.00	4.72		ug/L		94	73 - 135
Trichloroethene	ND		5.00	4.83		ug/L		97	73 - 135
Trichlorofluoromethane	ND		5.00	6.26		ug/L		125	47 - 150
Vinyl chloride	ND		5.00	6.66		ug/L		133	40 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: 280-40045-A-1 MSD
Matrix: Water
Analysis Batch: 165627

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
Acetone	5.9	J	20.0	31.3		ug/L		127	50 - 156	4	41
Benzene	ND		5.00	4.76		ug/L		95	74 - 135	1	20
Bromoform	ND		5.00	4.75		ug/L		95	62 - 135	2	21
Bromomethane	ND		5.00	6.94		ug/L		139	38 - 150	4	24
2-Butanone (MEK)	ND		20.0	20.7		ug/L		103	44 - 150	8	32
Carbon disulfide	ND		5.00	5.45		ug/L		109	34 - 150	6	20
Carbon tetrachloride	ND		5.00	5.13		ug/L		103	67 - 135	2	21
Chlorobenzene	ND		5.00	4.79		ug/L		96	76 - 135	1	20
Chlorobromomethane	ND		5.00	5.29		ug/L		106	70 - 135	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-A-1 MSD
Matrix: Water
Analysis Batch: 165627

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
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135	0	20
Chloroethane	ND		5.00	7.42	F	ug/L		148	46 - 147	5	25
Chloroform	ND		5.00	4.93		ug/L		99	76 - 120	0	20
Chloromethane	ND		5.00	7.46	F	ug/L		149	34 - 145	17	24
cis-1,2-Dichloroethene	ND		5.00	4.96		ug/L		99	73 - 135	1	20
cis-1,3-Dichloropropene	ND		5.00	4.70		ug/L		94	66 - 135	0	20
1,2-Dibromo-3-Chloropropane	ND		5.00	4.82	J	ug/L		96	65 - 150	3	22
1,2-Dibromoethane	ND		5.00	4.93		ug/L		99	71 - 135	2	20
1,2-Dichlorobenzene	ND		5.00	4.63		ug/L		93	75 - 135	6	20
1,3-Dichlorobenzene	ND		5.00	4.70		ug/L		94	74 - 135	3	20
1,4-Dichlorobenzene	ND		5.00	4.83		ug/L		97	75 - 135	4	23
Dichlorobromomethane	ND		5.00	4.79		ug/L		96	73 - 135	0	20
Dichlorodifluoromethane	ND		5.00	6.01		ug/L		120	28 - 152	8	24
1,1-Dichloroethane	ND		5.00	4.98		ug/L		100	75 - 135	1	21
1,2-Dichloroethane	ND		5.00	4.84		ug/L		97	70 - 135	0	20
1,1-Dichloroethene	ND		5.00	7.37	F	ug/L		147	71 - 136	1	20
1,2-Dichloropropane	ND		5.00	4.54		ug/L		91	71 - 120	2	20
Ethylbenzene	ND		5.00	4.79		ug/L		96	72 - 120	2	26
2-Hexanone	ND		20.0	18.1		ug/L		90	47 - 150	1	25
Isopropylbenzene	ND		5.00	4.64		ug/L		93	75 - 135	4	20
Methylene Chloride	ND		5.00	6.37		ug/L		127	54 - 141	1	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	19.5		ug/L		97	53 - 150	6	22
Methyl tert-butyl ether	0.25	J	5.00	6.12		ug/L		122	46 - 135	2	21
m-Xylene & p-Xylene	ND		10.0	9.24		ug/L		92	74 - 135	4	20
o-Xylene	ND		5.00	4.63		ug/L		93	73 - 135	4	20
Styrene	ND		5.00	4.72		ug/L		94	68 - 135	0	20
1,1,2,2-Tetrachloroethane	ND		5.00	4.76		ug/L		95	66 - 135	0	20
Tetrachloroethene	ND		5.00	5.10		ug/L		102	70 - 135	2	20
Toluene	ND		5.00	4.79		ug/L		96	73 - 120	1	20
trans-1,2-Dichloroethene	ND		5.00	6.71		ug/L		134	75 - 135	1	24
trans-1,3-Dichloropropene	ND		5.00	4.86		ug/L		97	68 - 135	1	20
1,2,3-Trichlorobenzene	ND		5.00	4.76		ug/L		95	60 - 135	1	29
1,2,4-Trichlorobenzene	ND		5.00	4.76		ug/L		95	64 - 135	0	25
1,1,1-Trichloroethane	ND		5.00	5.08		ug/L		102	70 - 135	1	20
1,1,2-Trichloroethane	ND		5.00	4.68		ug/L		94	73 - 135	1	21
Trichloroethene	ND		5.00	4.71		ug/L		94	73 - 135	3	20
Trichlorofluoromethane	ND		5.00	6.72		ug/L		134	47 - 150	7	20
Vinyl chloride	ND		5.00	7.24	F	ug/L		145	40 - 144	8	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 280-165672/1-A
Matrix: Water
Analysis Batch: 165841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		100	11	ng/L		03/20/13 09:37	03/20/13 21:15	1
Acenaphthylene	ND		100	10	ng/L		03/20/13 09:37	03/20/13 21:15	1
Anthracene	14.1	J	100	14	ng/L		03/20/13 09:37	03/20/13 21:15	1
Benzo[a]anthracene	ND		100	3.2	ng/L		03/20/13 09:37	03/20/13 21:15	1
Benzo[a]pyrene	ND		100	5.1	ng/L		03/20/13 09:37	03/20/13 21:15	1
Benzo[b]fluoranthene	ND		100	3.4	ng/L		03/20/13 09:37	03/20/13 21:15	1
Benzo[g,h,i]perylene	12.3	J	100	3.6	ng/L		03/20/13 09:37	03/20/13 21:15	1
Benzo[k]fluoranthene	ND		100	5.1	ng/L		03/20/13 09:37	03/20/13 21:15	1
Chrysene	ND		100	3.2	ng/L		03/20/13 09:37	03/20/13 21:15	1
Dibenz(a,h)anthracene	ND		100	4.8	ng/L		03/20/13 09:37	03/20/13 21:15	1
Fluoranthene	5.41	J	100	4.5	ng/L		03/20/13 09:37	03/20/13 21:15	1
Fluorene	ND		100	19	ng/L		03/20/13 09:37	03/20/13 21:15	1
Indeno[1,2,3-cd]pyrene	ND		100	15	ng/L		03/20/13 09:37	03/20/13 21:15	1
1-Methylnaphthalene	ND		100	5.7	ng/L		03/20/13 09:37	03/20/13 21:15	1
2-Methylnaphthalene	6.66	J	100	5.2	ng/L		03/20/13 09:37	03/20/13 21:15	1
Naphthalene	ND		100	5.3	ng/L		03/20/13 09:37	03/20/13 21:15	1
Phenanthrene	ND		100	9.8	ng/L		03/20/13 09:37	03/20/13 21:15	1
Pyrene	9.49	J	100	8.1	ng/L		03/20/13 09:37	03/20/13 21:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*42 - 120*	*03/20/13 09:37*	*03/20/13 21:15*	*1*
Nitrobenzene-d5	*85*		*43 - 120*	*03/20/13 09:37*	*03/20/13 21:15*	*1*
Terphenyl-d14	*121*	*X*	*47 - 120*	*03/20/13 09:37*	*03/20/13 21:15*	*1*

Lab Sample ID: LCS 280-165672/2-A
Matrix: Water
Analysis Batch: 165841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	900	752		ng/L		84	47 - 120
Acenaphthylene	900	730		ng/L		81	39 - 120
Anthracene	900	725		ng/L		81	28 - 120
Benzo[a]anthracene	900	778		ng/L		86	42 - 120
Benzo[a]pyrene	900	771		ng/L		86	38 - 120
Benzo[b]fluoranthene	900	812		ng/L		90	44 - 120
Benzo[g,h,i]perylene	900	785		ng/L		87	39 - 120
Benzo[k]fluoranthene	900	801		ng/L		89	43 - 120
Chrysene	900	842		ng/L		94	35 - 120
Dibenz(a,h)anthracene	900	771		ng/L		86	27 - 126
Fluoranthene	900	771		ng/L		86	46 - 120
Fluorene	900	752		ng/L		84	49 - 120
Indeno[1,2,3-cd]pyrene	900	829		ng/L		92	38 - 120
Naphthalene	900	736		ng/L		82	37 - 120
Phenanthrene	900	815		ng/L		91	46 - 120
Pyrene	900	774		ng/L		86	49 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 280-165672/2-A
Matrix: Water
Analysis Batch: 165841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165672

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*42 - 120*
Nitrobenzene-d5	*84*		*43 - 120*
Terphenyl-d14	*99*		*47 - 120*

Lab Sample ID: LCSD 280-165672/3-A
Matrix: Water
Analysis Batch: 165841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165672

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	900	689		ng/L		77	47 - 120	9	50
Acenaphthylene	900	678		ng/L		75	39 - 120	7	50
Anthracene	900	678		ng/L		75	28 - 120	7	50
Benzo[a]anthracene	900	719		ng/L		80	42 - 120	8	40
Benzo[a]pyrene	900	709		ng/L		79	38 - 120	8	21
Benzo[b]fluoranthene	900	734		ng/L		82	44 - 120	10	28
Benzo[g,h,i]perylene	900	727		ng/L		81	39 - 120	8	23
Benzo[k]fluoranthene	900	746		ng/L		83	43 - 120	7	28
Chrysene	900	784		ng/L		87	35 - 120	7	41
Dibenz(a,h)anthracene	900	735		ng/L		82	27 - 126	5	25
Fluoranthene	900	713		ng/L		79	46 - 120	8	24
Fluorene	900	706		ng/L		78	49 - 120	6	50
Indeno[1,2,3-cd]pyrene	900	772		ng/L		86	38 - 120	7	25
Naphthalene	900	661		ng/L		73	37 - 120	11	50
Phenanthrene	900	757		ng/L		84	46 - 120	7	42
Pyrene	900	721		ng/L		80	49 - 120	7	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*42 - 120*
Nitrobenzene-d5	*78*		*43 - 120*
Terphenyl-d14	*85*		*47 - 120*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-165612/1-A
Matrix: Water
Analysis Batch: 165946

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 165612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:01	1
Barium	ND		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:01	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:01	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:01	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:01	1
Selenium	ND		5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:01	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:01	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-165612/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	40.0	42.1		ug/L		105	85 - 117
Barium	40.0	40.4		ug/L		101	85 - 118
Cadmium	40.0	41.4		ug/L		103	85 - 115
Chromium	40.0	40.5		ug/L		101	84 - 121
Lead	40.0	42.2		ug/L		106	85 - 118
Selenium	40.0	42.3		ug/L		106	77 - 122
Silver	40.0	43.4		ug/L		109	85 - 115

Lab Sample ID: 280-40054-D-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		40.0	41.9		ug/L		105	85 - 117
Barium	34		40.0	71.8		ug/L		95	85 - 118
Cadmium	0.14	J	40.0	38.8		ug/L		97	85 - 115
Chromium	ND		40.0	38.8		ug/L		97	84 - 121
Lead	ND		40.0	37.6		ug/L		94	85 - 118
Selenium	2.3	J	40.0	43.3		ug/L		102	77 - 122
Silver	ND		40.0	38.6		ug/L		97	85 - 115

Lab Sample ID: 280-40054-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.5		ug/L		104	85 - 117	1	20
Barium	34		40.0	72.6		ug/L		97	85 - 118	1	20
Cadmium	0.14	J	40.0	39.5		ug/L		98	85 - 115	2	20
Chromium	ND		40.0	38.7		ug/L		97	84 - 121	0	20
Lead	ND		40.0	37.5		ug/L		94	85 - 118	0	20
Selenium	2.3	J	40.0	45.5		ug/L		108	77 - 122	5	20
Silver	ND		40.0	38.8		ug/L		97	85 - 115	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-165702/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0720	J	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:21	1

Lab Sample ID: LCS 280-165702/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.93		ug/L		99	84 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-40054-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.067	J B	5.00	4.81		ug/L		95	75 - 125		

Lab Sample ID: 280-40054-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.067	J B	5.00	4.76		ug/L		94	75 - 125	1	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Client Sample ID: WAMW4

Lab Sample ID: 280-40058-1
Date Collected: 03/18/13 13:05
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 15:06	GPM	TAL DEN
Total/NA	Prep	3510C			1044.1 mL	1000 uL	165672	03/20/13 09:37	EER	TAL DEN
Total/NA	Analysis	8270C SIM		1			165841	03/20/13 22:34	JS	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:30	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:34	JM	TAL DEN

Client Sample ID: WAMW5

Lab Sample ID: 280-40058-2
Date Collected: 03/18/13 12:30
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 15:29	GPM	TAL DEN
Total/NA	Prep	3510C			1025.5 mL	1000 uL	165672	03/20/13 09:37	EER	TAL DEN
Total/NA	Analysis	8270C SIM		1			165841	03/20/13 23:00	JS	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:33	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:41	JM	TAL DEN

Client Sample ID: BVMW5

Lab Sample ID: 280-40058-3
Date Collected: 03/18/13 12:00
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 15:52	GPM	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:36	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:44	JM	TAL DEN

Client Sample ID: WAMW4D

Lab Sample ID: 280-40058-4
Date Collected: 03/18/13 00:00
Matrix: Water
Date Received: 03/19/13 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1028.1 mL	1000 uL	165672	03/20/13 09:37	EER	TAL DEN
Total/NA	Analysis	8270C SIM		1			165841	03/20/13 23:26	JS	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:39	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:46	JM	TAL DEN

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Cliff Brice

TestAmerica Job ID: 280-40058-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-40058-5

Date Collected: 03/18/13 12:00

Matrix: Water

Date Received: 03/19/13 08:05

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	165627	03/20/13 16:15	GPM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.1°, 2.8°, 1.0°

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umya	Date: 3/18/2013	Chain of Custody Number: 151332
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 1 of 1
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umya	Lab Contact: D. Rydberg	
Project Name and Location (State): Cliff Bosze	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-1010			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC + MTBE	Metals (dissolved)	PAH	Special Instructions/ Conditions of Receipt
WAMW4	3/18/2013	13:05		X			2		1	3			X	X	X	
WAMW5	↓	12:30		X			2		1	3			X	X	X	
BVMW5	↓	12:00		X					1	3			X	X		
WAMW4D	3/18/2013	—		X			2		1					X	X	
Trip Blank	—	—		X						2			X			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/19/2013	08:05	1. Received By: [signature]	3-19-13	0805
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-40058-1

Login Number: 40058

List Source: TestAmerica Denver

List Number: 1

Creator: Wheeler, Virginia L

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: 280-40054-1
Client Project/Site: Speker Metal

For:
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Attn: Craig Carter

Authorized for release by:
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LINKS

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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: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Qualifiers

GC/MS VOA

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.

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-40054-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Speker Metal

Report Number: 280-40054-1

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 March 19, 2013. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.0º C, 2.8º C and 3.1º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

The MS/MSD associated with batch 280-165627 exhibited spike recoveries outside QC control limits for several analytes. 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 volatiles analyses.

POLYCHLORINATED BIPHENYLS (PCBS)

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

Matrix spike samples were not requested and they could not be performed due to insufficient sample volume. The associated LCS and LCSD were in control and demonstrate that operating procedures were in control. No further action was required.

No difficulties were encountered during the PCBs analyses.

DISSOLVED METALS

Mercury was detected in method blank MB 280-165702/1-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 difficulties were encountered during the dissolved metals analyses.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Client Sample ID: WAMW6 — Lab Sample ID: 280-40054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34		1.0	0.29	ug/L	1		6020	Dissolved
Cadmium	0.14	J	1.0	0.10	ug/L	1		6020	Dissolved
Selenium	2.3	J	5.0	0.70	ug/L	1		6020	Dissolved
Mercury	0.067	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: WAMW7 — Lab Sample ID: 280-40054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.7	J	10	1.9	ug/L	1		8260B	Total/NA
Barium	34		1.0	0.29	ug/L	1		6020	Dissolved
Cadmium	0.18	J	1.0	0.10	ug/L	1		6020	Dissolved
Lead	0.36	J	1.0	0.18	ug/L	1		6020	Dissolved
Selenium	0.91	J	5.0	0.70	ug/L	1		6020	Dissolved
Mercury	0.066	J B	0.20	0.027	ug/L	1		7470A	Dissolved

Client Sample ID: WAMW7D — Lab Sample ID: 280-40054-3

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-40054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	1.9	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
7470A	Mercury (CVAA)	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: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-40054-1	WAMW6	Water	03/18/13 13:45	03/19/13 08:05
280-40054-2	WAMW7	Water	03/18/13 14:30	03/19/13 08:05
280-40054-3	WAMW7D	Water	03/18/13 00:00	03/19/13 08:05
280-40054-4	TRIP BLANK	Water	03/18/13 13:45	03/19/13 08:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WAMW6
Date Collected: 03/18/13 13:45
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40054-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			03/20/13 13:56	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 13:56	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 13:56	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 13:56	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 13:56	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 13:56	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 13:56	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 13:56	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 13:56	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 13:56	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 13:56	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 13:56	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 13:56	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:56	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 13:56	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 13:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 13:56	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 13:56	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 13:56	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 13:56	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 13:56	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 13:56	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 13:56	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 13:56	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 13:56	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 13:56	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 13:56	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 13:56	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 13:56	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 13:56	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 13:56	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 13:56	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 13:56	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 13:56	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 13:56	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 13:56	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 13:56	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 13:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 13:56	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 13:56	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 13:56	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:56	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 13:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:56	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 13:56	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 13:56	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 13:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW6 — **Lab Sample ID: 280-40054-1**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 13:56	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 13:56	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 13:56	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*03/20/13 13:56*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*03/20/13 13:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*03/20/13 13:56*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/20/13 13:56*	*1*

Client Sample ID: WAMW7 — **Lab Sample ID: 280-40054-2**
Date Collected: 03/18/13 14:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.7**	**J**	10	1.9	ug/L			03/20/13 14:19	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 14:19	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 14:19	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 14:19	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 14:19	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 14:19	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 14:19	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 14:19	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 14:19	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 14:19	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 14:19	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 14:19	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 14:19	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 14:19	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 14:19	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 14:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 14:19	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 14:19	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 14:19	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 14:19	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 14:19	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 14:19	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 14:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 14:19	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 14:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 14:19	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 14:19	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 14:19	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 14:19	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 14:19	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 14:19	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 14:19	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 14:19	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 14:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW7 — **Lab Sample ID: 280-40054-2**
Date Collected: 03/18/13 14:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 14:19	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 14:19	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 14:19	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 14:19	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 14:19	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 14:19	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 14:19	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 14:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 14:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 14:19	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 14:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 14:19	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 14:19	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 14:19	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 14:19	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 14:19	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/20/13 14:19*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*03/20/13 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*03/20/13 14:19*	*1*
Toluene-d8 (Surr)	*92*		*80 - 125*		*03/20/13 14:19*	*1*

Client Sample ID: TRIP BLANK — **Lab Sample ID: 280-40054-4**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.9**	**J**	10	1.9	ug/L			03/20/13 14:42	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 14:42	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 14:42	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 14:42	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 14:42	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 14:42	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 14:42	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 14:42	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 14:42	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 14:42	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 14:42	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 14:42	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 14:42	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 14:42	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 14:42	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 14:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 14:42	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 14:42	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 14:42	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 14:42	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 14:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK — **Lab Sample ID: 280-40054-4**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 14:42	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 14:42	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 14:42	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 14:42	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 14:42	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 14:42	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 14:42	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 14:42	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 14:42	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 14:42	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 14:42	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 14:42	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 14:42	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 14:42	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 14:42	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 14:42	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 14:42	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 14:42	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 14:42	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 14:42	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 14:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 14:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 14:42	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 14:42	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 14:42	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 14:42	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 14:42	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 14:42	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 14:42	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*03/20/13 14:42*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*03/20/13 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*03/20/13 14:42*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/20/13 14:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WAMW6 — **Lab Sample ID: 280-40054-1**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.97	0.12	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1221	ND		0.97	0.21	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1232	ND		0.97	0.16	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1242	ND		0.97	0.10	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1248	ND		0.97	0.089	ug/L		03/20/13 09:33	03/21/13 16:03	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: WAMW6 — **Lab Sample ID: 280-40054-1**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.97	0.11	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1260	ND		0.97	0.16	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1262	ND		0.97	0.082	ug/L		03/20/13 09:33	03/21/13 16:03	1
PCB-1268	ND		0.97	0.35	ug/L		03/20/13 09:33	03/21/13 16:03	1
Polychlorinated biphenyls, Total	ND		0.97	0.082	ug/L		03/20/13 09:33	03/21/13 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*30 - 136*	*03/20/13 09:33*	*03/21/13 16:03*	*1*
Tetrachloro-m-xylene	*89*		*25 - 120*	*03/20/13 09:33*	*03/21/13 16:03*	*1*

Client Sample ID: WAMW7 — **Lab Sample ID: 280-40054-2**
Date Collected: 03/18/13 14:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.96	0.12	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1221	ND		0.96	0.21	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1232	ND		0.96	0.16	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1242	ND		0.96	0.10	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1248	ND		0.96	0.088	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1254	ND		0.96	0.11	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1260	ND		0.96	0.15	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1262	ND		0.96	0.081	ug/L		03/20/13 09:33	03/21/13 16:26	1
PCB-1268	ND		0.96	0.35	ug/L		03/20/13 09:33	03/21/13 16:26	1
Polychlorinated biphenyls, Total	ND		0.96	0.081	ug/L		03/20/13 09:33	03/21/13 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*30 - 136*	*03/20/13 09:33*	*03/21/13 16:26*	*1*
Tetrachloro-m-xylene	*89*		*25 - 120*	*03/20/13 09:33*	*03/21/13 16:26*	*1*

Client Sample ID: WAMW7D — **Lab Sample ID: 280-40054-3**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.95	0.12	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1221	ND		0.95	0.20	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1232	ND		0.95	0.16	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1242	ND		0.95	0.099	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1248	ND		0.95	0.087	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1254	ND		0.95	0.11	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1260	ND		0.95	0.15	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1262	ND		0.95	0.080	ug/L		03/20/13 09:33	03/21/13 16:49	1
PCB-1268	ND		0.95	0.34	ug/L		03/20/13 09:33	03/21/13 16:49	1
Polychlorinated biphenyls, Total	ND		0.95	0.080	ug/L		03/20/13 09:33	03/21/13 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*30 - 136*	*03/20/13 09:33*	*03/21/13 16:49*	*1*
Tetrachloro-m-xylene	*95*		*25 - 120*	*03/20/13 09:33*	*03/21/13 16:49*	*1*

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: WAMW6 — **Lab Sample ID: 280-40054-1**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:07	1
Barium	**34**		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:07	1
Cadmium	**0.14**	**J**	1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:07	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:07	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:07	1
Selenium	**2.3**	**J**	5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:07	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:07	1

Client Sample ID: WAMW7 — **Lab Sample ID: 280-40054-2**
Date Collected: 03/18/13 14:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:22	1
Barium	**34**		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:22	1
Cadmium	**0.18**	**J**	1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:22	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:22	1
Lead	**0.36**	**J**	1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:22	1
Selenium	**0.91**	**J**	5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:22	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: WAMW6 — **Lab Sample ID: 280-40054-1**
Date Collected: 03/18/13 13:45 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**	**J B**	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:25	1

Client Sample ID: WAMW7 — **Lab Sample ID: 280-40054-2**
Date Collected: 03/18/13 14:30 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**	**J B**	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:32	1

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

GC/MS VOA

Analysis Batch: 165627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40045-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-40045-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
280-40054-1	WAMW6	Total/NA	Water	8260B	
280-40054-2	WAMW7	Total/NA	Water	8260B	
280-40054-4	TRIP BLANK	Total/NA	Water	8260B	
LCS 280-165627/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-165627/5	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 165667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Total/NA	Water	3510C	
280-40054-2	WAMW7	Total/NA	Water	3510C	
280-40054-3	WAMW7D	Total/NA	Water	3510C	
LCS 280-165667/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-165667/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 280-165667/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 165908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Total/NA	Water	8082	165667
280-40054-2	WAMW7	Total/NA	Water	8082	165667
280-40054-3	WAMW7D	Total/NA	Water	8082	165667
LCS 280-165667/2-A	Lab Control Sample	Total/NA	Water	8082	165667
LCSD 280-165667/3-A	Lab Control Sample Dup	Total/NA	Water	8082	165667
MB 280-165667/1-A	Method Blank	Total/NA	Water	8082	165667

Metals

Prep Batch: 165612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Dissolved	Water	3005A	
280-40054-1 MS	WAMW6	Dissolved	Water	3005A	
280-40054-1 MSD	WAMW6	Dissolved	Water	3005A	
280-40054-2	WAMW7	Dissolved	Water	3005A	
LCS 280-165612/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-165612/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 165702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Dissolved	Water	7470A	
280-40054-1 MS	WAMW6	Dissolved	Water	7470A	
280-40054-1 MSD	WAMW6	Dissolved	Water	7470A	
280-40054-2	WAMW7	Dissolved	Water	7470A	
LCS 280-165702/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-165702/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 165946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Dissolved	Water	6020	165612
280-40054-1 MS	WAMW6	Dissolved	Water	6020	165612
280-40054-1 MSD	WAMW6	Dissolved	Water	6020	165612
280-40054-2	WAMW7	Dissolved	Water	6020	165612
LCS 280-165612/2-A	Lab Control Sample	Total Recoverable	Water	6020	165612
MB 280-165612/1-A	Method Blank	Total Recoverable	Water	6020	165612

Analysis Batch: 165986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40054-1	WAMW6	Dissolved	Water	7470A	165702
280-40054-1 MS	WAMW6	Dissolved	Water	7470A	165702
280-40054-1 MSD	WAMW6	Dissolved	Water	7470A	165702
280-40054-2	WAMW7	Dissolved	Water	7470A	165702
LCS 280-165702/2-A	Lab Control Sample	Total/NA	Water	7470A	165702
MB 280-165702/1-A	Method Blank	Total/NA	Water	7470A	165702

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

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			03/20/13 07:24	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 07:24	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 07:24	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 07:24	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 07:24	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 07:24	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 07:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 07:24	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 07:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 07:24	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 07:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 07:24	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 07:24	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 07:24	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 07:24	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 07:24	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 07:24	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 07:24	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 07:24	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 07:24	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 07:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 07:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 07:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 07:24	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 07:24	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 07:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*03/20/13 07:24*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 07:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*03/20/13 07:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*03/20/13 07:24*	*1*

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

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	24.2		ug/L		121	50 - 156
Benzene	5.00	4.65		ug/L		93	74 - 135
Bromoform	5.00	4.15		ug/L		83	62 - 135
Bromomethane	5.00	5.17		ug/L		103	38 - 150
2-Butanone (MEK)	20.0	16.8		ug/L		84	44 - 150
Carbon disulfide	5.00	3.78		ug/L		76	34 - 150
Carbon tetrachloride	5.00	4.86		ug/L		97	67 - 135
Chlorobenzene	5.00	4.64		ug/L		93	76 - 135
Chlorobromomethane	5.00	4.68		ug/L		94	70 - 135
Chlorodibromomethane	5.00	4.91		ug/L		98	68 - 135
Chloroethane	5.00	5.12		ug/L		102	46 - 147
Chloroform	5.00	4.78		ug/L		96	76 - 120
Chloromethane	5.00	5.45		ug/L		109	34 - 145
cis-1,2-Dichloroethene	5.00	4.75		ug/L		95	73 - 135
cis-1,3-Dichloropropene	5.00	5.04		ug/L		101	66 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.21	J	ug/L		84	65 - 150
1,2-Dibromoethane	5.00	4.75		ug/L		95	71 - 135
1,2-Dichlorobenzene	5.00	4.58		ug/L		92	75 - 135
1,3-Dichlorobenzene	5.00	4.67		ug/L		93	74 - 135
1,4-Dichlorobenzene	5.00	4.72		ug/L		94	75 - 135
Dichlorobromomethane	5.00	4.49		ug/L		90	73 - 135
Dichlorodifluoromethane	5.00	4.53		ug/L		91	28 - 152
1,1-Dichloroethane	5.00	4.81		ug/L		96	75 - 135
1,2-Dichloroethane	5.00	4.56		ug/L		91	70 - 135
1,1-Dichloroethene	5.00	5.57		ug/L		111	71 - 136
1,2-Dichloropropane	5.00	4.54		ug/L		91	71 - 120
Ethylbenzene	5.00	4.69		ug/L		94	72 - 120
2-Hexanone	20.0	17.3		ug/L		86	47 - 150
Isopropylbenzene	5.00	4.72		ug/L		94	75 - 135
Methylene Chloride	5.00	4.74		ug/L		95	54 - 141
4-Methyl-2-pentanone (MIBK)	20.0	16.1		ug/L		80	53 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5.00	4.11	J	ug/L		82	46 - 135
m-Xylene & p-Xylene	10.0	9.05		ug/L		91	74 - 135
o-Xylene	5.00	4.59		ug/L		92	73 - 135
Styrene	5.00	4.47		ug/L		89	68 - 135
1,1,2,2-Tetrachloroethane	5.00	4.41		ug/L		88	66 - 135
Tetrachloroethene	5.00	5.14		ug/L		103	70 - 135
Toluene	5.00	4.23		ug/L		85	73 - 120
trans-1,2-Dichloroethene	5.00	4.96		ug/L		99	75 - 135
trans-1,3-Dichloropropene	5.00	4.07		ug/L		81	68 - 135
1,2,3-Trichlorobenzene	5.00	4.56		ug/L		91	60 - 135
1,2,4-Trichlorobenzene	5.00	4.64		ug/L		93	64 - 135
1,1,1-Trichloroethane	5.00	4.98		ug/L		100	70 - 135
1,1,2-Trichloroethane	5.00	4.02		ug/L		80	73 - 135
Trichloroethene	5.00	4.61		ug/L		92	73 - 135
Trichlorofluoromethane	5.00	4.96		ug/L		99	47 - 150
Vinyl chloride	5.00	4.99		ug/L		100	40 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*103*		*80 - 125*

Lab Sample ID: 280-40045-A-1 MS
Matrix: Water
Analysis Batch: 165627

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	5.9	J	20.0	30.1		ug/L		121	50 - 156
Benzene	ND		5.00	4.80		ug/L		96	74 - 135
Bromoform	ND		5.00	4.65		ug/L		93	62 - 135
Bromomethane	ND		5.00	6.64		ug/L		133	38 - 150
2-Butanone (MEK)	ND		20.0	19.2		ug/L		96	44 - 150
Carbon disulfide	ND		5.00	5.12		ug/L		102	34 - 150
Carbon tetrachloride	ND		5.00	5.22		ug/L		104	67 - 135
Chlorobenzene	ND		5.00	4.86		ug/L		97	76 - 135
Chlorobromomethane	ND		5.00	5.23		ug/L		105	70 - 135
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135
Chloroethane	ND		5.00	7.03		ug/L		141	46 - 147
Chloroform	ND		5.00	4.95		ug/L		99	76 - 120
Chloromethane	ND		5.00	6.31		ug/L		126	34 - 145
cis-1,2-Dichloroethene	ND		5.00	5.01		ug/L		100	73 - 135
cis-1,3-Dichloropropene	ND		5.00	4.69		ug/L		94	66 - 135
1,2-Dibromo-3-Chloropropane	ND		5.00	4.66	J	ug/L		93	65 - 150
1,2-Dibromoethane	ND		5.00	4.86		ug/L		97	71 - 135
1,2-Dichlorobenzene	ND		5.00	4.90		ug/L		98	75 - 135
1,3-Dichlorobenzene	ND		5.00	4.83		ug/L		97	74 - 135
1,4-Dichlorobenzene	ND		5.00	5.01		ug/L		100	75 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-A-1 MS
Matrix: Water
Analysis Batch: 165627

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
Dichlorobromomethane	ND		5.00	4.80		ug/L		96	73 - 135
Dichlorodifluoromethane	ND		5.00	5.53		ug/L		111	28 - 152
1,1-Dichloroethane	ND		5.00	5.03		ug/L		101	75 - 135
1,2-Dichloroethane	ND		5.00	4.81		ug/L		96	70 - 135
1,1-Dichloroethene	ND		5.00	7.42	F	ug/L		148	71 - 136
1,2-Dichloropropane	ND		5.00	4.62		ug/L		92	71 - 120
Ethylbenzene	ND		5.00	4.87		ug/L		97	72 - 120
2-Hexanone	ND		20.0	17.8		ug/L		89	47 - 150
Isopropylbenzene	ND		5.00	4.85		ug/L		97	75 - 135
Methylene Chloride	ND		5.00	6.28		ug/L		126	54 - 141
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.4		ug/L		92	53 - 150
Methyl tert-butyl ether	0.25	J	5.00	5.98		ug/L		120	46 - 135
m-Xylene & p-Xylene	ND		10.0	9.63		ug/L		96	74 - 135
o-Xylene	ND		5.00	4.83		ug/L		97	73 - 135
Styrene	ND		5.00	4.73		ug/L		95	68 - 135
1,1,2,2-Tetrachloroethane	ND		5.00	4.75		ug/L		95	66 - 135
Tetrachloroethene	ND		5.00	5.22		ug/L		104	70 - 135
Toluene	ND		5.00	4.85		ug/L		97	73 - 120
trans-1,2-Dichloroethene	ND		5.00	6.67		ug/L		133	75 - 135
trans-1,3-Dichloropropene	ND		5.00	4.83		ug/L		97	68 - 135
1,2,3-Trichlorobenzene	ND		5.00	4.73		ug/L		95	60 - 135
1,2,4-Trichlorobenzene	ND		5.00	4.75		ug/L		95	64 - 135
1,1,1-Trichloroethane	ND		5.00	5.15		ug/L		103	70 - 135
1,1,2-Trichloroethane	ND		5.00	4.72		ug/L		94	73 - 135
Trichloroethene	ND		5.00	4.83		ug/L		97	73 - 135
Trichlorofluoromethane	ND		5.00	6.26		ug/L		125	47 - 150
Vinyl chloride	ND		5.00	6.66		ug/L		133	40 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: 280-40045-A-1 MSD
Matrix: Water
Analysis Batch: 165627

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
Acetone	5.9	J	20.0	31.3		ug/L		127	50 - 156	4	41
Benzene	ND		5.00	4.76		ug/L		95	74 - 135	1	20
Bromoform	ND		5.00	4.75		ug/L		95	62 - 135	2	21
Bromomethane	ND		5.00	6.94		ug/L		139	38 - 150	4	24
2-Butanone (MEK)	ND		20.0	20.7		ug/L		103	44 - 150	8	32
Carbon disulfide	ND		5.00	5.45		ug/L		109	34 - 150	6	20
Carbon tetrachloride	ND		5.00	5.13		ug/L		103	67 - 135	2	21
Chlorobenzene	ND		5.00	4.79		ug/L		96	76 - 135	1	20
Chlorobromomethane	ND		5.00	5.29		ug/L		106	70 - 135	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-A-1 MSD
Matrix: Water
Analysis Batch: 165627

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
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135	0	20
Chloroethane	ND		5.00	7.42	F	ug/L		148	46 - 147	5	25
Chloroform	ND		5.00	4.93		ug/L		99	76 - 120	0	20
Chloromethane	ND		5.00	7.46	F	ug/L		149	34 - 145	17	24
cis-1,2-Dichloroethene	ND		5.00	4.96		ug/L		99	73 - 135	1	20
cis-1,3-Dichloropropene	ND		5.00	4.70		ug/L		94	66 - 135	0	20
1,2-Dibromo-3-Chloropropane	ND		5.00	4.82	J	ug/L		96	65 - 150	3	22
1,2-Dibromoethane	ND		5.00	4.93		ug/L		99	71 - 135	2	20
1,2-Dichlorobenzene	ND		5.00	4.63		ug/L		93	75 - 135	6	20
1,3-Dichlorobenzene	ND		5.00	4.70		ug/L		94	74 - 135	3	20
1,4-Dichlorobenzene	ND		5.00	4.83		ug/L		97	75 - 135	4	23
Dichlorobromomethane	ND		5.00	4.79		ug/L		96	73 - 135	0	20
Dichlorodifluoromethane	ND		5.00	6.01		ug/L		120	28 - 152	8	24
1,1-Dichloroethane	ND		5.00	4.98		ug/L		100	75 - 135	1	21
1,2-Dichloroethane	ND		5.00	4.84		ug/L		97	70 - 135	0	20
1,1-Dichloroethene	ND		5.00	7.37	F	ug/L		147	71 - 136	1	20
1,2-Dichloropropane	ND		5.00	4.54		ug/L		91	71 - 120	2	20
Ethylbenzene	ND		5.00	4.79		ug/L		96	72 - 120	2	26
2-Hexanone	ND		20.0	18.1		ug/L		90	47 - 150	1	25
Isopropylbenzene	ND		5.00	4.64		ug/L		93	75 - 135	4	20
Methylene Chloride	ND		5.00	6.37		ug/L		127	54 - 141	1	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	19.5		ug/L		97	53 - 150	6	22
Methyl tert-butyl ether	0.25	J	5.00	6.12		ug/L		122	46 - 135	2	21
m-Xylene & p-Xylene	ND		10.0	9.24		ug/L		92	74 - 135	4	20
o-Xylene	ND		5.00	4.63		ug/L		93	73 - 135	4	20
Styrene	ND		5.00	4.72		ug/L		94	68 - 135	0	20
1,1,2,2-Tetrachloroethane	ND		5.00	4.76		ug/L		95	66 - 135	0	20
Tetrachloroethene	ND		5.00	5.10		ug/L		102	70 - 135	2	20
Toluene	ND		5.00	4.79		ug/L		96	73 - 120	1	20
trans-1,2-Dichloroethene	ND		5.00	6.71		ug/L		134	75 - 135	1	24
trans-1,3-Dichloropropene	ND		5.00	4.86		ug/L		97	68 - 135	1	20
1,2,3-Trichlorobenzene	ND		5.00	4.76		ug/L		95	60 - 135	1	29
1,2,4-Trichlorobenzene	ND		5.00	4.76		ug/L		95	64 - 135	0	25
1,1,1-Trichloroethane	ND		5.00	5.08		ug/L		102	70 - 135	1	20
1,1,2-Trichloroethane	ND		5.00	4.68		ug/L		94	73 - 135	1	21
Trichloroethene	ND		5.00	4.71		ug/L		94	73 - 135	3	20
Trichlorofluoromethane	ND		5.00	6.72		ug/L		134	47 - 150	7	20
Vinyl chloride	ND		5.00	7.24	F	ug/L		145	40 - 144	8	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-165667/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.12	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1221	ND		1.0	0.21	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1232	ND		1.0	0.17	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1242	ND		1.0	0.10	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1248	ND		1.0	0.092	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1254	ND		1.0	0.11	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1260	ND		1.0	0.16	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1262	ND		1.0	0.085	ug/L		03/20/13 09:33	03/21/13 14:53	1
PCB-1268	ND		1.0	0.36	ug/L		03/20/13 09:33	03/21/13 14:53	1
Polychlorinated biphenyls, Total	ND		1.0	0.085	ug/L		03/20/13 09:33	03/21/13 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*30 - 136*	*03/20/13 09:33*	*03/21/13 14:53*	*1*
Tetrachloro-m-xylene	*85*		*25 - 120*	*03/20/13 09:33*	*03/21/13 14:53*	*1*

Lab Sample ID: LCS 280-165667/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.00	2.13		ug/L		106	58 - 128
PCB-1260	2.00	2.32		ug/L		116	69 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*30 - 136*
Tetrachloro-m-xylene	*89*		*25 - 120*

Lab Sample ID: LCSD 280-165667/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165908 — **Prep Batch: 165667**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	2.00	2.17		ug/L		108	58 - 128	2	30
PCB-1260	2.00	2.35		ug/L		117	69 - 140	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*30 - 136*
Tetrachloro-m-xylene	*88*		*25 - 120*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-165612/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.33	ug/L		03/20/13 12:30	03/21/13 09:01	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-165612/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		1.0	0.29	ug/L		03/20/13 12:30	03/21/13 09:01	1
Cadmium	ND		1.0	0.10	ug/L		03/20/13 12:30	03/21/13 09:01	1
Chromium	ND		2.0	0.50	ug/L		03/20/13 12:30	03/21/13 09:01	1
Lead	ND		1.0	0.18	ug/L		03/20/13 12:30	03/21/13 09:01	1
Selenium	ND		5.0	0.70	ug/L		03/20/13 12:30	03/21/13 09:01	1
Silver	ND		5.0	0.033	ug/L		03/20/13 12:30	03/21/13 09:01	1

Lab Sample ID: LCS 280-165612/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	40.0	42.1		ug/L		105	85 - 117
Barium	40.0	40.4		ug/L		101	85 - 118
Cadmium	40.0	41.4		ug/L		103	85 - 115
Chromium	40.0	40.5		ug/L		101	84 - 121
Lead	40.0	42.2		ug/L		106	85 - 118
Selenium	40.0	42.3		ug/L		106	77 - 122
Silver	40.0	43.4		ug/L		109	85 - 115

Lab Sample ID: 280-40054-1 MS — **Client Sample ID: WAMW6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		40.0	41.9		ug/L		105	85 - 117
Barium	34		40.0	71.8		ug/L		95	85 - 118
Cadmium	0.14	J	40.0	38.8		ug/L		97	85 - 115
Chromium	ND		40.0	38.8		ug/L		97	84 - 121
Lead	ND		40.0	37.6		ug/L		94	85 - 118
Selenium	2.3	J	40.0	43.3		ug/L		102	77 - 122
Silver	ND		40.0	38.6		ug/L		97	85 - 115

Lab Sample ID: 280-40054-1 MSD — **Client Sample ID: WAMW6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165946 — **Prep Batch: 165612**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.5		ug/L		104	85 - 117	1	20
Barium	34		40.0	72.6		ug/L		97	85 - 118	1	20
Cadmium	0.14	J	40.0	39.5		ug/L		98	85 - 115	2	20
Chromium	ND		40.0	38.7		ug/L		97	84 - 121	0	20
Lead	ND		40.0	37.5		ug/L		94	85 - 118	0	20
Selenium	2.3	J	40.0	45.5		ug/L		108	77 - 122	5	20
Silver	ND		40.0	38.8		ug/L		97	85 - 115	1	20

QC Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-165702/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0720	J	0.20	0.027	ug/L		03/20/13 12:30	03/20/13 21:21	1

Lab Sample ID: LCS 280-165702/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.93		ug/L		99	84 - 120		

Lab Sample ID: 280-40054-1 MS — **Client Sample ID: WAMW6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.067	J B	5.00	4.81		ug/L		95	75 - 125		

Lab Sample ID: 280-40054-1 MSD — **Client Sample ID: WAMW6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 165986 — **Prep Batch: 165702**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.067	J B	5.00	4.76		ug/L		94	75 - 125	1	20

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Speker Metal

TestAmerica Job ID: 280-40054-1

Client Sample ID: WAMW6

Lab Sample ID: 280-40054-1
Date Collected: 03/18/13 13:45
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 13:56	GPM	TAL DEN
Total/NA	Prep	3510C			1031.9 mL	10000 uL	165667	03/20/13 09:33	EER	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 16:03	TDJ	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:07	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:25	JM	TAL DEN

Client Sample ID: WAMW7

Lab Sample ID: 280-40054-2
Date Collected: 03/18/13 14:30
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 14:19	GPM	TAL DEN
Total/NA	Prep	3510C			1043.2 mL	10000 uL	165667	03/20/13 09:33	EER	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 16:26	TDJ	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	165612	03/20/13 12:30	RC	TAL DEN
Dissolved	Analysis	6020		1			165946	03/21/13 09:22	TEL	TAL DEN
Dissolved	Prep	7470A			30 mL	30 mL	165702	03/20/13 12:30	JM	TAL DEN
Dissolved	Analysis	7470A		1			165986	03/20/13 21:32	JM	TAL DEN

Client Sample ID: WAMW7D

Lab Sample ID: 280-40054-3
Date Collected: 03/18/13 00:00
Matrix: Water
Date Received: 03/19/13 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1052.4 mL	10000 uL	165667	03/20/13 09:33	EER	TAL DEN
Total/NA	Analysis	8082		1			165908	03/21/13 16:49	TDJ	TAL DEN

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-40054-4
Date Collected: 03/18/13 13:45
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 14:42	GPM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.1°, 2.8° 1.0°

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umyn	Date: 3/18/2013	Chain of Custody Number: 151333
Address: 820 16th Street #400	Telephone Number (Area Code)/Fax Number: 303.573.5545 / 303.573.5525	Lab Number	Page 1 of 1
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: A. Rydberg	
Project Name and Location (State): Spokane Metal	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-10110			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs	Metals (Diss.)	PCBs	Special Instructions/ Conditions of Receipt
WAMW6	3/18/2013	13:45		X			2		1	3			X	X	X	
WAMW7	↓	14:30		X			2		1	3			X	X	X	
WAMW7D	3/18/2013	—		X			2								X	
Trip Blank	—	—		X			2						X			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: A. Umyn	3/19/2013	08:05	1. Received By: M Watts	3-19-13	0805
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-40054-1

Login Number: 40054

List Source: TestAmerica Denver

List Number: 1

Creator: Wheeler, Virginia L

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: 280-40045-1
Client Project/Site: Wagner Rental

For:
Walsh Enviro Scientist & Engineering
820 16th Street, Suite 400
Denver, Colorado 80202

Attn: Craig Carter

Authorized for release by:
3/21/2013 2:27:33 PM
Jamie Ide
Project Mgmt. Assistant
jamie.ide@testamericainc.com

Designee for

Donna Rydberg
Project Manager II
donna.rydberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

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

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
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)

Job ID: 280-40045-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Walsh Enviro Scientist & Engineering

Project: Wagner Rental

Report Number: 280-40045-1

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 March 19, 2013. The samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.1C and 2.8C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

The MS/MSD associated with batch 280-165627, performed on sample WAMW1 (280-40045-1) exhibited spike recoveries outside QC control limits for several analytes. 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 volatiles analyses.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

Client Sample ID: WAMW1 — Lab Sample ID: 280-40045-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J	10	1.9	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.25	J	5.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: WAMW2 — Lab Sample ID: 280-40045-2

No Detections

Client Sample ID: WAMW3 — Lab Sample ID: 280-40045-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	10	1.9	ug/L	1		8260B	Total/NA

Client Sample ID: BVMW2 — Lab Sample ID: 280-40045-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	1.9	ug/L	1		8260B	Total/NA

Client Sample ID: WAMW1D — Lab Sample ID: 280-40045-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	1.9	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.27	J	5.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-40045-6

No Detections

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-40045-1	WAMW1	Water	03/18/13 09:15	03/19/13 08:05
280-40045-2	WAMW2	Water	03/18/13 10:00	03/19/13 08:05
280-40045-3	WAMW3	Water	03/18/13 11:25	03/19/13 08:05
280-40045-4	BVMW2	Water	03/18/13 10:55	03/19/13 08:05
280-40045-5	WAMW1D	Water	03/18/13 00:00	03/19/13 08:05
280-40045-6	TRIP BLANK	Water	03/18/13 09:15	03/19/13 08:05

Client Sample Results

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WAMW1
Date Collected: 03/18/13 09:15
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40045-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.9**	**J**	10	1.9	ug/L			03/20/13 10:52	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 10:52	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 10:52	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 10:52	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 10:52	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 10:52	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 10:52	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 10:52	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 10:52	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 10:52	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 10:52	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 10:52	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 10:52	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 10:52	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 10:52	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 10:52	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 10:52	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 10:52	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 10:52	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 10:52	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 10:52	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 10:52	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 10:52	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 10:52	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 10:52	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 10:52	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 10:52	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 10:52	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 10:52	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 10:52	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 10:52	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 10:52	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 10:52	1
Methyl tert-butyl ether	**0.25**	**J**	5.0	0.25	ug/L			03/20/13 10:52	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 10:52	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 10:52	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 10:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 10:52	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 10:52	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 10:52	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 10:52	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 10:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 10:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 10:52	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 10:52	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 10:52	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 10:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW1 — **Lab Sample ID: 280-40045-1**
Date Collected: 03/18/13 09:15 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 10:52	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 10:52	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 10:52	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/20/13 10:52*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/20/13 10:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*03/20/13 10:52*	*1*
Toluene-d8 (Surr)	*92*		*80 - 125*		*03/20/13 10:52*	*1*

Client Sample ID: WAMW2 — **Lab Sample ID: 280-40045-2**
Date Collected: 03/18/13 10:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			03/20/13 12:01	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 12:01	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 12:01	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 12:01	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 12:01	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 12:01	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 12:01	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 12:01	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 12:01	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 12:01	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 12:01	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 12:01	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 12:01	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:01	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 12:01	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 12:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 12:01	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 12:01	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 12:01	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 12:01	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 12:01	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 12:01	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 12:01	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 12:01	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 12:01	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 12:01	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 12:01	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 12:01	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 12:01	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 12:01	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 12:01	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 12:01	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 12:01	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 12:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 12:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW2 — **Lab Sample ID: 280-40045-2**
Date Collected: 03/18/13 10:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 12:01	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 12:01	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 12:01	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 12:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 12:01	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 12:01	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 12:01	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:01	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 12:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:01	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 12:01	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 12:01	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 12:01	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 12:01	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 12:01	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 12:01	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/20/13 12:01*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*03/20/13 12:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*03/20/13 12:01*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/20/13 12:01*	*1*

Client Sample ID: WAMW3 — **Lab Sample ID: 280-40045-3**
Date Collected: 03/18/13 11:25 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.8**	**J**	10	1.9	ug/L			03/20/13 12:24	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 12:24	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 12:24	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 12:24	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 12:24	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 12:24	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 12:24	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 12:24	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 12:24	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 12:24	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 12:24	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 12:24	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 12:24	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:24	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 12:24	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 12:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 12:24	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 12:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 12:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 12:24	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 12:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW3 — **Lab Sample ID: 280-40045-3**
Date Collected: 03/18/13 11:25 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 12:24	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 12:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 12:24	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 12:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 12:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 12:24	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 12:24	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 12:24	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 12:24	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 12:24	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 12:24	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 12:24	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 12:24	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 12:24	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 12:24	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 12:24	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 12:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 12:24	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 12:24	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 12:24	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:24	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 12:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:24	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 12:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 12:24	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 12:24	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 12:24	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 12:24	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 12:24	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*03/20/13 12:24*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*03/20/13 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*03/20/13 12:24*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/20/13 12:24*	*1*

Client Sample ID: BVMW2 — **Lab Sample ID: 280-40045-4**
Date Collected: 03/18/13 10:55 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.9**	**J**	10	1.9	ug/L			03/20/13 12:47	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 12:47	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 12:47	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 12:47	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 12:47	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 12:47	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 12:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: BVMW2
Date Collected: 03/18/13 10:55
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40045-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 12:47	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 12:47	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 12:47	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 12:47	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 12:47	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 12:47	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:47	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 12:47	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 12:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 12:47	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 12:47	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 12:47	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 12:47	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 12:47	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 12:47	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 12:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 12:47	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 12:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 12:47	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 12:47	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 12:47	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 12:47	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 12:47	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 12:47	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 12:47	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 12:47	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 12:47	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 12:47	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 12:47	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 12:47	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 12:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 12:47	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 12:47	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 12:47	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 12:47	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 12:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 12:47	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 12:47	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 12:47	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 12:47	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 12:47	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 12:47	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 12:47	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/20/13 12:47*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*03/20/13 12:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: BVMW2 — **Lab Sample ID: 280-40045-4**
Date Collected: 03/18/13 10:55 — **Matrix: Water**
Date Received: 03/19/13 08:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*03/20/13 12:47*	*1*
Toluene-d8 (Surr)	*90*		*80 - 125*		*03/20/13 12:47*	*1*

Client Sample ID: WAMW1D — **Lab Sample ID: 280-40045-5**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.8**	**J**	10	1.9	ug/L			03/20/13 13:10	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 13:10	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 13:10	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 13:10	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 13:10	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 13:10	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 13:10	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 13:10	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 13:10	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 13:10	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 13:10	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 13:10	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 13:10	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:10	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 13:10	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 13:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 13:10	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 13:10	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 13:10	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 13:10	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 13:10	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 13:10	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 13:10	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 13:10	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 13:10	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 13:10	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 13:10	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 13:10	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 13:10	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 13:10	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 13:10	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 13:10	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 13:10	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 13:10	1
Methyl tert-butyl ether	**0.27**	**J**	5.0	0.25	ug/L			03/20/13 13:10	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 13:10	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 13:10	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 13:10	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 13:10	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 13:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WAMW1D — **Lab Sample ID: 280-40045-5**
Date Collected: 03/18/13 00:00 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:10	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 13:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:10	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 13:10	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 13:10	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 13:10	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 13:10	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 13:10	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 13:10	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*03/20/13 13:10*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*03/20/13 13:10*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/20/13 13:10*	*1*

Client Sample ID: TRIP BLANK — **Lab Sample ID: 280-40045-6**
Date Collected: 03/18/13 09:15 — **Matrix: Water**
Date Received: 03/19/13 08:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.9	ug/L			03/20/13 13:33	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 13:33	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 13:33	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 13:33	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 13:33	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 13:33	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 13:33	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 13:33	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 13:33	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 13:33	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 13:33	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 13:33	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 13:33	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:33	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 13:33	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 13:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 13:33	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 13:33	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 13:33	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 13:33	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 13:33	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 13:33	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 13:33	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 13:33	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 13:33	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 13:33	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 13:33	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 13:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK
Date Collected: 03/18/13 09:15
Date Received: 03/19/13 08:05

Lab Sample ID: 280-40045-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 13:33	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 13:33	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 13:33	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 13:33	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 13:33	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 13:33	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 13:33	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 13:33	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 13:33	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 13:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 13:33	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 13:33	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 13:33	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 13:33	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 13:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 13:33	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 13:33	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 13:33	1
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 13:33	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 13:33	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 13:33	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 13:33	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*03/20/13 13:33*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*03/20/13 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*03/20/13 13:33*	*1*
Toluene-d8 (Surr)	*122*		*80 - 125*		*03/20/13 13:33*	*1*

QC Association Summary

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

GC/MS VOA

Analysis Batch: 165627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-40045-1	WAMW1	Total/NA	Water	8260B	
280-40045-1 MS	WAMW1	Total/NA	Water	8260B	
280-40045-1 MSD	WAMW1	Total/NA	Water	8260B	
280-40045-2	WAMW2	Total/NA	Water	8260B	
280-40045-3	WAMW3	Total/NA	Water	8260B	
280-40045-4	BVMW2	Total/NA	Water	8260B	
280-40045-5	WAMW1D	Total/NA	Water	8260B	
280-40045-6	TRIP BLANK	Total/NA	Water	8260B	
LCS 280-165627/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-165627/5	Method Blank	Total/NA	Water	8260B	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

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			03/20/13 07:24	1
Benzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Bromoform	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Bromomethane	ND		2.0	0.21	ug/L			03/20/13 07:24	1
2-Butanone (MEK)	ND		6.0	2.0	ug/L			03/20/13 07:24	1
Carbon disulfide	ND		2.0	0.45	ug/L			03/20/13 07:24	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Chlorobenzene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chlorobromomethane	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Chlorodibromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Chloroethane	ND		2.0	0.41	ug/L			03/20/13 07:24	1
Chloroform	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Chloromethane	ND		2.0	0.30	ug/L			03/20/13 07:24	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Cyclohexane	ND		2.0	0.28	ug/L			03/20/13 07:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.47	ug/L			03/20/13 07:24	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Dichlorobromomethane	ND		1.0	0.17	ug/L			03/20/13 07:24	1
Dichlorodifluoromethane	ND		2.0	0.31	ug/L			03/20/13 07:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/20/13 07:24	1
1,2-Dichloroethane	ND		1.0	0.13	ug/L			03/20/13 07:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			03/20/13 07:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/20/13 07:24	1
1,4-Dioxane	ND		200	57	ug/L			03/20/13 07:24	1
Ethylbenzene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
2-Hexanone	ND		5.0	1.7	ug/L			03/20/13 07:24	1
Isopropylbenzene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Methyl acetate	ND		5.0	1.6	ug/L			03/20/13 07:24	1
Methylcyclohexane	ND		1.0	0.36	ug/L			03/20/13 07:24	1
Methylene Chloride	ND		2.0	0.32	ug/L			03/20/13 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			03/20/13 07:24	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			03/20/13 07:24	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			03/20/13 07:24	1
o-Xylene	ND		1.0	0.19	ug/L			03/20/13 07:24	1
Styrene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/13 07:24	1
Tetrachloroethene	ND		1.0	0.20	ug/L			03/20/13 07:24	1
Toluene	ND		1.0	0.17	ug/L			03/20/13 07:24	1
trans-1,2-Dichloroethene	ND		1.0	0.15	ug/L			03/20/13 07:24	1
trans-1,3-Dichloropropene	ND		3.0	0.19	ug/L			03/20/13 07:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.21	ug/L			03/20/13 07:24	1
1,1,1-Trichloroethane	ND		1.0	0.16	ug/L			03/20/13 07:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			03/20/13 07:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-165627/5
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.16	ug/L			03/20/13 07:24	1
Trichlorofluoromethane	ND		2.0	0.29	ug/L			03/20/13 07:24	1
1,1,2-Trichlorotrifluoroethane	ND		3.0	0.42	ug/L			03/20/13 07:24	1
Vinyl chloride	ND		1.0	0.10	ug/L			03/20/13 07:24	1
Xylenes, Total	ND		1.0	0.19	ug/L			03/20/13 07:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*03/20/13 07:24*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/20/13 07:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*03/20/13 07:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*03/20/13 07:24*	*1*

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

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	24.2		ug/L		121	50 - 156
Benzene	5.00	4.65		ug/L		93	74 - 135
Bromoform	5.00	4.15		ug/L		83	62 - 135
Bromomethane	5.00	5.17		ug/L		103	38 - 150
2-Butanone (MEK)	20.0	16.8		ug/L		84	44 - 150
Carbon disulfide	5.00	3.78		ug/L		76	34 - 150
Carbon tetrachloride	5.00	4.86		ug/L		97	67 - 135
Chlorobenzene	5.00	4.64		ug/L		93	76 - 135
Chlorobromomethane	5.00	4.68		ug/L		94	70 - 135
Chlorodibromomethane	5.00	4.91		ug/L		98	68 - 135
Chloroethane	5.00	5.12		ug/L		102	46 - 147
Chloroform	5.00	4.78		ug/L		96	76 - 120
Chloromethane	5.00	5.45		ug/L		109	34 - 145
cis-1,2-Dichloroethene	5.00	4.75		ug/L		95	73 - 135
cis-1,3-Dichloropropene	5.00	5.04		ug/L		101	66 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.21	J	ug/L		84	65 - 150
1,2-Dibromoethane	5.00	4.75		ug/L		95	71 - 135
1,2-Dichlorobenzene	5.00	4.58		ug/L		92	75 - 135
1,3-Dichlorobenzene	5.00	4.67		ug/L		93	74 - 135
1,4-Dichlorobenzene	5.00	4.72		ug/L		94	75 - 135
Dichlorobromomethane	5.00	4.49		ug/L		90	73 - 135
Dichlorodifluoromethane	5.00	4.53		ug/L		91	28 - 152
1,1-Dichloroethane	5.00	4.81		ug/L		96	75 - 135
1,2-Dichloroethane	5.00	4.56		ug/L		91	70 - 135
1,1-Dichloroethene	5.00	5.57		ug/L		111	71 - 136
1,2-Dichloropropane	5.00	4.54		ug/L		91	71 - 120
Ethylbenzene	5.00	4.69		ug/L		94	72 - 120
2-Hexanone	20.0	17.3		ug/L		86	47 - 150
Isopropylbenzene	5.00	4.72		ug/L		94	75 - 135
Methylene Chloride	5.00	4.74		ug/L		95	54 - 141
4-Methyl-2-pentanone (MIBK)	20.0	16.1		ug/L		80	53 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-165627/4
Matrix: Water
Analysis Batch: 165627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5.00	4.11	J	ug/L		82	46 - 135
m-Xylene & p-Xylene	10.0	9.05		ug/L		91	74 - 135
o-Xylene	5.00	4.59		ug/L		92	73 - 135
Styrene	5.00	4.47		ug/L		89	68 - 135
1,1,2,2-Tetrachloroethane	5.00	4.41		ug/L		88	66 - 135
Tetrachloroethene	5.00	5.14		ug/L		103	70 - 135
Toluene	5.00	4.23		ug/L		85	73 - 120
trans-1,2-Dichloroethene	5.00	4.96		ug/L		99	75 - 135
trans-1,3-Dichloropropene	5.00	4.07		ug/L		81	68 - 135
1,2,3-Trichlorobenzene	5.00	4.56		ug/L		91	60 - 135
1,2,4-Trichlorobenzene	5.00	4.64		ug/L		93	64 - 135
1,1,1-Trichloroethane	5.00	4.98		ug/L		100	70 - 135
1,1,2-Trichloroethane	5.00	4.02		ug/L		80	73 - 135
Trichloroethene	5.00	4.61		ug/L		92	73 - 135
Trichlorofluoromethane	5.00	4.96		ug/L		99	47 - 150
Vinyl chloride	5.00	4.99		ug/L		100	40 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*103*		*80 - 125*

Lab Sample ID: 280-40045-1 MS
Matrix: Water
Analysis Batch: 165627

Client Sample ID: WAMW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.9	J	20.0	30.1		ug/L		121	50 - 156
Benzene	ND		5.00	4.80		ug/L		96	74 - 135
Bromoform	ND		5.00	4.65		ug/L		93	62 - 135
Bromomethane	ND		5.00	6.64		ug/L		133	38 - 150
2-Butanone (MEK)	ND		20.0	19.2		ug/L		96	44 - 150
Carbon disulfide	ND		5.00	5.12		ug/L		102	34 - 150
Carbon tetrachloride	ND		5.00	5.22		ug/L		104	67 - 135
Chlorobenzene	ND		5.00	4.86		ug/L		97	76 - 135
Chlorobromomethane	ND		5.00	5.23		ug/L		105	70 - 135
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135
Chloroethane	ND		5.00	7.03		ug/L		141	46 - 147
Chloroform	ND		5.00	4.95		ug/L		99	76 - 120
Chloromethane	ND		5.00	6.31		ug/L		126	34 - 145
cis-1,2-Dichloroethene	ND		5.00	5.01		ug/L		100	73 - 135
cis-1,3-Dichloropropene	ND		5.00	4.69		ug/L		94	66 - 135
1,2-Dibromo-3-Chloropropane	ND		5.00	4.66	J	ug/L		93	65 - 150
1,2-Dibromoethane	ND		5.00	4.86		ug/L		97	71 - 135
1,2-Dichlorobenzene	ND		5.00	4.90		ug/L		98	75 - 135
1,3-Dichlorobenzene	ND		5.00	4.83		ug/L		97	74 - 135
1,4-Dichlorobenzene	ND		5.00	5.01		ug/L		100	75 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-1 MS
Matrix: Water
Analysis Batch: 165627

Client Sample ID: WAMW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	ND		5.00	4.80		ug/L		96	73 - 135
Dichlorodifluoromethane	ND		5.00	5.53		ug/L		111	28 - 152
1,1-Dichloroethane	ND		5.00	5.03		ug/L		101	75 - 135
1,2-Dichloroethane	ND		5.00	4.81		ug/L		96	70 - 135
1,1-Dichloroethene	ND		5.00	7.42	F	ug/L		148	71 - 136
1,2-Dichloropropane	ND		5.00	4.62		ug/L		92	71 - 120
Ethylbenzene	ND		5.00	4.87		ug/L		97	72 - 120
2-Hexanone	ND		20.0	17.8		ug/L		89	47 - 150
Isopropylbenzene	ND		5.00	4.85		ug/L		97	75 - 135
Methylene Chloride	ND		5.00	6.28		ug/L		126	54 - 141
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.4		ug/L		92	53 - 150
Methyl tert-butyl ether	0.25	J	5.00	5.98		ug/L		120	46 - 135
m-Xylene & p-Xylene	ND		10.0	9.63		ug/L		96	74 - 135
o-Xylene	ND		5.00	4.83		ug/L		97	73 - 135
Styrene	ND		5.00	4.73		ug/L		95	68 - 135
1,1,2,2-Tetrachloroethane	ND		5.00	4.75		ug/L		95	66 - 135
Tetrachloroethene	ND		5.00	5.22		ug/L		104	70 - 135
Toluene	ND		5.00	4.85		ug/L		97	73 - 120
trans-1,2-Dichloroethene	ND		5.00	6.67		ug/L		133	75 - 135
trans-1,3-Dichloropropene	ND		5.00	4.83		ug/L		97	68 - 135
1,2,3-Trichlorobenzene	ND		5.00	4.73		ug/L		95	60 - 135
1,2,4-Trichlorobenzene	ND		5.00	4.75		ug/L		95	64 - 135
1,1,1-Trichloroethane	ND		5.00	5.15		ug/L		103	70 - 135
1,1,2-Trichloroethane	ND		5.00	4.72		ug/L		94	73 - 135
Trichloroethene	ND		5.00	4.83		ug/L		97	73 - 135
Trichlorofluoromethane	ND		5.00	6.26		ug/L		125	47 - 150
Vinyl chloride	ND		5.00	6.66		ug/L		133	40 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: 280-40045-1 MSD
Matrix: Water
Analysis Batch: 165627

Client Sample ID: WAMW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	5.9	J	20.0	31.3		ug/L		127	50 - 156	4	41
Benzene	ND		5.00	4.76		ug/L		95	74 - 135	1	20
Bromoform	ND		5.00	4.75		ug/L		95	62 - 135	2	21
Bromomethane	ND		5.00	6.94		ug/L		139	38 - 150	4	24
2-Butanone (MEK)	ND		20.0	20.7		ug/L		103	44 - 150	8	32
Carbon disulfide	ND		5.00	5.45		ug/L		109	34 - 150	6	20
Carbon tetrachloride	ND		5.00	5.13		ug/L		103	67 - 135	2	21
Chlorobenzene	ND		5.00	4.79		ug/L		96	76 - 135	1	20
Chlorobromomethane	ND		5.00	5.29		ug/L		106	70 - 135	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-40045-1 MSD
Matrix: Water
Analysis Batch: 165627

Client Sample ID: WAMW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	ND		5.00	5.14		ug/L		103	68 - 135	0	20
Chloroethane	ND		5.00	7.42	F	ug/L		148	46 - 147	5	25
Chloroform	ND		5.00	4.93		ug/L		99	76 - 120	0	20
Chloromethane	ND		5.00	7.46	F	ug/L		149	34 - 145	17	24
cis-1,2-Dichloroethene	ND		5.00	4.96		ug/L		99	73 - 135	1	20
cis-1,3-Dichloropropene	ND		5.00	4.70		ug/L		94	66 - 135	0	20
1,2-Dibromo-3-Chloropropane	ND		5.00	4.82	J	ug/L		96	65 - 150	3	22
1,2-Dibromoethane	ND		5.00	4.93		ug/L		99	71 - 135	2	20
1,2-Dichlorobenzene	ND		5.00	4.63		ug/L		93	75 - 135	6	20
1,3-Dichlorobenzene	ND		5.00	4.70		ug/L		94	74 - 135	3	20
1,4-Dichlorobenzene	ND		5.00	4.83		ug/L		97	75 - 135	4	23
Dichlorobromomethane	ND		5.00	4.79		ug/L		96	73 - 135	0	20
Dichlorodifluoromethane	ND		5.00	6.01		ug/L		120	28 - 152	8	24
1,1-Dichloroethane	ND		5.00	4.98		ug/L		100	75 - 135	1	21
1,2-Dichloroethane	ND		5.00	4.84		ug/L		97	70 - 135	0	20
1,1-Dichloroethene	ND		5.00	7.37	F	ug/L		147	71 - 136	1	20
1,2-Dichloropropane	ND		5.00	4.54		ug/L		91	71 - 120	2	20
Ethylbenzene	ND		5.00	4.79		ug/L		96	72 - 120	2	26
2-Hexanone	ND		20.0	18.1		ug/L		90	47 - 150	1	25
Isopropylbenzene	ND		5.00	4.64		ug/L		93	75 - 135	4	20
Methylene Chloride	ND		5.00	6.37		ug/L		127	54 - 141	1	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	19.5		ug/L		97	53 - 150	6	22
Methyl tert-butyl ether	0.25	J	5.00	6.12		ug/L		122	46 - 135	2	21
m-Xylene & p-Xylene	ND		10.0	9.24		ug/L		92	74 - 135	4	20
o-Xylene	ND		5.00	4.63		ug/L		93	73 - 135	4	20
Styrene	ND		5.00	4.72		ug/L		94	68 - 135	0	20
1,1,2,2-Tetrachloroethane	ND		5.00	4.76		ug/L		95	66 - 135	0	20
Tetrachloroethene	ND		5.00	5.10		ug/L		102	70 - 135	2	20
Toluene	ND		5.00	4.79		ug/L		96	73 - 120	1	20
trans-1,2-Dichloroethene	ND		5.00	6.71		ug/L		134	75 - 135	1	24
trans-1,3-Dichloropropene	ND		5.00	4.86		ug/L		97	68 - 135	1	20
1,2,3-Trichlorobenzene	ND		5.00	4.76		ug/L		95	60 - 135	1	29
1,2,4-Trichlorobenzene	ND		5.00	4.76		ug/L		95	64 - 135	0	25
1,1,1-Trichloroethane	ND		5.00	5.08		ug/L		102	70 - 135	1	20
1,1,2-Trichloroethane	ND		5.00	4.68		ug/L		94	73 - 135	1	21
Trichloroethene	ND		5.00	4.71		ug/L		94	73 - 135	3	20
Trichlorofluoromethane	ND		5.00	6.72		ug/L		134	47 - 150	7	20
Vinyl chloride	ND		5.00	7.24	F	ug/L		145	40 - 144	8	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Chronicle

Client: Walsh Enviro Scientist & Engineering
Project/Site: Wagner Rental

TestAmerica Job ID: 280-40045-1

Client Sample ID: WAMW1

Lab Sample ID: 280-40045-1
Date Collected: 03/18/13 09:15
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 10:52	GPM	TAL DEN

Client Sample ID: WAMW2

Lab Sample ID: 280-40045-2
Date Collected: 03/18/13 10:00
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 12:01	GPM	TAL DEN

Client Sample ID: WAMW3

Lab Sample ID: 280-40045-3
Date Collected: 03/18/13 11:25
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 12:24	GPM	TAL DEN

Client Sample ID: BVMW2

Lab Sample ID: 280-40045-4
Date Collected: 03/18/13 10:55
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 12:47	GPM	TAL DEN

Client Sample ID: WAMW1D

Lab Sample ID: 280-40045-5
Date Collected: 03/18/13 00:00
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 13:10	GPM	TAL DEN

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-40045-6
Date Collected: 03/18/13 09:15
Matrix: Water
Date Received: 03/19/13 08:05

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	165627	03/20/13 13:33	GPM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Chain of Custody Record

Sampler ID _____ JR1

Temperature on Receipt 3.1°, 2.8°, 1.0° 3/19/13

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: Walsh Environmental	Project Manager: Craig Carter / Andrew Umyn	Date: 3/18/2013	Chain of Custody Number: 170728
Address: 820 16th Street # 400	Telephone Number (Area Code)/Fax Number: 303.573.5585 / 303.573.5525	Lab Number	Page 1 of 1
City: Denver; State: CO; Zip Code: 80202	Site Contact: A. Umyn	Lab Contact: D. Rydbers	
Project Name and Location (State): Wagner Rental	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: WA-001925-0001-10th			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOCs	Special Instructions/ Conditions of Receipt
WAMW1	3/18/2013	09:15		X						3			X	
WAMW2	↓	10:00		X						↓			X	
WAMW3	↓	11:25 ~~10:55~~		X						↓			X	
BVMW2	↓	10:55		X						↓			X	
WAMW1D	3/18/2013	—		X						3			X	
Trip Blank	—	—		X						2			X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ 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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/19/2013	08:05	1. Received By: [signature]	3-19-13	0805
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Walsh Enviro Scientist & Engineering

Job Number: 280-40045-1

Login Number: 40045

List Source: TestAmerica Denver

List Number: 1

Creator: Bindel, Aaron M

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.	True	
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	