Phase II Environmental Site Assessment Report

Main Street Properties APNs: 002-183-002, 002-182-006, 002-183-011; and, City Right-of-Way Surrounding the Old Railroad Maintenance Yard Carlin, Elko County, Nevada

Prepared For

City of Carlin 101 South Main Street Carlin, NV 89822

February 4, 2014

Converse Project No. 08-73103-01

Prepared By

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Converse Consultants

Geotechnical Engineering, Environmental and Groundwater Science, Inspection and Testing Services

February 4, 2014

Mr. Glenn Trust City Manager City of Carlin P.O. Box 787 Carlin, Nevada 89822

Reference: PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Main Street Properties

APNs: 002-183-002, 002-182-006, 002-183-011; and

City Right-of-Way Surrounding the Old Railroad Maintenance Yard

Carlin, Elko County, Nevada

Converse Project No. 08-73103-01-04

Dear Mr. Trust:

Converse Consultants is pleased to submit the attached report summarizing activities and results of a Phase II Environmental Site Assessment conducted at the above referenced properties.

Should you have any questions or comments regarding this report, please contact us. We appreciate the opportunity to have worked with you on this project.

CONVERSE CONSULTANTS

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Senior Engineer

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Principal

Executive Summary

The following is an Executive Summary of the Phase II Environmental Site Assessment (ESA) conducted by Converse Consultants (Converse) as presented in the body of this report. Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall take precedence.

This report presents the results of the Converse's Phase II ESA performed on several properties along Main Street (APNs: 002-183-002, 002-182-006, 002-183-011); and, the City of Carlin Right-of-Way (ROW) surrounding the historic Union Pacific Rail Road Yard (Yard), Carlin, Elko County, Nevada. This Phase II ESA was performed in conformance with the American Society for Testing Materials Standard E1903-11 and the Field Sampling Plan developed specifically for this work.

The Property is located adjacent to and/or up-gradient of the Yard. The Property is comprised of three rectangular-shaped parcels located along Main Street and the City ROW along the perimeter of the Yard. The City owns the ROW portion of the Property, which consists of an approximately a 10 foot wide easement, and is located between the paved roadways (Hamilton, Main, Railroad, Fourth, Seventh, and Tenth Streets) and railroad owned property. The ROW portion of the Property does not have an address or a parcel number since the county does not assign parcel numbers or addresses to government owned ROW. Two of the Property parcels, at 523 and 603 Main Street, consist of undeveloped City owned land. The parcel at 617 Main Street is owned by First & Main Street, LLC and consists of a vacant, dilapidated hotel built in the 1950s.

- On November 6 and 7, 2013, a GeoProbe direct push drilling rig was used to collect soil samples from fifteen borings. An attempt was made to advance each of the borings to groundwater. Refusal was encountered in borings B-3, B-8, B-12, and B-14 at depths between 6 and 7 feet below ground surface. Groundwater was encountered in the remaining borings. Soil samples were collected in each boring at approximate 5 foot intervals as conditions allowed. Groundwater was encountered in borings B-1, B-2, B-4, B-5, B-6, B-7, B-9, B-10, B-11, B-13, and B-15. Groundwater was encountered at depths ranging from 11 to 16 feet below ground surface. Samples were collected from these borings with the exception of B-10 which collapsed before a sample was able to be collected.
- Of the forty five soil samples collected, nineteen were selected for laboratory analyses based on the criteria outlined in the FSP. Soil samples were analyzed for: total petroleum hydrocarbon (TPH) by EPA Method 8015B; volatile organic compounds (V0Cs) by EPA Method 8260B; semi-volatile organic compounds (SVOCs), by EPA Method 8270C; and, chromium, arsenic, selenium, silver, cadmium, barium, mercury and lead (RCRA 8 metals) by EPA Method 6020.

- Four of the soil samples contained TPH concentrations over the State of Nevada Reporting Limit (SRL) of 100 milligrams per kilogram (mg/kg). The soil samples contained the detectable concentrations of TPH as follows: B-3 at 6.5 feet below ground surface (1,030 mg/kg), B-4 at 12 feet below ground surface (between 5,770 and 15,830 mg/kg), B-5 at 8 feet below ground surface (5,080 mg/kg), and B-5 at 12 feet below ground surface (660 mg/kg). TPH was not detected over the laboratory reporting limit in the reaming soil samples analyzed. The samples from B-3 at 6.5 feet below ground surface, B-4 at 12 feet below ground surface, B-5 at 8 feet below ground surface, and B-5 at 12 feet below ground surface were also analyzed for VOCs and SVOCs. No VOCs were detected in any of the soil samples over the laboratory reporting limits. SVOCs were detected in the soil sample from B-4 at 12 feet below ground surface and B-5 at 12 feet below ground surface. However, none were at concentrations above the EPA Regional Screening Levels for Residential Soils (RSLr).
- Nineteen soil samples were analyzed for 8 RCRA metals. All of the samples contained arsenic over the RSLr. While EPA, Region 9 has established an RSLr. of 0.61 mg/kg for arsenic as a screening level, soils within the intermountain west generally have naturally occurring levels of arsenic in excess of that concentration. Several studies have been conducted in the Washoe County area to establish background levels for arsenic in soil. Two studies were reviewed for this report. They included the Nevada Division of Environmental Protection Screening/Action Levels for Arsenic in Surface Soils in the Carson River Basin (2006), which set a background level of 32 mg/kg for soil in the Carson River Basin. Additionally, the United States Department of the Interior Geological Survey prepared a report titled Analysis of Soil Samples from the Fernley Area-Churchill, Lyon, and Washoe Counties, Nevada, dated 1990, which describes the collection of soil samples in the Fernley Wildlife Management area to identify naturally occurring metals in soils. Based on this report, arsenic was found at concentrations ranging from 19 to 66 mg/kg. The arsenic concentrations identified in the soil samples collected during this Phase II ESA ranged from 3.1 to 27 mg/kg; therefore, the concentrations of arsenic were within the range that would be considered background for the area. The State of Nevada does not require background levels of metal in soil to be reported. The soil sample collected from boring B-9 from 8 feet below ground surface contained a mercury concentration of 408 mg/kg, which is above the State of Nevada Reporting Limit (SRL) of 6.5 mg/kg and the RSLr of 10 mg/kg. The soil sample collected from boring 6.5 feet below ground surface contained a concentration of lead of 400 mg/kg. The SRL and RSLr for lead in soil is 400 mg/kg. Selenium was identified in one of the soil samples (B-13 at 11 feet below ground surface) at 5.6 mg/kg which is above the SRL of 5.0 mg/kg and below the RSLr of 39 mg/kg. Based upon this information, the concentration of selenium in soils is not considered to be a concern.

• Ten groundwater samples were analyzed for VOCs, SVOCs and 8 RCRA metals. No VOCs were detected in the samples analyzed; SVOCs were detected in the samples from B-1, B-2, B-4, B-5, B-6, B-7, B-9, B-13 and B-15. However, no regulatory limits have been set for the compounds detected. The only metal detected in groundwater samples over the Maximum Concentration Levels set by EPA for drinking water (MCL) was arsenic. The arsenic was within concentrations considered to be background for the area

TPH concentrations over the SRL were detected in soil samples collected from borings B-3, B-4, and B-5. These borings are all adjacent and down-gradient from the Yard. Concentrations of lead were reported in a soil sample collected from B-3 at the RSLr level. This boring is adjacent and down-gradient of the Yard. Concentrations of mercury above the RSL were reported in boring B-9, which is adjacent to the Yard. SVOCs were detected in groundwater in eight borings. All of these borings are down-gradient of the Yard.

Based on the results of the laboratory analyses and field observations, it is our opinion that the objective of the Phase II ESA was met. The source of the contamination identified during this Phase II in the soil and groundwater is most likely the Yard. Additional soil and groundwater sampling should be conducted at the Yard and adjoining properties to better define the amount and type of contamination present.

In addition to the properties that were adjoining the Yard, three other parcels were investigated. These parcels are down-gradient of the Yard. No soil contamination was identified at these parcels. No VOCs were identified in the groundwater; however, SVOCs were detected. The SVOCs detected do not have regulatory limits. Additionally, no soil contamination was identified; therefore, the SVOC's identified in the groundwater should not limit development of these three sites and no additional investigation is recommended for these sites.

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Main Street Properties APNs: 002-183-002, 002-182-006, 002-183-011

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Plate 1 Site Map

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1.0 Introduction

This Report presents the results of the Converse Consultants (Converse) Phase II Environmental Site Assessment (ESA) performed on several properties along Main Street (APNs: 002-183-002, 002-182-006, 002-183-011) and the City of Carlin Right-of-Way (ROW) surrounding the historic Union Pacific Rail Road Yard (Yard), Carlin, Elko County, Nevada, referred to as the "Property" in this report. Converse was retained by the City of Carlin (User) to conduct the Phase II ESA at the Property. The location of the Property is shown on Plate 1, Site Map. The scope of this Phase II ESA was completed in accordance with the Field Sampling Plan (FSP) prepared by Converse dated September 18, 2013, and approved by the EPA on September 18, 2013.

Converse generally followed the standard practices of the American Society for Testing Materials (ASTM) Designation: E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM, E 1903-11). The purpose of conducting the Phase II ESA in accordance with ASTM, E 1903-11 was to acquire and evaluate information sufficient to achieve the objectives set forth in the FSP developed by the User and Converse. The objective of the assessment was to evaluate if potential releases from an adjacent offsite source had impacted soil and/or groundwater and would impede future redevelopment of the Property.

The Phase II ESA included the following primary tasks:

- Advancement of fifteen soil borings.
- Collection of soil and groundwater samples from the borings.
- Laboratory analysis of select groundwater and soil samples for total petroleum hydrocarbons (TPH), volatile organic compounds (VOC), semi volatile organic compounds (SVOCs), and metals.

2.0 Background

2.1 Site Description and Features

2.1.1 Current Uses of the Property

The Property is located adjacent to the Yard. It comprises several parcels and City Right-of-Way (ROW). The Property is comprised of three rectangular-shaped parcels located along Main Street and the City ROW along the perimeter of the Yard. The City-owned ROW portion of the Property consists of an approximately 10 foot wide easement, that is located between the paved roadways (Hamilton, Main, Railroad, Fourth, Seventh, and Tenth Streets) and railroad owned property. Two of the parcels, at 523 and 603 Main Street, consist of undeveloped City-owned land. The parcel at 617

Main Street is owned by First & Main Street, LLC and consists of a vacant, dilapidated hotel built in the 1950s.

2.1.2 Location and Legal Description

The City owned ROW is located along Main and Hamilton Streets between, 4th and 7th Streets, 4th Street between Hamilton and Main Streets, and 7th Street between Railroad and Hamilton Streets. The ROW does not have an address or a parcel number since the county does not assign parcel numbers to government owned ROW.

The parcel located at 523 Main Street has an assigned Assessor's Parcel Number (APN) of 002-182-006. The Elko County Assessor's Office partial legal description is as follows: Parcel Map 002-180, Lot 1 and the easterly 12 ½ feet of Lot 2, Block D, Township 33 Range 52.

The parcel located at 603 Main Street has an assigned APN of 002-183-002. The Elko County Assessor's Office partial legal description is as follows: Carlin City, Lot 9-11, Block C.

The parcel located at 617 Main Street has an assigned APN of 002-183-011. Elko County Assessor's Office partial legal description is as follows: Carlin City Lots 3,4, 5 in Block C

2.1.3 Property General Characteristics

The majority of the Property is undeveloped and itincludes two lots and the City ROW which surrounds the Yard. One of the parcels that is included in the Property is developed with a dilapidated hotel. The hotel footprint encompasses the entire parcel.

The Property is located in the historic area of Carlin, Nevada. The area is developed with residential and commercial properties.

2.2 Physical Setting

2.2.1 Topography

The elevation of the Property is approximately 4,902 feet above mean sea level (msl), and the vicinity is relatively flat to gently sloping to the south and southwest. The Humboldt River is located approximately ½ mile south of the Property.

2.2.2 Geology

According to the Geologic Map of Elko County, Nevada, Nevada Bureau of Mines and Geology, the Property is located in the quaternary zone that consists of alluvium deposits which consist of clayey silt, sand, and gravel. These are soils with layers that impede downward movement of water, or soils with moderately fine or fine textures that are poorly drained.

During this Phase II ESA, the majority of the near surface soils encountered were silty sands and sandy silts. A minor amount of sandy clays was also encountered, and varying amounts of gravel were identified in soils below 6 feet in depth.

2.2.3 Hydrogeology

According to documentation researched, groundwater in the area of the Property is approximately 15 feet below the ground surface and has a flow direction to the south/southwest towards the Humboldt River (the groundwater gradient was established during the previous investigation at the up gradient Yard). During the Phase II ESA, groundwater was encountered at depths ranging from 11 to 16 feet below ground surface.

2.3 Property History and Land Use

The ROW portion of the Property has been utilized as a public right-of-way since at least 1885. A portion of the ROW along Main Street was utilized as a railroad platform, passenger depot, freight car depot, library, ice house, restaurant, and dormitories. The structures were removed between 1952 and 1982.

The parcel located at 523 Main Street, was undeveloped as depicted on a 1885 Sanborn Map. By the early 1920s, the parcel was developed with a Post Office. In the early 1940s, the Post office was converted to a dwelling. Sometime between the 1950s and 1980, the building was demolished. The parcel is presently vacant.

The parcel located at 601 Main Street was developed as a carpenter shop, a saloon with lodging, a post office and a barber shop according to an 1885 Sanborn Map. By 1890, the carpenter's shop was listed as vacant. A 1907 Sanborn Map shows that the vacant shop was utilized as a dry goods store. There were no substantial changes to the other parcels. By 1927, the Property was developed as the Overland Hotel and remained as such according to a 1952 Sanborn Map. In the 1960s, the Property structure was converted to a Chinese restaurant which was operated on the Property until it caught fire in the 1990s. After the fire, the building collapsed, and the City of Carlin ultimately removed the rubble and graded the Property in 2010.

In 1885, the parcel at 617 Main Street, was originally developed as multiple businesses with a restaurant, society hall, dwelling, and a general merchandise store with a warehouse. There were some minor reconfigurations to the parcel between 1885 and 1938, at which time it was redeveloped with the existing structure. The parcel operated as a restaurant/gambling hall/hotel until it was closed down approximately 30 years ago.

2.4 Adjacent/Surrounding Property Land Use

The Property is located in an area that was primarily used for railroad activities until the late-1950s at which time commercial and residential development started. The general area north of the Property was developed as a railroad depot in 1868. By 1884, a roundhouse, machine shop, four stores, one hotel, two saloons, two restaurants, two blacksmith shops, a telegraph office, an express office, and a jail were developed in the area. Many of the structures on the railroad property were removed between 1952 and 1982. The turnable was removed and the depression was filled in sometime between 1982 and 1994. The half-dome steel buildings on the railroad property near the corner of Hamilton Street and 4th Street were removed between 1994 and 1999. Some of the other remaining railroad related structures were removed between 1999 and 2006. There are a few remaining structures on the adjacent railroad property including fueling stands.

2.5 Summary of Previous Assessments

Converse performed Phase I ESAs on the parcels that comprise the Property in April 2013. The following (REC) was identified in association with the Property:

 Historic Union Pacific Rail Road Yard (Yard) located adjacent and/or up-gradient of the Property.

Converse recommended a Phase II investigation to include soil and groundwater sampling to evaluate potential impacts from the Yard.

As part of the Phase I ESA's conducted on the parcels for the Property, Converse reviewed files located at the Nevada Division of Environmental Protection (NDEP) for the historic Union Pacific Rail Road Yard (Yard). The following summarizes the information contained in the files:

• In 1983, diesel fuel was discovered in groundwater in the area of the Yard. Several homes down-gradient of the Yard on Main Street between 4th and 5th Street were impacted with oil seeping into their basements. The Union Pacific Rail Road Company was placed under an Order by the NDEP to remediate the site. In 1990, 12 USTs were removed from the Yard. The tanks contained gasoline, kerosene, and diesel. Groundwater remediation was conducted at the site from 1983 to 2007, when the site received closure from the NDEP. Groundwater was monitored for free product, total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and xylenes (BTEX). Possible solvent contamination, metal contamination, and vapor intrusion were not considered as part of the closure.

3.0 Work Performed and Rationale

3.1 Scope of Assessment

A FSP was developed based on data obtained during the Phase I ESAs. During the Phase I ESAs, the up-gradient and/or adjoining historic Union Pacific Rail Road Yard was identified as a REC.

Target Analytes: Petroleum products, solvents and/or metals in soil and/or groundwater from the adjoining and/or up-gradient Yard could be located at the Property. Target analytes consisted of TPH, VOCs, SVOCs and arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver (RCRA 8 metals).

Target Analytes First Entered the Environment: Target analytes would have entered the environment from the adjoining/up-gradient Yard and spread through soil or groundwater to the Property.

Environmental Media and Locations most likely to have the Highest Concentrations of Target Analytes: Areas closest to, and down-gradient of the Yard, would be most likely to be impacted.

This Phase II ESA consisted of the following primary elements:

Collection of soil and groundwater samples for laboratory analysis

3.2 Soil Sample Collection

Sample collection and delivery were conducted as outlined in the approved FSP and Quality Assurance Project Plan (QAPP). The locations of the boring are shown on Plate 1.

On November 6 and 7, 2013, a GeoProbe direct push drilling rig was used to advance fifteen borings for the purpose of collecting soil and groundwater samples. An attempt was made to advance all of the borings to groundwater. Refusal was encountered in borings B-3, B-8, B-12, and B-14 between 6 and 7 feet below ground surface. Groundwater was encountered in the remaining borings. Soil samples were collected in each boring approximately every 5 feet as conditions allowed.

3.3 Groundwater Sample Collection

Groundwater was encountered in borings B-1 B-2, B-4, B-5, B-6, B-7, B-9, B-10, B-11, B-13, and B-15. Groundwater samples were collected in all the borings with the exception of B-10 because the hole collapsed before a sample was able to be collected. Sample collection and delivery was conducted as outlined in the approved FSP and QAPP.

3.4 Field Quality Assurance/Quality Control

Quality control samples were collected and analyzed to evaluate the accuracy and precision of both field and laboratory data in accordance with the approved QAPP and FSP. As a part of this Phase II ESA, three groundwater field-split samples and three soil field-split samples were collected. Additionally, two field blanks were collected and submitted for laboratory analysis.

3.5 Chemical Analytical Methods

A total of 19 soil samples were selected and analyzed for TPH by EPA Method 8015B; 4 soil samples were selected and analyzed for for VOCs by EPA Method 8260B; 4 soil samples were selected and analyzed for SVOCs by EPA Method 8270C; and, 19 soil samples were selected and analyzed for 8 RCRA metals by EPA Method 6020. Ten groundwater samples were analyzed for VOCs by EPA Method 8260B, SVOCs by EPA Method 8270C, and RCRA dissolved metals by EPA Method 200.8.

4.0 Presentation and Evaluation of Results

4.1 Subsurface Conditions

The majority of the near surface soils encountered were silty sands and sandy silts. A minor amount of sandy clays was also encountered in the study area. Varying amounts of gravel were encountered in soils below 6 feet in depth. Boring logs are included in Appendix A.

4.2 Analytical Results

4.2.1 Soil Samples

Of the forty five soil samples collected, nineteen were selected for laboratory analyses based on the criteria described in the FSP. The results of laboratory analysis are present in the following tables:

Table 1 – Laboratory Analytical Results - Soil (Organics)

Table 1 – I		<u> </u>		mg/kg		(Organi		SV	/OC mg/	kg	
Location	Depth Feet	Gasoline Range	Diesel Range	Oil Range	Total	VOCs	Naphthalene	1- Methylnaphthalen e	2- Methylnaphthalen e	Acenaphthene	Phenanthrene
B-1	12	ND**	ND	ND	ND	NA***	NA	NA	NA	NA	NA
B-2	12	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-3	6.5	ND	280	750	1,030	ND	ND	ND	ND	ND	ND
B-4	8	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-4	12*	3,600 6,500	2,000 8,600	170 730	5,770 15,830	ND	ND	1.0	0.49	ND	ND
B-5	8	2,000	2,500	580	<mark>5,080</mark>	ND	ND	ND	ND	ND	ND
B-5	12	ND	660	ND	<mark>660</mark>	ND	0.028	0.250	0.110	0.040	0.140
B-6	4	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-6	11	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-7	12*	ND ND	ND ND	ND ND	ND ND	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
B-8	7	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-9	8	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-10	12	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-11	12	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-11	15	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-12	7	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-13	11	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
D 45	0*	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-15	8*	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
B-15	12	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
SRL^ RSLr^^					100		3.6	16	230	3,400	-
IVOLI							5.0	10	200	5,700	

Results in mg/kg = milligrams kilograms

^{*} Sample split in the field for QA/QC purposes (duplicate)

^{**} ND - Not detected above the laboratory reporting limit

^{***} NA - Not Analyzed

[^] SRL - State of Nevada Reporting Limit

[^] RSLr - EPA Region 9 Regional Screening Levels for Residential Soil, Updated May 2013
Over SRL

Table 2 – Laboratory Analytical Results - Soil (Metals)

	<u> </u>	<i>y</i> / ια		uito ot	III (IVIELA		•		,
Location	Depth	Total Chromium	Arsenic	Selenium	Silver	Cadmium	Barium	Mercury	Lead
B-1	12	11	<mark>19</mark>	ND	ND	ND	360	ND	9.0
B-2	12	15	<mark>3.1</mark>	ND	ND	ND	96	ND	2.6
B-3	6.5	23	<mark>27</mark>	ND	2.0	<mark>18</mark>	320	1.7	<mark>400</mark>
B-4	8	18	<mark>11</mark>	ND	ND	ND	850	ND	12
B-4	12*	8.1	<mark>5.8</mark>	ND	ND	ND	84	ND	4.0
D-4	12	6.1	<mark>5.5</mark>	ND	ND	ND	73	ND	4.1
B-5	8	20	<mark>11</mark>	ND	ND	1.1	530	ND	12
B-5	12	13	<mark>5.4</mark>	ND	ND	ND	130	ND	4.7
B-6	4	17	<mark>5.5</mark>	ND	ND	ND	290	ND	7.0
B-6	11	9.2	<mark>4.5</mark>	ND	ND	ND	410	ND	5.5
B-7	12*	13	<mark>7.7</mark>	ND	ND	ND	530	ND	9.8
D-1	12	15	<mark>7.0</mark>	ND	ND	ND	410	ND	11
B-8	7	17	<mark>12</mark>	ND	ND	ND	400	ND	9.2
B-9	8	16	<mark>8.0</mark>	ND	ND	ND	ND	<mark>480</mark>	9.5
B-10	12	17	<mark>6.4</mark>	ND	ND	ND	350	ND	7.0
B-11	12	14	<mark>7.1</mark>	ND	ND	ND	420	ND	8.4
B-11	15	5.2	<mark>5.1</mark>	ND	ND	ND	94	ND	3.8
B-12	7	8.6	<mark>8.5</mark>	ND	ND	ND	280	ND	8.2
B-13	11	16	<mark>19</mark>	<mark>5.6</mark>	ND	ND	110	ND	11
B-15	8*	15	<mark>8.4</mark>	ND	ND	ND	550	ND	10
D-10	O	15	<mark>7.5</mark>	2.1	ND	1.1	200	ND	9.6
B-15	12	4.7	<mark>5.8</mark>	ND	ND	ND	67	ND	3.5
SRL^		38	0.39	5.0	34	8.0	1,600	6.7	400
RSLr^^		-	0.61	39	39	7.0	1,500	10	400

Results in mg/kg = milligrams kilograms

4.2.2 Investigation Derived Waste (IDW)

IDW was not generated during this investigation.

4.2.3 Groundwater Samples

Groundwater was encountered in the borings at depths ranging from 11 to 16 feet below ground surface. Groundwater samples were collected from borings B-1, B-2, B-4, B-5, B-6, B-7, B-9, B-11, B-13, and B-15. Groundwater samples were analyzed for VOCs, SVOCs and 8 RCRA metal. No VOCs were reported in the groundwater samples. The results of laboratory analysis are summarized below:

^{*} Sample was split in the field for QA/QC purposes

^{**} ND - Not detected above the laboratory reporting limit

[^] SRL - State of Nevada Reporting Limit

[^] RSLr - EPA Region 9 Regional Screening Levels for Residential Soil, Updated May 2013 Equal to or over SRL and\or RSL

Table 3 – Laboratory Analytical Results - Groundwater (Organics)

Table 3 – L	<u>-aborat</u>	Uly Alla	iyticai ix	couito -						
			T	T	,	SVOC ug/l	_	T	T	T
Location	SOOA	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Fluoranthene	Pyrene
B-1	ND	0.021	ND	ND	ND	ND	ND	0.038	ND	ND
B-2	ND	0.046	0.16	0.18	ND	0.025	ND	0.067	ND	ND
R-1	ND	70	180	61	2.3	9.2	18	21	ND	ND
B-4	ND	69	180	64	4.4	8.9	19	36	ND	ND
B-5	ND	93	250	120	1.6	30	41	93	3.2	4.3
B-6	ND	6.0	15	4.8	0.24	0.97	0.90	1.4	ND	ND
B-7	ND	0.039	0.031	0.040	ND	ND	ND	ND	ND	ND
D-1	ND	ND	0.022	ND	ND	ND	ND	ND	ND	ND
B-9	ND	ND	0.027	ND	ND	ND	ND	ND	ND	ND
B-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-13	ND	0.040	0.030	0.039	ND	ND	ND	ND	ND	ND
B-15	ND	0.028	ND	ND	ND	ND	ND	ND	ND	ND ND ND A.3 ND
D-10	ND	0.027	0.022	ND	ND	ND	ND	ND	ND	ND
MCL/SRL^										

Results in ug/kg = micrograms per liter
* Sample was split in the field for QA/QC purposes
** ND - Not detected above the laboratory reporting limit

[^] MCL - Maximum Concentration Levels, set by EPA for Drinking Water and SRL, State of Nevada Reporting Limits. No MCL's or SRL have been set for these compounds.

Location	Chromium Total	Arsenic	Selenium	Silver	Cadmium	Barium	Mercury	Lead
B-1	ND	<mark>16</mark>	ND	ND	ND	61	ND	ND
B-2	ND	8.6	ND	ND	ND	75	ND	ND
B-4	ND	6.7	ND	ND	ND	230	ND	ND
D-4	ND	5.1	ND	ND	ND	220	ND	ND
B-5	ND	5.8	ND	ND	ND	260	ND	ND
B-6	ND	<mark>15</mark>	ND	ND	ND	180	ND	ND
B-7	ND	9.2	7.3	ND	ND	75	ND	ND
D-1	ND	9.4	7.7	ND	ND	79	ND	ND
B-9	ND	8.5	6.8	ND	ND	57	ND	ND
B-11	ND	<mark>15</mark>	5.8	ND	ND	160	ND	ND
B-13	ND	<mark>15</mark>	ND	ND	ND	100	ND	ND
B-15	ND	ND	5.2	ND	ND	790	ND	ND
D-10	ND	ND	ND	ND	ND	830	ND	ND
SRL^	-	10	50	-	5	2,000	2	15
MCL^^	100	10	50	-	5	2,000	2	15

Results in ug/kg = microgram/liter

MCL – Maximum Concentration Levels, set by EPA for Drinking Water

Over SRL and MCL

Laboratory analytical reports and chain-of-custody documentation are included in Appendix B.

4.2.4 Data Quality Assurance/Quality Control

4.2.4.1 Holding Times

All samples were received and analyzed by the analytical laboratory within the U.S. EPA recommended holding times. As such, data is considered acceptable for use.

4.2.4.2 Laboratory Quality Assurance

Samples were submitted to a Nevada Certified Laboratory, Alpha Analytical, for analysis. The laboratory provided data to estimate precision, accuracy, and bias. For additional information on Laboratory Quality Assurance, please refer to Appendix C QA/QC Memorandum.

^{*} Sample was split in the field for QA/QC purposes

^{**} ND - Not detected above the laboratory reporting limit

[^]SRL- ^ SRL - State of Nevada Reporting Limit

The field sampling for this Phase II ESA was done in conjunction with several other Brownfield sites. During the sampling event, three duplicate soil samples and three duplicate groundwater samples were collected.

The QAPP states the QC limits for precision are 20% RPD for metals, TPH, VOCs, and Polychlorinated Biphenyls (PCBs); 30% RPD for SVOCs; and 40% RPD for other compounds. These are very strict standards and intended as a guide when reviewing the data. While these standards were not met for each individual sample the averages met or were close to the RPD listed in the QAPP, and the data is considered usable.

4.2.4.3 Field Blank

Two field blanks were collected during the Phase II investigation. There were no analytes identified in the field blanks at a concentration greater than the laboratory reporting limit. As such, the data is considered acceptable for use.

4.2.4.4 Laboratory Reporting Limits

The reporting limits used by Alpha Analytical were not consistent with the approved QAPP, but Alpha did use the reporting limits consistent with their QA/QC Manual, which are below RSLs and State of Nevada SALs, and ran its lowest calibration standards at or near its Practical Quantitation Limits (PQLs). As such, data is considered acceptable for use.

5.0 Interpretation and Conclusions

5.1 Recognized Environmental Conditions / Potential Release Area

During the Phase I ESAs, the up-gradient and/or adjoining historic Union Pacific Rail Road Yard (Yard) was considered a REC for the following sites: APNs: 002-183-002, 002-182-006, 002-183-011; and, the City of Carlin ROW surrounding the Yard.

5.2 Adequacy of Investigations

It is our opinion that the results of our field investigation adequately evaluated the identified objective of the FSP developed for this Phase II ESA.

5.3 Absence, Presence, Degree, Extent of Target Analytes

Of the forty five soil samples collected, nineteen were selected for laboratory analyses based on criteria identified in the FSP. Soil samples were analyzed for TPH by EPA Method 8015B; V0Cs by EPA Method 8260B; SVOCs by EPA Method 8270C; and

chromium, arsenic, selenium, silver, cadmium, barium, mercury and lead (RCRA 8 metals) by EPA Method 6020.

Four of the soil samples contained TPH concentrations over the State of Nevada Reporting Limit (SRL) of 100 milligrams per kilogram (mg/kg). The soil samples contained the detectable concentrations of TPH as follows: B-3 at 6.5 feet below ground surface (1,030 mg/kg), B-4 at 12 feet below ground surface (between 5,770 and 15,830 mg/kg), B-5 at 8 feet below ground surface (5,080 mg/kg), and B-5 at 12 feet below ground surface (660 mg/kg). TPH was not detected over the laboratory reporting limit in the reaming soil samples analyzed. The samples from B-3 at 6.5 feet below ground surface, B-4 at 12 feet below ground surface, B-5 at 8 feet below ground surface and B-5 at 12 feet below ground surface were also analyzed for VOCs and SVOCs. No VOCs were detected in any of the soil samples over the laboratory reporting limits. SVOCs were detected in the soil sample from B-4 at 12 feet below ground surface and B-5 at 12 feet below ground surface. However, none were at concentrations above the EPA Regional Screening Levels for Residential Soils (RSLr).

Nineteen soil samples were analyzed for 8 RCRA metals. All of the samples contained arsenic over the RSLr. While EPA, Region 9 has established an RSLr of 0.61 mg/kg for arsenic as a screening level, soils within the intermountain west generally have naturally occurring levels of arsenic in excess of that concentration. Several studies have been conducted in the Washoe County area to establish background levels for arsenic in soil. Two studies were reviewed for this report. They included the Nevada Division of Environmental Protection Screening/Action Levels for Arsenic in Surface Soils in the Carson River Basin (2006), which set a background level of 32 mg/kg for soil in the Additionally, the United States Department of the Interior Carson River Basin. Geological Survey prepared a report titled Analysis of Soil Samples from the Fernley Area-Churchill, Lyon, and Washoe Counties, Nevada, dated 1990, which describes the collection of soil samples in the Fernley Wildlife Management area to identify naturally occurring metals in soils. Based on this report, arsenic was found at concentrations ranging from 19 to 66 mg/kg. The arsenic concentrations identified in the soil samples collected during this Phase II ESA ranged from 3.1 to 27 mg/kg; therefore, the concentrations of arsenic were within the range that would be considered background for the area. The State of Nevada does not require background levels of metal in soil to be reported. The soil sample collected from boring B-9 from 8 feet below ground surface contained a mercury concentration of 408 mg/kg, which is above the State of Nevada Reporting Limit (SRL) of 6.5 mg/kg and the RSLr of 10 mg.kg. The soil sample collected from boring 6.5 feet below ground surface reportedly contained a concentration of lead of 400 mg/kg. The SRL and RSLr for lead in soil is 400 mg/kg. Selenium was identified in one of the soil samples (B-13 at 11 feet below ground surface) at 5.6 mg/kg which is above the SRL of 5.0 mg/kg and below the RSLr of 39 mg/kg. Based upon this information the selenium is not considered to be a concern.

Ten groundwater samples were analyzed for VOCs, SVOCs and 8 RCRA metals. No VOCs were detected in the samples analyzed; SVOCs were detected in the samples

from B-1, B-2, B-4, B-5, B-6, B-7, B-9, B-13 and B-15. However, no regulatory limits have been set for the compounds detected. The only metals detected in groundwater samples over the Maximum Concentration Levels, set by EPA for drinking water (MCL) was arsenic. The arsenic was within concentrations considered to be background for the area.

5.4 Other Concerns

5.4.1 Significant Assumptions

It was assumed, based on available data, that the selected sample locations were the most likely to have the highest concentrations of the target analytes.

5.4.2 Limitations and Exceptions

No limitations or exceptions were encountered during the completion of the Phase II ESA.

5.4.3 Special Terms and Conditions

No special terms or conditions are noted in this report.

5.5 Conclusions / Objectives Met

Converse performed a Phase II Environmental Site Assessment on several properties along Main Street (APNs: 002-183-002, 002-182-006, 002-183-011); and, the City of Carlin ROW surrounding the historic Union Pacific Rail Road Yard, Carlin, Elko County, Nevada in conformance with the scope and limitations of ASTM, E 1903-11 to investigate if the adjoining and/or up-gradient Yard had impacted the Property.

TPH concentrations over the SRL were detected in soil samples collected from borings B-3, B-4 and B-5. These borings are all adjacent and down-gradient from the Yard. Concentrations of lead were reported in a soil sample collected from B-3 at the RSLr level. This boring is adjacent and down-gradient of the Yard. Concentrations of mercury above the RSL were reported in boring B-9, which is adjacent to the Yard. SVOCs were detected in groundwater in eight borings. All these borings are down gradient of the Yard.

6.0 Recommendations

Based on the results of the laboratory analyses and field observations, it is Converse opinion that the objective of the Phase II ESA was met.

Main Street Properties APNs: 002-183-002, 002-182-006, 002-183-011 and,
City Right-of-Way Surrounding the Old Railroad Maintenance Yard
Carlin, Elko County, Nevada

The source of the contamination identified during this Phase II in the soil and groundwater is most likely the Yard. Additional soil and groundwater sampling should be conducted at the Yard and adjoining properties to better define the amount and type of contamination present.

In addition to the properties that were adjoining the Yard, three other parcels were investigated. These parcels are down-gradient of the Yard. No soil contamination was identified at these parcels. No VOCs were identified in the groundwater; however, SVOCs were detected. The SVOCs detected do not have regulatory limits. Additionally, no soil contamination was identified; therefore, the SVOC's identified in the groundwater should not limit development of these three sites and no additional investigation is recommended for these sites.

7.0 Signatures of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312.

Kathi Brandmueller, PE, CEM

CEM No. 1197, Expires 12/22/14

Senior Engineer

Nevada Certified Environmental Manager Jurat

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all Federal, State, and local statutes, regulations, and ordinances.

8.0 Reliance

This Report is for the sole benefit and exclusive use of the City of Carlin in accordance with the terms and conditions presented of the Brownfields Contract under which these services have been provided. Preparation of this Report has been in accordance with generally accepted environmental practices. No other warranty, either expressed or implied, is made.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Property. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Property. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the assessment. Also, events may occur after the Property visit, which may result in contamination of the Property. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented. Any reliance on this report by Third Parties shall be at the Third Party's sole risk.

9.0 References and Sources of Information

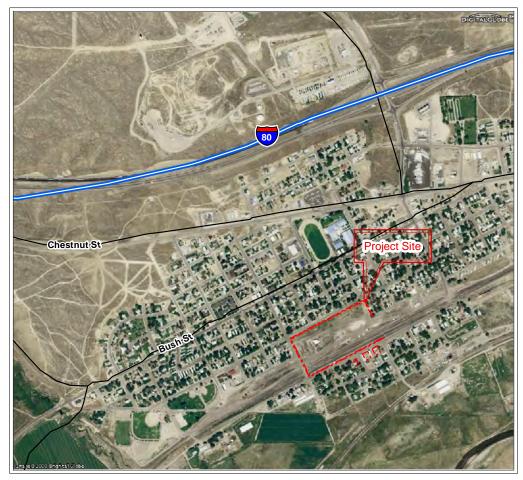
ASTM, E 1903-11. Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, American Society for Testing and Materials

Converse Phase I Environmental Site Assessment, Eklund Property, 7th Street. Carlin, Elko County, Nevada, September 19, 2012.

Field Sampling Plan Petroleum Phase II Environmental Site Assessment, Petroleum Phase II Environmental Site Assessment







1 inch = 0.25 miles





Boring Locations Phase II Property Boundary

BORING LOCATIONS

CITY OF CARLIN PHASE II

Elko County Carlin, Nevada

Plate 1

Project No: 08-73103-02 Date Created: 01/20/14 Rail Yard Phase II Borings.mxd

Boring Logs

Appendix A

Date of Drilling: 11-6-2013
Location:
Borehole Diameter: 2"
Logged By: FMR
Cround Surface Elevation (ft): 4,902
Equipment: GeoProbe
Driving Wt. and Drop:

M L	riller: Wes ogged By:	tern Strata FMR	Borehole Diameter: 2" Groundwater Depth (ft): 12 feet	Equipment Driving W						
ED			MARY OF SUBSURFACE CONDIT		Sam				Ę.	ts
	Depth (ft) Graphic Log	be read with the r the exploration. S change at this loc	the report prepared by Converse for this prepared. This summary applies only at the local subsurface conditions may differ at other local ation with the passage of time. The data present the actual conditions encountered.	tion and time of ations and may	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
-		ASPHALT								
- - -	2 - 4	SILTY SAND (SM); Medium Dense, Moist, Light Bro	wn						
- - -	6			*						PID 0.0 ppm
- - -	8 - 1			*						PID 0.0 ppm
- 1 -	12 -	₩ Wet Boring Termina	ted							PID 0.0 ppm
- 1 - 1 	14 -	Borning Termina	ica							
- - -	16 -									
- - -	20 -									
- - -2	22 -									
- - -2	24 -									
	26 _ nd of Explo	ration at 13.0'	Converse Sampler (white	symbol=no recovery)		SPT Sar	mpler ((white sy	mbol=no	o recovery)

Carlin Brownfields
Former Railyard and Surrounding Properties Right of Ways
Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and Environmental Sciences Drawing No.

DRAFTED BY FMR **Date of Drilling:** 11-6-2013 Location: Ground Surface Elevation (ft): 4,902 Driller: Western Strata **Borehole Diameter: 2"** Equipment: GeoProbe Logged By: FMR Groundwater Depth (ft): 13' **Driving Wt. and Drop:** SUMMARY OF SUBSURFACE CONDITIONS Samples Dry Density (lb/cf) Field or Lab Tests Drill Rate (sec/ft) This log is part of the report prepared by Converse for this project and should Graphic Log Moisture (%) be read with the report. This summary applies only at the location and time of Depth (ft) the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered. ASPHALT SILTY SAND (SM); Medium Dense, Moist, Light Brown 2 PID 0.0 ppm PID 0.0 ppm PID 0.0 SILTY SAND with Gravel (SM); Dense, Wet, Black ppm Boring Terminated 18 20 22 24 26 End of Exploration at 16.0' SPT Sampler (white symbol=no recovery) Converse Sampler (white symbol=no recovery)



Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and Environmental Sciences Drawing No.

Date of Drilling: 12/6/13 Location: Ground Surface Elevation (ft): 4,902 Driller: Western Strada **Borehole Diameter: 2" Equipment:** Geo Probe

DRAFTED BY FMR Logged By: FMR Groundwater Depth (ft): Not Encountered Driving Wt. and Drop: NA SUMMARY OF SUBSURFACE CONDITIONS Samples Dry Density (lb/cf) Field or Lab Tests Drill Rate (sec/ft) This log is part of the report prepared by Converse for this project and should Graphic Log Moisture (%) be read with the report. This summary applies only at the location and time of O Depth (ft) the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered. ASPHALT SILTY SAND with Gravel (SM); Fill, Dense, Moist, Dark Brown Brown and Black with Debris PID 0.0 ppm PID 0.0 Refusal ppm 8 10 12 14 18 20 22 24

> **Carlin Brownfields** Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Converse Sampler (white symbol=no recovery)

Project No.

SPT Sampler (white symbol=no recovery)

08-73103-01



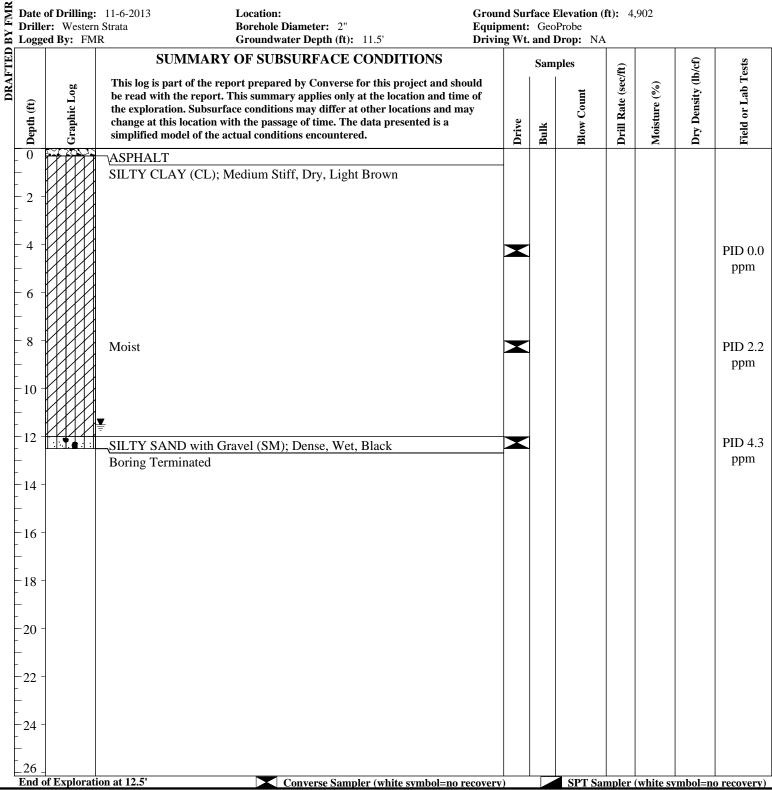
26

End of Exploration at 7.0'

Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-6-2013 Location: Ground Surface Elevation (ft): 4,902 Driller: Western Strata **Borehole Diameter: 2" Equipment:** GeoProbe



Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

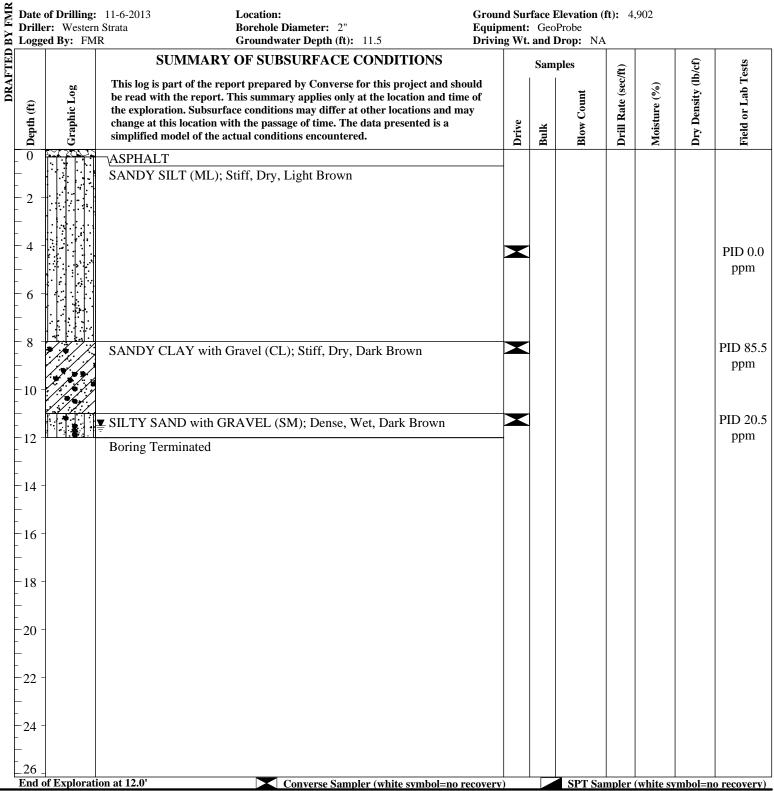
08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-6-2013 Location: Ground Surface Elevation (ft): 4,902 Driller: Western Strata **Borehole Diameter: 2" Equipment:** GeoProbe Logged By: FMR Groundwater Depth (ft): 11.5 Driving Wt. and Drop: NA



Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-6-2013
Driller: Western Strata
Logged By: FMR Location: **Ground Surface Elevation (ft):** 4,902 **Borehole Diameter: 2**" Equipment: GeoProbe

SUMMARY OF SUBSURFACE CONDITIONS SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read with the report. This summary applies only at the location and time of the explorations. Subsurface conditions my differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered. SAND WILT WITH Gravel (ML); Stiff, Moist, Dark Brown PID 0.3 PID 0.4 PID 0.4 PID 0.5 P	B	Logge	ed By: FMR	Groundwater Depth (ft): 12'	Driving	g Wt.	and I	Orop: NA				
the exploration. Subsurface conditions may differ at other locations and may change at this location with be passage of time. The data presented is a simplified model of the actual conditions encountered. ASPHALT SILTY SAND (SM); Loose, Dry, Light Brown PID 5.3 ppm SANDY SILT with Gravel (ML); Stiff, Moist, Dark Brown SAND with Gravel (SP); Dense, Wet, Dark Brown Boring terminated Boring terminated	FTED						Sam	ples	/ft)		(Jɔ/q	ests
SILTY SAND (SM); Loose, Dry, Light Brown PID 5.3 ppm SANDY SILT with Gravel (ML); Stiff, Moist, Dark Brown PID 0.9 ppm SAND with Gravel (SP); Dense, Wet, Dark Brown PID 0.3 ppm Boring terminated Boring terminated	DRA	Depth (ft)	Graphic Log	be read with the report. This summary applies only at the location and time the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a	of	Drive	Bulk	Blow Count	Drill Rate (sec	Moisture (%)	Dry Density (Il	Field or Lab T
PID 5.3 ppm SANDY SILT with Gravel (ML); Stiff, Moist, Dark Brown PID 0.9 ppm SAND with Gravel (SP); Dense, Wet, Dark Brown Boring terminated Boring terminated		_ 0										
PID 0.9 ppm SANDY SILT with Gravel (ML); Stiff, Moist, Dark Brown PID 0.9 ppm Boring terminated Boring terminated 14 - 20 - 22 - 24 - 24 - 26		- - -		SILTY SAND (SM); Loose, Dry, Light Brown		•						PID 5.3
SANDY SILT with Gravel (ML); Stiff, Moist, Dark Brown PID 0.3 ppm Boring terminated Boring terminated 11 - 20 - 22 - 24 - 26 - 26 - 26 - 26 - 26 - 26		- -										ppm
ppm Boring terminated -14 -18 -20 -22 -24 -24 -26 -		- - -				_						ppm
-14		- -12 -	•	,		×						1
-18 - -20 - -22 - -24 - -24 - -26 -		- -14 - - -		Boring terminated								
-20 - -22 - -24 - -24 - -26 -		-16 - - -										
-22 - -24 - -26 -		- - -										
		- - -										
		- - -										
		_										
			of Exploratio	on at 13.0' Converse Sampler (white symbol=no re	covery)			SPT Sa	mpler	(white sy	mbol=n	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-7-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902

Borehole Diameter: 2" Equipment: GeoProbe

BY]		r: Western ed By: FMl		Equipm Driving			Probe Prop: NA				
DRAFTED BY			SUMMARY OF SUBSURFACE CONDITIONS			Sam	ples	ft)		(J2/0	ests
DRAF	Depth (ft)	Graphic Log	This log is part of the report prepared by Converse for this project and sl be read with the report. This summary applies only at the location and ti the exploration. Subsurface conditions may differ at other locations and a change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	ne of nay	Drive	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
	- 2 -		SANDY SILT (ML); Medium Stiff, Dry, Light Brown								
-	- 4 - - - - 6 - -		Stiff, Slightly Moist		•						PID 0.6 ppm
	- 8 - - - -10 -		SILTY CLAY (CL); Stiff, Slightly Moist, Light Brown		×						PID 1.0 ppm
-	-12 - - -		Boring Terminated		×						PID 1.9 ppm
-	-14 - - - -										
-	-16 - - -										
-	-18 - - -										
-	-20 - - -										
-	-22 - - -										
-	-24 - - -										
	_26 _ End o	of Explorati	on at 12.5' Converse Sampler (white symbol=no	recovery)			SPT Sai	npler	(white sy	mbol=ne	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

~ _									
🚆 Drille	of Drilling: e r: Western e d By: FM1	n Strata Borehole Diameter: 2" Equ	ipment	:	Elevation (Drop: NA		,902		
TED		SUMMARY OF SUBSURFACE CONDITIONS		Sam				(ct)	sts
Depth (ft)	Graphic Log	This log is part of the report prepared by Converse for this project and should be read with the report. This summary applies only at the location and time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	Drive	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
- 0 - 2 - 2 - 4		SANDY SILT (ML); Medium Stiff, Dry, Light Brown					_		
- - - 6 -		SANDY CLAY (CL); Medium Stiff, Slightly Moist, Light Brown	X						PID 0.1 ppm
- 8 - - 8 - - 10 -	<i>[]</i>	Refusal							ppm
-12 -									
- -14 - - -									
-16 - - - - -18 -									
- -20 -									
-22 - - - -24 -									
	of Explorati	ion at 7.5' Converse Sampler (white symbol=no recove	ry)		SPT Sa	mpler	(white sy	mbol=n	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

DRAFTED BY FMR **Date of Drilling:** 11-7-2013 Location: Ground Surface Elevation (ft): 4,902 Driller: Western Strata **Borehole Diameter: 2" Equipment:** GeoProbe Logged By: FMR Groundwater Depth (ft): 11' Driving Wt. and Drop: NA SUMMARY OF SUBSURFACE CONDITIONS Samples Dry Density (lb/cf) Field or Lab Tests Drill Rate (sec/ft) This log is part of the report prepared by Converse for this project and should Graphic Log Moisture (%) be read with the report. This summary applies only at the location and time of Depth (ft) the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered. SANDY SILT (ML); Medium Stiff, Dry, Light Brown 2 PID 0.2 ppm 8 PID 0.2 ppm SAND with Gravel (SP); Dense, Wet, Dark Brown **Boring Terminated** 14 18 20 22

Carlin Brownfields
Former Railyard and Surrounding Properties Right of Ways
Carlin, Nevada

Converse Sampler (white symbol=no recovery)

Project No.

SPT Sampler (white symbol=no recovery)

08-73103-01



End of Exploration at 11.5'

24

26

Over 60 Years of Dedication in Engineering and Environmental Sciences Drawing No.

Date of Drilling: 11-7-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902

Borehole Diameter: 2" Equipment: GeoProbe

BY	Logged By:		R Groundwater Depth (ft): 13'	Driving	g Wt.	and l	Prop: NA	١.			
DRAFTED	Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and shot be read with the report. This summary applies only at the location and time the exploration. Subsurface conditions may differ at other locations and ma change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	of	Drive	Sam	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
	- 0 - 2		SILTY SAND (SM); Dense, Slightly Moist, Dark Brown		×						PID 0.4 ppm
	-12 - - - - -14 - -	1. 6.4	SAND (SP); Dense, Wet, Dark Brown		*						PID 2.2 ppm
	-16 - -18 - -20 - -22 - -24 - -26 -	<u> </u>	Boring Terminated								PID 2.8 ppm
		f Exploratio	on at 16.0' Converse Sampler (white symbol=no re	ecovery)			SPT Sa	mpler	(white sy	mbol=n	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-7-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902

Borehole Diameter: 2" Equipment: GeoProbe

ΒY		ed By: FM		Equipme Driving V			Prop: NA				
TED			SUMMARY OF SUBSURFACE CONDITIONS		S	Sam	ples	ft)		/cf)	sts
DRAFTED BY	Depth (ft)	Graphic Log	This log is part of the report prepared by Converse for this project and should be read with the report. This summary applies only at the location and time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	of	Drive	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
	- 2 -		SILTY SAND (SM); Dense, Dry, Dark Drown		K						PID 0.6 ppm
-	- 8 - - 8 - - 10 - - 12 -		Moist	2							PID 1.0 ppm PID 3.7 ppm
	-14 - -16 -		SILTY SAND with Gravel (SM); Dense, Wet, Dark Brown								PID 4.4 ppm
-	- -18 - -		Boring Terminated								
	-20 - - - -22 -										
	-24 - -24 - - - -26 - End o	f Explorati	ion at 17.0' Converse Sampler (white symbol=no rec	covery)			SPT Sa	mpler	(white sy	mbol=n	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-7-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902

Borehole Diameter: 3" Equipment: GeoProbe

BY		ed By: FM		iving V			Prop: NA	1			
TED			SUMMARY OF SUBSURFACE CONDITIONS			Sam	ples	f ((cf)	ests
DRAFTED BY	Depth (ft)	Graphic Log	This log is part of the report prepared by Converse for this project and should be read with the report. This summary applies only at the location and time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.		Drive	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
	- 2 -		SILTY SAND (SM); Loose, Dry, Light Brown								
	- 4 - - - - - 6 - -		SILTY SAND with Gravel (SM); Medium Dense, Dry, Light Brown								PID 1.7 ppm
	- - 8 - -	1 af .1** 1 af .1	Refusal								ppm
	- 10 - -										
	- -12 -										
	- - -14 - -										
	- - -16 -										
	- - -18 -										
	- - -20 -										
	- - -22 -										
	- - - -24 -										
		of Explorati	Son at 751				ODT C		(-1.*t		
	ena (л ехрюган	tion at 7.5' Converse Sampler (white symbol=no recov	ery)			SPISa	mpier	(wnite sy	mpol=ne	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-6-2013
Location:
Ground Surface Elevation (ft): 4,902
Driller: Western Strata
Borehole Diameter: 2"
Equipment: GeoProbe
Equipment: GeoProbe

BY 1	Driller: Wester Logged By: FN			Equipr Driving							
DRAFTED BY	Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and sl be read with the report. This summary applies only at the location and tin the exploration. Subsurface conditions may differ at other locations and rechange at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	ould ne of	Drive	Sam		Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
-	0		CONCRETE								<u> </u>
	- - - 2 - -		SILTY SAND (SM); Medium Dense, Moist, Light Brown								
-	- 4 - - - 6 -				*						PID 0.0 ppm
	- 8 - - - - 10 -				×						PID 0.0 ppm
	-10 -		■ SAND with Gravel (SP); Dense, Wet, Dark Brown		\mathbf{x}						PID 0.0
	-										ppm
ļ	-12 -		Boring Terminated								
	- -14 - -										
	-16 - -										
	-18 - -18 -	-									
	-20 -										
	-22 - -	_									
	-24 - 										
	_26 _										
		of Explorati	ion at 11.5' Converse Sampler (white symbol=no	recovery)			SPT Sa	mpler	(white sy	mbol=n	recovery)

Carlin Brownfields
Former Railyard and Surrounding Properties Right of Ways
Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and Environmental Sciences Drawing No.

Date of Drilling: 11-6-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902

Borehole Diameter: 2" Equipment: GeoProbe

E Logg	ged By: FM		ing Wt		Drop: NA	Α.			
DRAFTED BY		SUMMARY OF SUBSURFACE CONDITIONS		Sam	ples	/ft)		b/cf)	ests
DRA. Depth (ft)	Graphic Log	This log is part of the report prepared by Converse for this project and should be read with the report. This summary applies only at the location and time of the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	Drive	Bulk	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
_ 0		¬GRAVEL							
- 2		SANDY SILT (ML); Medium Stiff, Moist, Light Brown							PID 0.0
6	-								ppm
- 8	_	Refusal							
-10	_								
12	_								
- - -14	_								
- - -16	_								
-18									
-									
-20									
-22 ·									
-24 - - -									
_26 . End	of Explorati	on at 7.0' Converse Sampler (white symbol=no recove	ry)		SPT Sa	 mpler	(white sy	mbol=ne	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Date of Drilling: 11-6-2013
Driller: Western Strata Location: **Ground Surface Elevation (ft):** 4,902 **Borehole Diameter: 2"** Equipment: GeoProbe

Logg	ogged By: FMR Groundwater Depth (ft): 12' Driving Wt. and Drop: NA									
Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and shot be read with the report. This summary applies only at the location and time the exploration. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplified model of the actual conditions encountered.	of		Bank	Blow Count	Drill Rate (sec/ft)	Moisture (%)	Dry Density (lb/cf)	Field or Lab Tests
- 2 - 4 - 6 - 6 - 6		SILTY SAND (SM); Dense, Dry, Light Brown	>							PID 0.0 ppm
- 8 10 ·		GRAVEL with Sand (GP); Dense, Very Moist, Light Brown								PID 1.2 ppm
-12 - - - - -14 -		Boring Terminated								PID 0.7 ppm
-16 - - - - -18 -	_									
-20	_									
-22										
-24 - - - - 26 - End	of Exploratio	on at 12.5' Converse Sampler (white symbol=no re	ecovery)			SPT Sar	mpler	(white sy	mbol=n	o recovery)

Carlin Brownfields Former Railyard and Surrounding Properties Right of Ways Carlin, Nevada

Project No.

08-73103-01



Over 60 Years of Dedication in Engineering and **Environmental Sciences**

Drawing No.

Analytical Reports & Chain of Custody Documentation

Appendix E



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/ Carlin Brownfields RRP

Dissolved Metals by ICPMS EPA Method 200.8

Client ID: B-13		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Date Sampled 11/06/13 09-20 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13	Client ID: B-13					
Scientum (Se), Dissolved ND	Lab ID: CON13110824-05A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Scientim (Se), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/1	Date Sampled 11/06/13 09:20	Arsenic (As), Dissolved	0.015	0.0050 mg/L	11/12/13	11/12/13
Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13	• •	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Barium (Ba), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13		Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	
Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13		Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	
Lead (Pb), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13		Barium (Ba), Dissolved	0.10	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-2		Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
Lab ID: CON13110824-10A Chromium (Cr), Dissolved ND 0.010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/1		Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 09:55	Client ID: B-2					
Date Sampled 11/06/13 09:55 Arsenic (As), Dissolved 0.0086 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12	Lab ID: CON13110824-10A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Selenium (Se), Dissolved ND 0.0050 mg/L 11/12/13 11/13/13 11/13/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/1			0.0086	0.0050 mg/L	11/12/13	11/12/13
Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13		Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/13/13
Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13			ND	0.0050 mg/L	11/12/13	11/12/13
Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13			ND	0.0020 mg/L	11/12/13	11/12/13
Lead (Pb), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13		Barium (Ba), Dissolved	0.075	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-1 Lab ID: CON13110824-14A Chromium (Cr), Dissolved ND 0.016 mg/L 11/12/13 11/12/13 Date Sampled 11/06/13 10:40 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Selenium (Se), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 Client ID: B-15 Lab ID: CON13110824-21A Chromium (Cr), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Date Sampled 11/06/13 13:15 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Date Sampled 11/06/13 13:15 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13		Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
Lab ID : CON13110824-14A Chromium (Cr), Dissolved ND 0.010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/		Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 10:40 Arsenic (As), Dissolved 0.016 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/1	Client ID: B-1					
Selenium (Se), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/1	Lab ID: CON13110824-14A	Chromium (Cr), Dissolved	ND	$0.010~\mathrm{mg/L}$	11/12/13	11/12/13
Selenium (Se), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/1	Date Sampled 11/06/13 10:40	Arsenic (As), Dissolved	0.016	0.0050 mg/L	11/12/13	11/12/13
Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13		Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Barium (Ba), Dissolved 0.061 0.0050 mg/L 11/12/13 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 Lead (Pb), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/1		Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 11/12/13		Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
Lead (Pb), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13		Barium (Ba), Dissolved	0.061	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-15 Lab ID: CON13110824-21A Chromium (Cr), Dissolved ND 0.010 mg/L 11/12/13 11/12/13 Date Sampled 11/06/13 13:15 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Selenium (Se), Dissolved 0.0052 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13		Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
Lab ID : CON13110824-21A Chromium (Cr), Dissolved ND 0.010 mg/L 11/12/13 11/12/13 Date Sampled 11/06/13 13:15 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Selenium (Se), Dissolved 0.0052 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13		Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 13:15 Arsenic (As), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Selenium (Se), Dissolved 0.0052 0.0050 mg/L 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13	Client ID: B-15					
Selenium (Se), Dissolved 0.0052 0.0050 mg/L 11/12/13 11/12/13 11/12/13 Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13 11/12/13	Lab ID: CON13110824-21A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Silver (Ag), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13 Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13	Date Sampled 11/06/13 13:15	Arsenic (As), Dissolved	ND	0.0050~mg/L	11/12/13	11/12/13
Cadmium (Cd), Dissolved ND 0.0020 mg/L 11/12/13 11/12/13 Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13	,	Selenium (Se), Dissolved	0.0052	0.0050 mg/L	11/12/13	11/12/13
Barium (Ba), Dissolved 0.079 0.0050 mg/L 11/12/13 11/12/13 Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13		Silver (Ag), Dissolved	ND	0,0050 mg/L	11/12/13	11/12/13
Mercury (Hg), Dissolved ND 0.0010 mg/L 11/12/13 11/12/13		Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
1.6,, 5,555.145		Barium (Ba), Dissolved	0.079	$0.0050~\mathrm{mg/L}$	11/12/13	11/12/13
Lead (Pb), Dissolved ND 0.0050 mg/L 11/12/13 11/12/13		Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	
		Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13



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Client ID: B-5					
Lab ID: CON13110824-28A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 15:35	Arsenic (As), Dissolved	0.0058	0.0050 mg/L	11/12/13	11/12/13
	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.26	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-6					
Lab ID: CON13110824-32A	Characters (Co) Discolared	ND	0.010 mg/L	11/12/13	11/12/13
	Chromium (Cr), Dissolved	ND 0.015	_	11/12/13	11/12/13
Date Sampled 11/06/13 16:35	Arsenic (As), Dissolved	0.015	0.0050 mg/L	11/12/13	11/12/13
	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.18	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L		11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-15-A					
Lab ID: CON13110824-33A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 13:16	Arsenic (As), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
2410 24111910 11/00/15 15/10	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.083	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	. ,,		_		
Client ID: B-4-A					*****
Lab ID: CON13110824-34A	` "	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 14:41	Arsenic (As), Dissolved	0.0051	0.0050 mg/L	11/12/13	11/12/13
	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.22	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: Field Blank					
Lab ID: CON13110824-36A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 16:45	Arsenic (As), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11700/13 10:13	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	, ,		•		
Client 1D: B-4					
Lab ID: CON13110824-39A	, ,,	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/06/13 14:40	Arsenic (As), Dissolved	0.0067	0.0050 mg/L	11/12/13	11/12/13
	Selenium (Se), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.23	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13



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ND = Not Detected



Roger Scholl Kandy Soulan Walter 4

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.







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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/ Carlin Brownfields RRP

Metals by ICPMS EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: B-13@11FT					
Lab ID: CON13110824-04A	Chromium (Cr)	16	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 08:40	Arsenic (As)	19	1.0 mg/Kg	11/13/13	11/13/13
•	Selenium (Se)	5.6	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	110	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	11	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-2@12FT					
Lab ID: CON13110824-08A	Chromium (Cr)	15	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 09:40	Arsenic (As)	3.1	1.0 mg/Kg	11/13/13	11/13/13
•••••••••••••••••••••••••••••••••••••••	Selenium (Sc)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	96	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	2.6	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-1@12FT					
Lab ID: CON13110824-13A	Chromium (Cr)	11	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 10:29	Arsenic (As)	19	1.0 mg/Kg	11/13/13	11/13/13
-	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	360	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	9.0	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-3@6.5FT					
Lab ID: CON13110824-16A	Chromium (Cr)	23	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 11:35	Arsenic (As)	27	1.0 mg/Kg	11/13/13	11/13/13
•	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	2.0	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	18	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	320	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	1.7	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	400	1.0 mg/Kg	11/13/13	11/13/13



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Client ID: B-15@8FT					
Lab ID: CON13110824-18A	Chromium (Cr)	15	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 12:40	Arsenic (As)	8.4	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	550	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	10	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-15A@8FT					
Lab ID: CON13110824-19A	Chromium (Cr)	15	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 12:41	Arsenic (As)	7.5	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/00/13 12:41	Selenium (Se)	2.1	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	1,1	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	200	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	9.6	1.0 mg/Kg	11/13/13	11/13/13
	Leau (F0)	9.0	1.0 IIIg/Rg	11/13/13	11/15/15
Client ID: B-15@12FT					
Lab ID: CON13110824-20A	Chromium (Cr)	4.7	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 12:48	Arsenic (As)	5.8	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	67	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	3.5	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-4@8FT					
Lab ID: CON13110824-23A	Chromium (Cr)	18	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 14:00	Arsenic (As)	11	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/00/13 14:00	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	850	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	12	1.0 mg/Kg	11/13/13	11/13/13
	Exam (10)	12			
Client ID: B-4@12FT					
Lab ID: CON13110824-24A		8.1	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 14:10	Arsenic (As)	5.8	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	84	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	4.0	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-5@8FT					
Lab ID: CON13110824-26A	Chromium (Cr)	20	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 15:15	Arsenic (As)	11	1.0 mg/Kg	11/13/13	11/13/13
Date Gampier 11/00/15 15.15	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	1.1	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	530	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	12	1.0 mg/Kg	11/13/13	11/13/13
	2000 (1 U)	12			



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Client ID: B-5@12FT					
Lab ID: CON13110824-27A	Chromium (Cr)	13	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 15:22	Arsenic (As)	5.4	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	130	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	4.7	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-6@4FT					
Lab ID: CON13110824-29A	Chromium (Cr)	17	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 16:05	Arsenic (As)	5.5	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	290	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	7.0	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-6@11FT					
Lab ID: CON13110824-31A	Chromium (Cr)	9.2	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 16:20	Arsenic (As)	4.5	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	410	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	5.5	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-4A@12FT					
Lab ID: CON13110824-35A	Chromium (Cr)	6.1	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/06/13 14:11	Arsenic (As)	5.5	1.0 mg/ Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	73	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND .	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	4.1	1.0 mg/Kg	11/13/13	11/13/13

Sample results were calculated on a wet weight basis. ND = Not Detected



Roger Scholl Kandy Souland

Walter Strikm

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/15/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-05A

Client I.D. Number: B-13

Attn: Kathi Brandmueller

Phone: (775) 284-9752 Fax:

(775) 856-3513

Sampled: 11/06/13 09:20

Received: 11/08/13

Extracted: 11/08/13 13:11 Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	0.040	0.020 μg/L	
2	2-Methylnaphthalene	0.039	0.020 μg/L	
3	1-Methylnaphthalene	0.030	0.020 μg/L	
4	Acenaphthylene	ND	0.020 μg/L	
5	Acenaphthene	ND	0.020 μg/L	
6	Fluorene	ND	0.020 μg/L	
7	Phenanthrene	ND	0.020 μg/L	
8	Anthracene	ND	0.020 μg/L	
9	Fluoranthene	ND	0.020 μg/L	
10	Pyrene	ND	0.020 μg/ L	
11	Benzo(a)anthracene	ND	0.020 μg/L	
12	Chrysene	ND	0.020 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L	
14	Benzo(a)pyrene	ND	0.020 μg/L	
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L	
16	Dibenz(a,h)anthracene	ND	0.020 µg/L	
17	Benzo(g,h,i)perylene	ND	0.020 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Kandy Nowlman Roger Scholl Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/18/13 Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Attn:

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-10A

Client I.D. Number: B-2

Phone: (775) 284-9752

Kathi Brandmueller

(775) 856-3513

Sampled: 11/06/13 09:55

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	0.046	0.020 μg/L
2	2-Methylnaphthalene	0.18	0.020 μg/L
3	1-Methylnaphthalene	0.16	0.020 μg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	0.025	0.020 μg/L
6	Fluorene	ND	0.020 μg/L
7	Phenanthrene	0.067	0.020 μg/L
8	Anthracene	ND	0.020 μg/L
9	Fluoranthene	ND .	0.020 μg/L
10	Pyrene	ND	0.020 μg/L
11	Benzo(a)anthracene	ND	0.020 μg/L
12	Chrysene	ND	0.020 µg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 µg/L
14	Benzo(a)pyrene	ND	0.020 μ g /L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 µg/L
16	Dibenz(a,h)anthracene	ND	0.020 μ g /L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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Attn:

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Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Client I.D. Number: B-1

Alpha Analytical Number: CON13110824-14A

Sampled: 11/06/13 10:40

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	0.021	0.020 µg/L	
2	2-Methylnaphthalene	ND	0.020 µg/L	
3	1-Methylnaphthalene	ND	0.020 µg/L	
4	Acenaphthylene	ND	0.020 µg/L	
5	Acenaphthene	ND	0.020 µg/L	
6	Fluorene	ND	0.020 µg/L	
7	Phenanthrene	0.038	0.0 20 µg/ L	
8	Anthracene	ND	0.020 µg/L	
9	Fluoranthene	ND	0.020 µg/L	
10	Pyrene	ND	0.020 μg/L	
11	Benzo(a)anthracene	ND	0.020 μg/L	
12	Chrysene	ND	0.020 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 µg/L	
14	Benzo(a)pyrene	ND	0.020 µg/L	
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L	
16	Dibenz(a,h)anthracene	ND	0.020 µg/L	
17	Benzo(g,h,i)perylene	ND	0.020 µg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



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08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-16A Client I.D. Number: B-3@6.5FT

Sampled: 11/06/13 11:35

Received: 11/08/13

Extracted: 11/20/13 11:18

Analyzed: 11/26/13

Semivolatile Organics by GC/MS - SIM EPA Method SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	ND	250 µg/Kg	
2	2-Methylnaphthalene	ND	250 μg/Kg	
3	1-Methylnaphthalene	ND	250 µg/Kg	
4	Acenaphthylene	ND	250 μg/Kg	
5	Acenaphthene	ND	250 μg/Kg	
6	Fluorene	ND	250 μg/Kg	
7	Phenanthrene	ND	250 μ g /Kg	
8	Anthracene	ND	250 µg/Kg	
9	Fluoranthene	ND	250 μ g /Kg	
10	Pyrene	ND	250 μ g/ Kg	
11	Benzo(a)anthracene	ND	250 μg/Kg	
12	Chrysene	ND	250 μg/Kg	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	500 μg/Kg	
14	Benzo(a)pyrene	ND	250 μg/Kg	
15	Indeno(1,2,3-cd)pyrene	ND	250 µg/Kg	
16	Dibenz(a,h)anthracene	ND	250 µg/Kg	
17	Benzo(g,h,i)perylene	ND	250 μg/Kg	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to the hydrocarbons present in the sample.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger Scholl

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08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-24A

Client I.D. Number: B-4@12FT

Attn: Kathi Brandmueller

Phone: (775) 284-9752 Fax:

(775) 856-3513

Sampled: 11/06/13 14:10

Received: 11/08/13

Extracted: 11/20/13 11:18

Analyzed: 11/26/13

Semivolatile Organics by GC/MS - SIM EPA Method SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	ND	250 μg/Kg	_
2	2-Methylnaphthalene	490	250 μg/Kg	
3	1-Methylnaphthalene	1,000	250 μg/Kg	
4	Acenaphthylene	ND	250 μg/Kg	
5	Acenaphthene	ND	250 µg/Kg	
6	Fluorene	ND	250 μg/Kg	
7	Phenanthrene	ND	250 μg/Kg	
8	Anthracene	ND	250 μg/Kg	
9	Fluoranthene	ND	250 µg/Kg	
10	Рутепе	ND	250 μg/Kg	
11	Benzo(a)anthracene	ND	250 μg/Kg	
12	Chrysene	ND	250 µg/Kg	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	500 μg/Kg	
14	Benzo(a)pyrene	ND	250 μg/Kg	
15	Indeno(1,2,3-cd)pyrene	ND	250 μg/Kg	
16	Dibenz(a,h)anthracene	ND	250 μg/Kg	
17	Benzo(g,h,i)perylene	ND	250 μg/Kg	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to the hydrocarbons present in the sample.

Sample results were calculated on a wet weight basis. ND = Not Detected



Roger Scholl

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12/2/13 Report Date



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08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-21A

Client I.D. Number: B-15

Phone: (775) 284-9752 Fax:

Attn:

(775) 856-3513

Kathi Brandmueller

Sampled: 11/06/13 13:15

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	0.028	0.020 μg/L
2	2-Methylnaphthalene	ND	0.020 μg/L
3	1-Methylnaphthalene	ND	0.020 µg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	ND	0.020 µg/L
6	Fluorene	ND	0.020 μg/L
7	Phenanthrene	ND	0.020 µg/L
8	Anthracene	ND	0.020 µg/L
9	Fluoranthene	ND	0.020 µg/L
10	Pyrene	ND	0.020 µg/L
11	Benzo(a)anthracene	ND	0.020 μg/L
12	Chrysene	ND	0.020 µg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 µg/L
14	Benzo(a)pyrene	ND	0.020 μg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 µg/L
16	Dibenz(a,h)anthracene	ND	0.020 µg/L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

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08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-26A

Client I.D. Number: B-5@8FT

Sampled: 11/06/13 15:15

Received: 11/08/13

Extracted: 11/12/13 15:29

Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	ND	250 µg/Kg	
2	2-Methylnaphthalene	ND	250 µg/Kg	
3	1-Methylnaphthalene	ND	250 µg/Kg	
4	Acenaphthylene	ND	250 µg/Kg	
5	Acenaphthene	ND	250 µg/Kg	
6	Fluorene	ND	250 µg/Kg	
7	Phenanthrene	ND	250 μg/Kg	
8	Anthracene	ND	250 μg/Kg	
9	Fluoranthene	ND	250 µg/Kg	
10	Pyrene	ND	250 µg/Kg	
11	Benzo(a)anthracene	ND	250 μg/Kg	
12	Chrysene	ND	250 μg/Kg	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	500 μg/Kg	
14	Benzo(a)pyrene	ND	250 μg/Kg	
15	Indeno(1,2,3-cd)pyrene	ND	250 μg/Kg	
16	Dibenz(a,h)anthracene	ND	250 µg/Kg	
17	Benzo(g,h,i)perylene	ND	250 µg/Kg	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to the hydrocarbons present in the sample.

Sample results were calculated on a wet weight basis. ND = Not Detected



Roger Scholl

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11/18/13 Report Date



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Attn: Kathi Brandmueller (775) 284-9752

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(775) 856-3513

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-27A

Client I.D. Number: B-5@12FT

Sampled: 11/06/13 15:22

Received: 11/08/13

Extracted: 11/12/13 15:29

Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	28	25 μg/Kg	
2	2-Methylnaphthalene	110	25 μg/Kg	
3	1-Methylnaphthalene	250	25 µg/Kg	
4	Acenaphthylene	ND	25 μg/Kg	
5	Acenaphthene	40	25 μg/Kg	
6	Fluorene	ND	25 µg/Kg	
7	Phenanthrene	140	25 µg/Kg	
8	Anthracene	ND	25 µg/Kg	
9	Fluoranthene	ND	25 μg/Kg	
10	Pyrene	ND	25 µg/Kg	
11	Benzo(a)anthracene	ND	25 µg/Kg	
12	Chrysene	ND	25 µg/Kg	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	50 µg/Kg	
14	Benzo(a)pyrene	ND	25 µg/Kg	
15	Indeno(1,2,3-cd)pyrene	ND	25 µg/Kg	
16	Dibenz(a,h)anthracene	ND	25 µg/Kg	
17	Benzo(g,h,i)perylene	ND	25 μg/Kg	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

Sample results were calculated on a wet weight basis. ND = Not Detected



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08-73103-01/02-07/ Carlin Brownfields RRP

Client I.D. Number: B-5

Alpha Analytical Number: CON13110824-28A

Sampled: 11/06/13 15:35

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	93	1.0 μg/L	•
2	2-Methylnaphthalene	120 *	1.0 μg/L	
3	1-Methylnaphthalene	250 *	1.0 μg/ L	
4	Acenaphthylene	1.6	1.0 µg/L	
5	Acenaphthene	30	1.0 µg/L	
6	Fluorene	41	1.0 µg/L	
7	Phenanthrene	93	1.0 μg/L	
8	Anthracene	ND	1.0 μg/L	
9	Fluoranthene	3.2	1.0 μg/L	
10	Pyrene	4.3	1.0 µg/L	
11	Benzo(a)anthracene	ND	1.0 µg/L	
12	Chrysene	ND	1.0 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	2.0 µg/L	
14	Benzo(a)pyrene	ND	1.0 µg/L	
15	Indeno(1,2,3-cd)pyrene	ND	1.0 μg/L	
16	Dibenz(a,h)anthracene	ND	1.0 μg/L	
17	Benzo(g,h,i)perylene	ND	1.0 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to high concentrations of target analytes.

*These compounds slightly exceeded the instrument's calibration range and are estimated values.

ND = Not Detected



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ANALYTICAL REPORT

Kathi Brandmueller

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Attn:

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4840 Mill Street, Suite 5

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08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-32A

Client I.D. Number: B-6

Sampled: 11/06/13 16:35

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	6.0	0.10 μg/L	_
2	2-Methylnaphthalene	4.8	0.10 μg/L	
3	1-Methylnaphthalene	15 *	0.20 μg/L	
4	Acenaphthylene	0.24	0.10 μg/L	
5	Acenaphthene	0.97	0.10 μg/L	
6	Fluorene	0.90	0.10 μg/L	
7	Phenanthrene	1.4	0.10 μg/L	
8	Anthracene	ND	0.10 μg/L	
9	Fluoranthene	ND	0.10 μg/L	
10	Pyrene	ND	0.10 μg/L	
11	Benzo(a)anthracene	ND	0.10 μg/L	
12	Chrysene	ND	0.10 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.20 μg/L	
14	Benzo(a)pyrene	ND	0.10 μg/L	
15	Indeno(1,2,3-cd)pyrene	ND	0.10 μg/L	
16	Dibenz(a,h)anthracene	ND	0.10 μg/L	
17	Benzo(g,h,i)peryiene	ND	0.10 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to high concentrations of target analytes.

*This compound was analyzed separately on 11/15/13 to be within its calibration, while achieving the lowest possible reporting limits for the other compounds.

ND = Not Detected



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Reno, NV 89502

Job:

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-33A

Client I.D. Number: B-15-A

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 13:16

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	0.027	0.020 µg/L	
2	2-Methylnaphthalene	ND	0.020 µg/L	
3	1-Methylnaphthalene	0.022	0.020 μg/L	
4	Acenaphthylene	ND	0.020 μg/L	
5	Acenaphthene	ND	0.020 µg/L	
6	Fluorene	ND	0.020 µg/L	
7	Phenanthrene	ND	0.020 μg/L	
8	Anthracene	ND	0.020 µg/L	
9	Fluoranthene	ND	0.020 μg/L	
10	Pyrene	ND	0.020 μg/L	
11	Benzo(a)anthracene	ND	0.020 μg/L	
12	Chrysene	ND	0.020 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L	
14	Benzo(a)pyrene	ND	0.020 μg/L	
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L	
16	Dibenz(a,h)anthracene	ND	0.020 μg/L	
17	Benzo(g,h,i)perylene	ND	0.020 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Kandg Naulmer

Walter Hinkow

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.

of the second

11/18/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-34A

Client I.D. Number: B-4-A

Attn: Kathi Brandmueller

(775) 284-9752 Phone: Fax:

(775) 856-3513

Sampled: 11/06/13 14:41

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	69	1.0 μg/L	
2	2-Methylnaphthalene	64	1.0 μg/L	
3	1-Methylnaphthalene	180 *	1.0 μg/L	
4	Acenaphthylene	4.4	1.0 μg/L	
5	Acenaphthene	8.9	1.0 μg/L	
6	Fluorene	19	1.0 μg/L	
7	Phenanthrene	39	1.0 μg/L	
8	Anthracene	ND	1.0 μg/L	
9	Fluoranthene	ND	1.0 μg/L	
10	Pyrene	ND	1.0 μg/L	
11	Benzo(a)anthracene	ND	1.0 μg/L	
12	Chrysene	ND	1.0 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	2.0 μg/L	
14	Benzo(a)pyrene	ND	1.0 μg/L	
15	Indeno(1,2,3-cd)pyrene	ND	1.0 μg/L	
16	Dibenz(a,h)anthracene	ND	1.0 μg/L	
17	Benzo(g,h,i)perylene	ND	1.0 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to high concentrations of target analytes.

*These compounds slightly exceeded the instrument's calibration range and are estimated values.

ND = Not Detected

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ANALYTICAL REPORT

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Reno, NV 89502

Attn:

Kathi Brandmueller Phone: (775) 284-9752

Fax:

(775) 856-3513

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-36A

Client I.D. Number: Field Blank

Sampled: 11/06/13 16:45

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	0.020 µg/L
2	2-Methylnaphthalene	ND	0.020 μg/L
3	1-Methylnaphthalene	ND	0.020 μg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	ND	0.020 μg/L
6	Fluorene	ND	0.020 µg/L
7	Phenanthrene	ND	0.020 μg/L
8	Anthracene	ND	0.020 μg/L
9	Fluoranthene	ND	0.020 μg/L
10	Pyrene	ND	0.020 μg/L
11	Benzo(a)anthracene	ND	0.020 μg/L
12	Chrysene	ND	0.020 μg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L
14	Benzo(a)pyrene	ND	0.020 μg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L
16	Dibenz(a,h)anthracene	ND	0.020 μg/L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



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Kathi Brandmueller Phone: (775) 284-9752

Fax:

(775) 856-3513

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-39A

Client I.D. Number: B-4

Received: 11/08/13

Sampled: 11/06/13 14:40

Extracted: 11/08/13 13:11 Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	70	1.0 μg/L	
2	2-Methylnaphthalene	61	1.0 μg/L	
3	1-Methylnaphthalene	180 *	1.0 μg/L	
4	Acenaphthylene	2.3	1.0 μg/L	
5	Acenaphthene	9.2	1.0 μg/L	
6	Fluorene	18	1.0 µg/L	
7	Phenanthrene	21	1.0 µg/L	
8	Anthracene	ND	1.0 μg/L	
9	Fluoranthene	ND	1.0 μg/L	
10) Pyrene	ND	1.0 μg/L	
1	Benzo(a)anthracene	ND	1.0 µg/L	
13	2 Chrysene	ND	1.0 μ g /L	
1;	Benzo(b&k)fluoranthene, isomeric pair	ND	2.0 µg/L	
1	Benzo(a)pyrene	ND	1.0 µg/L	
- 19	5 Indeno(1,2,3-cd)pyrene	ND	1.0 µg/L	
10	Dibenz(a,h)anthracene	ND	1.0 µg/L	
1	7 Benzo(g,h,i)perylene	ND	1.0 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery. Reporting Limits were increased due to high concentrations of target analytes.

*These compounds slightly exceeded the instrument's calibration range and are estimated values.

ND = Not Detected



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Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/ Carlin Brownfields RRP

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID:	B-13@11FT					
Lab ID:	CON13110824-04A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 08:40	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
CCL . ID	P. 4 C. 4 P. P.	TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-2@12FT					
Lab ID:	CON13110824-08A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 09:40	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
Client ID .	D 1@13ET	TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-1@12FT	TRUE (DRA)	VID	10 46	11/00/12	11/00/12
Lab ID :	CON13110824-13A	TPH-E (DRO)	ND ND	10 mg/Kg	11/08/13	11/09/13 11/09/13
Date Sampled	11/06/13 10:29	TPH-E (ORO)	ND ND	10 mg/Kg	11/08/13 11/13/13	11/15/13
Client ID:	B-3@6.5FT	TPH-P (GRO)	ND	I0 mg/Kg	11/13/13	11/13/13
Lab ID :	CON13110824-16A	TPH-E (DRO)	280 L	50 mg/Kg	11/08/13	11/09/13
	11/06/13 11:35	TPH-E (ORO)	750 L	50 mg/Kg	11/08/13	11/09/13
Date Sampled	11/00/13 11.33	TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-15@8FT	iiii (GRo)	ND	10 116 126	11/15/15	
Lab ID :	CON13110824-18A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
	11/06/13 12:40	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
- are samples		TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-15A@8FT	,				
Lab ID :	CON13110824-19A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 12:41	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
_		TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-15@12FT					
Lab ID:	CON13110824-20A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 12:48	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-4@8FT					
Lab ID :	CON13110824-23A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 14:00	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
ar IB	B 10.1	TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-4@12FT				4.4.10.0.14.0	44,004,0
Lab ID :	CON13110824-24A	TPH-E (DRO)	2,000	100 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 14:10	TPH-E (ORO)	170	100 mg/Kg	11/08/13	11/09/13
Client ID:	D & GOOFT	TPH-P (GRO)	3,600	200 mg/Kg	11/13/13	11/15/13
	B-5@8FT	TRUE (PRO)	2.600	50 mm/V m	11/00/12	11/00/13
Lab ID :	CON13110824-26A	TPH-E (DRO)	2,500	50 mg/Kg 50 mg/Kg	11/08/13 11/08/13	11/09/13 11/09/13
Date Sampled	11/06/13 15:15	TPH-E (ORO) TPH-P (GRO)	580 2,000	50 mg/Kg 80 mg/Kg	11/13/13	11/18/13
Client ID:	B-5@12FT	Tiff (GRO)	2,000	oo mgarg	11/13/13	11,10,13
Lab ID:	CON13110824-27A	TPH-E (DRO)	660	100 mg/Kg	11/08/13	11/09/13
	11/06/13 15:22	TPH-E (ORO)	ND	100 mg/Kg	11/08/13	11/09/13
out bumpled	11/00/13 13:44	TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/18/13



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				•		
Client ID:	B-6@4FT					
Lab ID:	CON13110824-29A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 16:05	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-6@11FT					
Lab ID:	CON13110824-31A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/06/13 16:20	TPH-E (ORO)	ND	I0 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/13/13	11/15/13
Client ID:	B-4A@12FT					
Lab ID:	CON13110824-35A	TPH-E (DRO)	8,600	100 mg/Kg	11/08/13	11/11/13
Date Sampled	11/06/13 14:11	TPH-E (ORO)	730	100 mg/Kg	11/08/13	11/11/13
		TPH-P (GRO)	6,500	200 mg/Kg	11/13/13	11/18/13
Client ID:	Field Blank					
Lab ID:	CON13110824-36A	TPH-E (DRO)	ND	0.50 mg/L	11/08/13	11/09/13
Date Sampled	11/06/13 16:45	TPH-E (ORO)	ND	0.50 mg/L	11/08/13	11/09/13
		TPH-P (GRO)	ND	0.50 mg/L	11/12/13	11/12/13

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected



Roger Scholl

Kandy Saulur

Walter Strikm

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11/18/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-05A

Client I.D. Number: B-13

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 09:20

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting			Reporting
	Compound	Concentration	Limit	Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26 Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27 m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28 Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 μ g/ L	29 o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30 1,1,2,2-Tetrachloroeth	nane ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31 1,3-Dichlorobenzene	ND	1.0 μg/L
7	Dichloromethane	ND	2.0 µg/L	32 1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33 1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 μg/L		•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L			
11	Chloroform	ND	1.0 µg/L			
12	1,2-Dichloroethane	ND	1.0 μg/L			
13	1,1,1-Trichloroethane	ND	1.0 µg/L			
14	Carbon tetrachloride	ND	1.0 μg/L			
15	Benzene	ND	1.0 µg/L			
16	1,2-Dichloropropane	ND	1.0 µg/L			
17	Trichloroethene	ND	1.0 µg/L			
18	Bromodichloromethane	. ND	1.0 μg/L			
19	cis-1,3-Dichloropropene	ND	1.0 μ g/ L			
20	trans-1,3-Dichloropropene	ND	1.0 µg/L			
21	1,1,2-Trichloroethane	ND	1.0 µg/L			
22	Toluene	ND	1.0 µg/L			
23	Dibromochloromethane	ND	1.0 µg/L			
24	Tetrachloroethene	ND	1.0 µg/L			
25	Chlorobenzene	ND	1.0 μ g/L			

ND = Not Detected



Roger Scholl

Kandg Sandmer

Walter Atribur

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Report Date



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ANALYTICAL REPORT

Attn:

Kathi Brandmueller

Converse

Job:

4840 Mill Street, Suite 5

Client I.D. Number: B-2

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-10A

Phone: (775) 284-9752 Fax: (775) 856-3513

Sampled: 11/06/13 09:55

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 μ g/ L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 μ g/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 μ g/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 μg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 μg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 μg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			,	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L.				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 μ g/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μ g/L				

ND = Not Detected



Roger Scholl

Kandy Soulner

Walter Findren

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11/18/13
Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-14A

Client I.D. Number: B-1

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 10:40

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 μ g/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 μg/L	.29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 μg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 μg/L	32	1,4-Dichlorobenzene	ND	1.0 μ g/L
8	trans-1,2-Dichloroethene	ND	1.0 μg/L	33	1,2-Dichlorobenzene	ND	1.0 μg/L
9	1,1-Dichloroethane	ND	1.0 μ g/L .			•	
10	cis-1,2-Dichloroethene	ND	1.0 μg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 μg/L				
15	Benzene	ND	1.0 μg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μg/L				

ND = Not Detected



Roger Scholl

Kandg Soulur

Dalter Hirihow

Roger L. Scholl. Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/48/13 Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-16A

Client I.D. Number: B-3@6.5FT

Attn: Kathi Brandmueller Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 11:35

Received: 11/08/13

Extracted: 11/13/13 16:27

Analyzed: 11/15/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
_	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	80 µg/Kg	26	Ethylbenzene	ND	20 µg/Kg
2	Vinyl chloride	ND	20 μg/Kg	27	m,p-Xylene	ND	20 µg/Kg
3	Chloroethane	ND	20 μg/Kg	28	Bromoform	ND ·	20 µg/Kg
4	Bromomethane	ND	80 µg/Kg	29	o-Xylene	ND	20 µg/Kg
5	Trichlorofluoromethane	ND	20 μg/Kg	30	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
6	1,1-Dichloroethene	ND	20 μg/Kg	31	1,3-Dichlorobenzene	ND	20 µg/Kg
7	Dichloromethane	ND	80 µg/Kg	32	1,4-Dichlorobenzene	ND	20 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg	33	1,2-Dichlorobenzene	ND	20 µg/Kg
9	1,1-Dichloroethane	ND	20 µg/Kg			1 1	
10	cis-1,2-Dichloroethene	ND	20 µg/Kg				
11	Chloroform	ND	20 μg/Kg				
12	1,2-Dichloroethane	ND	20 µg/Kg				
13	1,1,1-Trichloroethane	ND	20 µg/Kg				
14	Carbon tetrachloride	ND	20 μg/Kg				
15	Benzene	ND	20 µg/Kg				
16	1,2-Dichloropropane	ND	20 µg/Kg				
17	Trichloroethene	ND	20 µg/Kg				
18	Bromodichloromethane	ND	20 µg/Kg				
19	cis-1,3-Dichloropropene	ND	20 μg/Kg				
20	trans-1,3-Dichloropropene	ND	20 μg/Kg				
21	1,1,2-Trichloroethane	ND	20 μg/Kg				
22	Toluene	ND	20 μg/Kg				
23	Dibromochloromethane	ND	20 µg/Kg				
24	Tetrachloroethene	ND	20 µg/Kg				
25	Chlorobenzene	ND	20 µg/Kg				

Sample results were calculated on a wet weight basis. ND = Not Detected



Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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12/2/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Client I.D. Number: B-15

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-21A

Phone:

Kathi Brandmueller (775) 284-9752

Fax:

(775) 856-3513

Sampled: 11/06/13 13:15

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µ g/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 μ g/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 μg/L	33	1,2-Dichlorobenzene	ND	1.0 μ g/L
9	1,1-Dichloroethane	ND	1.0 μg/L			' '	
10	cis-1,2-Dichloroethene	ND	1.0 μg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 μ g/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 μ g/ L				
25	Chlorobenzene	ND	1.0 μ g/L				

ND = Not Detected



Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Kathi Brandmueller Attn: Phone: (775) 284-9752

Fax: (775) 856-3513

Alpha Analytical Number: CON13110824-24A Client I.D. Number: B-4@12FT

Sampled: 11/06/13 14:10

Received: 11/08/13

Extracted: 11/13/13 16:27

Analyzed: 11/15/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	8,000 µg/Kg	26	Ethylbenzene	ND .	1,000 µg/Kg
2	Vinyl chloride	ND	2,000 µg/Kg	27	m,p-Xylene	ND	1,000 µg/Kg
3	Chloroethane	ND	2,000 µg/Kg	28	Bromoform	ND	2,000 µg/Kg
4	Bromomethane	ND	8,000 µg/Kg	29	o-Xylene	ND	1,000 µg/Kg
5	Trichlorofluoromethane	ND	2,000 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	2,000 µg/Kg
6	1,1-Dichloroethene	ND	2,000 µg/Kg	31	1,3-Dichlorobenzene	ND	2,000 µg/Kg
7	Dichloromethane	ND	8,000 µg/Kg	32	1,4-Dichlorobenzene	ND	2,000 µg/K g
8	trans-1,2-Dichloroethene	ND	2,000 µg/Kg	33	1,2-Dichlorobenzene	ND	2,000 µg/Kg
9	1,1-Dichloroethane	ND	2,000 µg/Kg			' '	
10	cis-1,2-Dichloroethene	ND	2,000 µg/Kg				
11	Chloroform	ND	2,000 µg/Kg				
12	1,2-Dichloroethane	ND	2,000 µg/Kg				
13	1,1,1-Trichloroethane	ND	2,000 µg/Kg				
14	Carbon tetrachloride	ND	2,000 µg/Kg				
15	Benzene	ND	1,000 µg/Kg				
16	1,2-Dichloropropane	ND	2,000 µg/Kg				
17	Trichloroethene	ND	2,000 µg/Kg				
18	Bromodichloromethane	ND	2,000 µg/Kg				
19	cis-1,3-Dichloropropene	ND	2,000 µg/Kg				
20	trans-1,3-Dichloropropene	ND	2,000 µg/Kg				
21	1,1,2-Trichloroethane	ND	2,000 µg/Kg				
22	Toluene	ND	1,000 µg/Kg				
23	Dibromochloromethane	ND	2,000 µg/Kg				
24	Tetrachloroethene	ND	2,000 µg/Kg				•
25	Chlorobenzene	ND	2,000 µg/Kg				

Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.

ND = Not Detected



Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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12/2/13

Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-26A

Client I.D. Number: B-5@8FT

Attn: Kathi Brandmueller

Phone: (775) 284-9752 Fax:

(775) 856-3513

Sampled: 11/06/13 15:15

Received: 11/08/13

Extracted: 11/13/13 16:27

Analyzed: 11/18/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	3,200 µg/Kg	26	Ethylbenzene	ND	400 µg/Kg
2	Vinyl chloride	ND	800 µg/Kg	27	m,p-Xylene	ND	400 μ g/ Kg
3	Chloroethane	ND	800 µg/Kg	28	Bromoform	ND	800 µg/Kg
4	Bromomethane	ND	3,200 µg/Kg	29	o-Xylene	ND	400 µg/Kg
5	Trichlorofluoromethane	ND	800 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	800 µg/Kg
6	1,1-Dichloroethene	ND	800 µg/Kg	31	1,3-Dichlorobenzene	ND	800 μg/Kg
7	Dichloromethane	ND	3,200 µg/Kg	32	1,4-Dichlorobenzene	ND	800 µg/Kg
8	trans-1,2-Dichloroethene	ND	800 µg/Kg	33	1,2-Dichlorobenzene	ND	800 µg/Kg
9	1,1-Dichloroethane	ND	800 µg/Kg			•	
10	cis-1,2-Dichloroethene	ND	800 µg/Kg				
11	Chloroform	ND	800 µg/Kg		•		
12	1,2-Dichloroethane	ND	800 µg/Kg				
13	1,1,1-Trichloroethane	ND	800 µg/Kg				
14	Carbon tetrachloride	ND	800 µg/Kg				
15	Benzene	ND	400 µ g/ Kg				
16	1,2-Dichloropropane	ND	800 µg/Kg				
17	Trichloroethene	ND	800 µg/Kg				•
18	Bromodichloromethane	ND	800 µg/K g				
19	cis-1,3-Dichloropropene	ND	800 µg/Kg				
20	trans-1,3-Dichloropropene	ND	800 μ g/ Kg				
21	1,1,2-Trichloroethane	ND	800 µg/Kg				
22	Toluene	ND	400 μg/Kg				
23	Dibromochloromethane	ND	800 µg/Kg				
24	Tetrachloroethene	ND	800 µg/Kg				
25	Chlorobenzene	ND	800 µg/Kg				

Reporting Limits were increased due to high concentrations of target analytes.

Encore sample was preserved, extracted, and analyzed within holding time, per Regional Interim Policy for Determination of Volatile Organic Compound Concentrations in Soil and Solid Matrices, dated June 23, 1999.

Sample results were calculated on a wet weight basis.

ND = Not Detected



Roger Scholl

Kandy Sauleur

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

11/18/13 Report Date

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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Phone: (775) 284-9752

Attn:

(775) 856-3513

Kathi Brandmueller

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-27A

Client I.D. Number: B-5@12FT

Sampled: 11/06/13 15:22

Received: 11/08/13

Extracted: 11/13/13 16:27 Analyzed: 11/18/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	160 µg/Kg	26	Ethylbenzene	ND	20 µg/Kg
2	Vinyl chloride	ND	40 µg/Kg	27	m,p-Xylene	ND	20 µg/Kg
3	Chloroethane	ND	40 µg/Kg	28	Bromoform	ND	40 µg/Kg
4	Bromomethane	ND	160 µg/Kg	29	o-Xylene	ND	20 µg/Kg
5	Trichlorofluoromethane	ND	40 µg/ Kg	30	1,1,2,2-Tetrachloroethane	ND	40 µg/Kg
6	1,1-Dichloroethene	ND	40 µg/Kg	31	1,3-Dichlorobenzene	ND	40 µg/Kg
7	Dichloromethane	ND	160 µg/Kg	32	1,4-Dichlorobenzene	ND	40 µg/Kg
8	trans-1,2-Dichloroethene	ND	40 µg/Kg	33	1,2-Dichlorobenzene	ND	40 µg/Kg
9	1,1-Dichloroethane	ND	40 μg/ Kg			, ,	
10	cis-1,2-Dichloroethene	ND	40 µg/Kg				
11	Chloroform	ND	40 µg/Kg				
12	1,2-Dichloroethane	ND	40 µg/Kg				
13	1,1,1-Trichloroethane	ND	40 µg/Kg				
14	Carbon tetrachloride	ND	40 µg/ Kg				
15	Benzene	ND	20 µg/Kg				
16	1,2-Dichloropropane	ND	40 µg/Kg				
17	Trichloroethene	ND	40 µg/Kg				
18	Bromodichloromethane	ND	40 µg/Kg				
19	cis-1,3-Dichloropropene	ND	40 µg/Kg				
20	trans-1,3-Dichloropropene	ND	40 µg/Kg				
21	1,1,2-Trichloroethane	ND	40 μg/Kg				
22	Toluene	ND	20 μg/Kg				
23	Dibromochloromethane	ND	40 µg/Kg				
24	Tetrachloroethene	ND	40 µg/Kg				
25	Chlorobenzene	ND	40 µg/Kg				

Reporting Limits were increased due to high concentrations of target analytes.

Encore sample was preserved, extracted, and analyzed within holding time, per Regional Interim Policy for Determination of Volatile Organic Compound Concentrations in Soil and Solid Matrices, dated June 23, 1999.

Sample results were calculated on a wet weight basis.

ND = Not Detected



Roger Scholl

Kandy Soulner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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e/ 11/18/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-28A

Client I.D. Number: B-5

Attn: Kathi Brandmueller Phone: (775) 284-9752

(775) 856-3513 Fax:

Sampled: 11/06/13 15:35

Received: 11/08/13 Extracted: 11/12/13

Analyzed: 11/12/13 Volatile Organics by GC/MS

EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	NÐ	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 μ g/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 μ g/L
9	1,1-Dichloroethane	ND	1.0 µg/L				
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L			•	
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 µg/L				

ND = Not Detected



Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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11/18/13 Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-32A

Client I.D. Number: B-6

Sampled: 11/06/13 16:35

Received: 11/08/13

Extracted: 11/12/13

Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 μg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1,0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 μ g/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L				
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	, ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μg/L				

ND = Not Detected



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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise. Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-33A

Client I.D. Number: B-15-A

Attn: Kathi Brandmueller Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 13:16

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	. ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 μg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 μg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 μg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 μg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 μg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 μg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 μ g/L			•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μg/L				

ND = Not Detected



Roger Scholl

Kandy Saulur

Walter Hirkon

Loger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Office Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/18/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-34A

Client I.D. Number: B-4-A

Attn: Kathi Brandmueller

(775) 284-9752 Phone: Fax:

(775) 856-3513

Sampled: 11/06/13 14:41

Received: 11/08/13 Extracted: 11/12/13

Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
_	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 μg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 μ g/ L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			. ,	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 μg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 μ g/ L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 μg/L				
21	1,1,2-Trichloroethane	ND	1.0 μg/L				
22	Toluene	ND	1.0 μ g/ L				
23	Dibromochloromethane	ND	1.0 μ g/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chiorobenzene	ND	1.0 μg/L				

ND = Not Detected



Roger Scholl

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11/18/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-36A

Client I.D. Number: Field Blank

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/06/13 16:45

Received: 11/08/13 Extracted: 11/12/13

Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 μ g/L
7	Dichloromethane	ND	2.0 μg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			'	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 μ g/ L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μg/L				

ND = Not Detected



Roger Scholl

KandgSouleer

Walter Finden

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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/18/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha Analytical Number: CON13110824-39A

Client I.D. Number: B-4

Attn:

Fax:

Phone:

(775) 284-9752 (775) 856-3513

Kathi Brandmueller

Sampled: 11/06/13 14:40

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 μg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND .	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
. 8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 μ g/L
9	1,1-Dichloroethane	ND	1.0 µg/L			•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 μ g/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 µg/L				

ND = Not Detected



Roger Scholl

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Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CON13110824

Job:

08-73103-01/02-07/ Carlin Brownfields RRP

Alpha's Sample ID	Client's Sample ID	Matrix	pН	
13110824-05A	B-13	Aqueous	2	
13110824-10A	B-2	Aqueous	2	
13110824-14A	B-1	Aqueous	2	
13110824-21A	B-15	Aqueous	2	
13110824-28A	B-5	Aqueous	2	
13110824-32A	B-6	Aqueous	2	
13110824-33A	B-15-A	Aqueous	2	
13110824-34A	B-4-A	Aqueous	2	
13110824-36A	Field Blank	Aqueous	2	
13110824-39A	B-4	Aqueous	2	

11/18/13



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 15-Nov-13	(QC Sı	ımmar	y Report	t				Work Orde 13110824	
Method Blank File ID: 018_ Sample ID: MB-31981	Units : mg/L		Bar Run ID: IC	est Code: EF atch ID: 3198 :P/MS_13111	1 12A		Prep Date:	11	/12/2013 15:16 /12/2013 13:43	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPD	RefVal	%RPD(Limit)	Qual
Chromium (Cr), Dissolved Arsenic (As), Dissolved Selenium (Se), Dissolved Silver (Ag), Dissolved Cadmium (Cd), Dissolved	ND ND ND ND	0.01 0.005 0.005 0.005								
Barium (Ba), Dissolved Mercury (Hg), Dissolved Lead (Pb), Dissolved	ND ND ND ND	0.002 0.005 0.001 0.005								
Laboratory Control Spike		Type L	CS T	est Code: EP	A Met	hod 200.8		•		
File ID: 020_			В	atch ID: 3198	31		Analysis D	ate: 11	/12/2013 15:23	
Sample ID: LCS-31981	Units : mg/L		Run ID: IC	P/MS_13111	I2A		Prep Date:	11	/12/2013 13:43	
Analyte	Result	PQL	SpkVal	SpkRefVal ¹	%REC	LCL(ME)	UCL(ME) RPD	RefVal	%RPD(Limit)	Qual
Chromium (Cr), Dissolved Arsenic (As), Dissolved	0.0513 0.0515	0.01 0.005			103 103	80 80	120 120			
Selenium (Se), Dissolved Silver (Ag), Dissolved	0.0523 0.0533	0.005 0.005			105 107	80 80	120 120			
Cadmium (Cd), Dissolved	0.0518	0.003	_		107	80	120			
Barium (Ba), Dissolved	0.049	0.005	0.05		98	80	120			
Mercury (Hg), Dissolved Lead (Pb), Dissolved	0.000959 0.0467	0.001 0.005	0.001 0.05		96 93	80 80	120 120			
	0.0407			oot Code: ED			120			
Sample Matrix Spike File ID: 022_		Type M		est Code: EP atch ID: 3198		nou 200.0	Analysis D	oto: 11	/12/2013 15:29	
Sample ID: 13110849-05AMS	Units : mg/L			P/MS_13111			Prep Date:		/12/2013 13:23	
Analyte	Result	PQL		_		: LCL/ME)	UCL(ME) RPD			Qual
Chromium (Cr), Dissolved	0.0518	0.01	0.05	0	104	75	125	(C) Va	701 C(Linne)	
Arsenic (As), Dissolved	0.0612	0.005		0.0092	104	75 75	125			
Selenium (Se), Dissolved	0.0581	0.005	0.05	0.0073	102	75	125			
Silver (Ag), Dissolved Cadmium (Cd), Dissolved	0.0533	0.005	0.05	0	107	75 75	125			
Barium (Ba), Dissolved	0.0529 0.127	0.002 0.005	0.05 0.05	0. 0.0752	106 103	75 75	125 125			
Mercury (Hg), Dissolved	0.0008	0.001	0.001	0.0702	80	75	125			
Lead (Pb), Dissolved	0.047	0.005	0.05	0	94	75	125			
Sample Matrix Spike Duplicate		Type M	SD T	est Code: EP	A Met	hod 200.8				
File ID: 023_			В	atch ID: 3198	11		Analysis D	ate: 11	/1 2/2 01 3 15 :32	
Sample ID: 13110849-05AMSD	Units : mg/L			P/MS_13111			Prep Date:		/1 2/2 01 3 13:43	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPD	RefVal	%RPD(Limit)	Qual
Chromium (Cr), Dissolved	0.0557	0.01	0.05	0	111	75		.0518	7.3(20)	
Arsenic (As), Dissolved Selenium (Se), Dissolved	0.0654	0.005		0.0092	112	75 75		0612	6.6(20)	
Silver (Ag), Dissolved	0.0625 0.0564	0.005 0.005	0.05 0.05	0.0073 0	110 113	75 75		.0581 .0533	7.3(20) 5.7(20)	
Cadmium (Cd), Dissolved	0.0565	0.003		0	113	75 75		.0529	6.6(20)	
Barium (Ba), Dissolved	0.131	0.005	0.05	0.0752	111	75	125 0	1265	3.4(20)	
Mercury (Hg), Dissolved	0.0008	0.001	0.001	0	80	75		.0008	0.0(20)	
Lead (Pb), Dissolved	0.0504	0.005	0.05	0	101	75	125 (.047	7.0(20)	



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Date: 15-Nov-13	QC Summary Report	Work Order: 13110824
Comments:		



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 15-Nov-13	(QC Su	mmar	y Report	•				Work Orde 13110824	
Method Blank File ID: 014_		Type: ME	Ва	est Code: EP	5	hod SW60	Analys	sis Date:	11/13/2013 18:00	
Sample ID: MB-31995 Analyte	Units : mg/l Result	(g I PQL		P /MS_13111 SpkRefVal		LCL(ME)	Prep D UCL(ME) I		11/13/2013 13:51 (al %RPD(Limit)	Qual
Chromium (Cr)	ND	1					()			
Arsenic (As)	ND	1								
Selenium (Se) Silver (Aa)	ND ND	2								
Cadmium (Cd)	ND	i								
Barium (Ba)	ND	1								
Mercury (Hg)	ND	0.2								
Lead (Pb)	ND	1						•		
Laboratory Control Spike		Type: LC		est Code: EP		hod SW60				
File ID: 016_	1.1-14			atch ID: 3199			-		11/13/2013 18:06	
Sample ID: LCS-31995 Analyte	Units : mg/l	_		P/MS_13111		LCLAMEN	Prep D		11/13/2013 13:51 (al %RPD(Limit)	Qual
Chromium (Cr)	Result	PQL		Spkreivai				Krokery	ai /orr D(Lillin)	— Quai
Arsenic (As)	23.4 23.3	1	25 25		94 93	80 80	120 120			
Selenium (Se)	24.1	2	25		96	80	120		v	
Silver (Ag)	24	1	25		96	80	120			
Cadmium (Cd)	23.2	1	25		93	80	120			
Barium (Ba)	223	1	250	•	89	80	120			
Mercury (Hg) Lead (Pb)	0.552 21.8	0.2	0.5 25		110 87	80 80	120 120			
Sample Matrix Spike	21.0	Type: M:		est Code: EP				204		
File ID: 018_		. 3 po. m.		atch ID: 3199					11/13/2013 18:24	
Sample ID: 13110824-04AMS	Units : mg/	Kg i		P/MS_13111			Prep D	Date:	11/13/2013 13:51	
Analyte	Result	PQL		_		LCL(ME)	UCL(ME)	RPDRefv	/al %RPD(Limit)	Qual
Chromium (Cr)	38	1	25	15.89	88	75	125			
Arsenic (As)	30	1	25	18.59	46	75	125			M2
Selenium (Se)	28.2	2	25	5.641	90	75	125			
Silver (Ag)	25.4	1	25	0	102	75 75	125 125			
Cadmium (Cd) Barium (Ba)	25.2 384	1	25 250	0 110.7	101 109	75 75	125			
Mercury (Hg)	0.487	0.2	0.5	0	97	75	125			
Lead (Pb)	26.6	1	25	10.86	63	75	125			M2
Sample Matrix Spike Duplicate		Туре: М	SD T	est Code: EP	A Met	hod SW60	20 / SW60	20A		
File ID: 019_			В	atch ID: 3199	5		Analys	sis Date:	11/13/2013 18:27	
Sample ID: 13110824-04AMSD	Units : mg/	Kg		P/MS_13111			Prep [11/13/2013 13:51	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef	/al %RPD(Limit)	Qual
Chromium (Cr)	34.4	1	25	15.89	74	75	125	37.96		M2
Arsenic (As)	35.7	1	25	18.59	68	75	125	30.01	17.3(20)	M2
Selenium (Se)	27.1	2	25	5.641	86	75	125	28.16		
Silver (Ag)	26.5	1	25	0	106	75 75	125	25.38		
Cadmium (Cd)	25.7	1	25	110.7	103	75 75	125 125	25.25 384.1		
Barium (Ba) Mercury (Hg)	406 0.423	1 0.2	250 0.5	110.7 0	118 85	75 75	125	0.487		
Lead (Pb)	28.6	1	25	10.86	71	75	125	26.61		M2



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Date: 15-Nov-13 QC Summary Report Work Order: 13110824

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date: 18-Nov-13		C Sı	ımmar	y Report			Work Ordo 13110824	
Method Blank		Type: M	BLK T	est Code: EPA Me	thod SW8	270C		
File ID: 13111514.D			Ва	atch ID: 31982		Analysis Date	: 11/15/2013 20:05	
Sample ID: MBLK-31982	Units : µg/Kg	1	Run ID: MS	SD_16_131112A		Prep Date:	11/12/2013 15:29	
Analyte	Result	PQL			C LCL(ME)	•	efVal %RPD(Limit)	Qual
Naphthalene	ND	25				•		
2-Methylnaphthalene	ND	25						
1-Methylnaphthalene	ND	25						
Acenaphthylene	ND	25						
Acenaphthene	ND	25						
Fluorene	ND	25						
Phenanthrene	ND	25						
Anthracene	ND	25						
Fluoranthene	ND	25						
Pyrene	ND	25						
Benzo(a)anthracene	ND	25						
Chrysene	ND	25						
Benzo(b&k)fluoranthene, isomeric pair	ND	50						
Benzo(a)pyrene	ND	25						
Indeno(1,2,3-cd)pyrene	ND	25						
Dibenz(a,h)anthracene	ND	25						
Benzo(g,h,i)perylene	ND	25						
Surr: 2-Fluorobiphenyl	341		312.5	109	47	137		
Surr: 4-Terphenyl-d14	261		312.5	83	27	141		
Laboratory Control Spike		Type: L		est Code: EPA Me	thod SW8			
File ID: 13111515.D			Ba	atch ID: 31982		Analysis Date	e: 11/15/2013 20:30	
Sample ID: LCS-31982	Units : μ g/K ç	,		SD_16_131112A		Prep Date:	11/12/2013 15:29	
Analyte	Result	PQL	SpkVal	SpkRefVal %RE0	C LCL(ME)	UCL(ME) RPDRe	efVal %RPD(Limit)	Qual
Acenaphthene	253	25		81	42	138		
Pyrene	245	25		79	29	143		
Surr: 2-Fluorobiphenyl	345		312.5	110	47	137		
Surr: 4-Terphenyl-d14	266		312.5	85	27	141		
Laboratory Control Spike Duplicate		Type: Le	CSD T	est Code: EPA Me	thod SW8	270C		
File ID: 13111516.D			В	atch ID: 31982		Analysis Date	e: 11/15/2013 20:55	
Sample ID: LCSD-31982	Units : μg/Κο	,	Run ID: M	SD_16_131112A		Prep Date:	11/12/2013 15:29	
Analyte	Result	PQL	SpkVal	SpkRefVal %REG	C LCL(ME)	UCL(ME) RPDRe	efVal %RPD(Limit)	Qual
Acenaphthene	253	25		81	42	138 252		
Pyrene	202	25		65	29	143 245	5.5 19.2(49)	
Surr: 2-Fluorobiphenyl	333		312.5	107	47	137		
Surr: 4-Terphenyl-d14	230		312.5	74	27	141		

Comments:



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Date: 18-Nov-13	(QC S	ummar	y Repor	t				Work Orde 13110824	
Method Blank		Type: N		est Code: EF		hod 625/S				
File ID: 13111305.D				atch ID: 3195			-		11/13/2013 17:51	
Sample ID: MBLK-31959	Units : µg/L		Run ID: M	SD_16_1311	A80		Prep	Date:	11/08/2013 13:11	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Naphthalene	ND	0.02							• •	
2-Methylnaphthalene	ND	0.02								
1-Methylnaphthalene	ND	0.02								
Acenaphthylene	ND	0.02								
Acenaphthene	ND	0.02	<u> </u>							
Fluorene	ND	0.02	!							
Phenanthrene	ND	0.02								
Anthracene	ND	0.02								
Fluoranthene	ND	0.02								
Pyrene	ND	0.02								
Benzo(a)anthracene	ND	0.02								
Chrysene	ND	0.02								
Benzo(b&k)fluoranthene, isomeric pair	ND	0.04								
Benzo(a)pyrene	ND	0.02								
Indeno(1,2,3-cd)pyrene	ND	0.02								
Dibenz(a,h)anthracene	ND	0.02								
Benzo(g,h,i)perylene	ND	0.02								
Surr: 2-Fluorobiphenyl	0.181		0.25		73	12	143			
Surr: 4-Terphenyl-d14	0.202		0.25		81	30	159			
Laboratory Control Spike		Type: L	CS T	est Code: EF	'A Met	hod 625/S	W8270C			
File ID: 13111505 .D			В	atch ID: 3195	9		Analy	/sis Date:	11/15/2013 16:12	
Sample ID: LCS-31959	Units : µg/L		Run ID: M	SD_16_1311	08A		Prep	Date:	11/08/2013 13:11	
Analyte	Result	PQL				LCL(ME)			/al %RPD(Limit)	Qual
Acenaphthene	0.142	0.02	0.25		57	32	130			
Pyrene	0.131	0.02			52	33	130			
Surr: 2-Fluorobiphenyl	0.211	0.02	0.25		85	12	143			
Surr: 4-Terphenyl-d14	0.191		0.25		76	30	159			
Sample Matrix Spike		Type: N	is T	est Code: EF	A Met	hod 625/S	W8270C			
File ID: 13111507.D		-	В	atch ID: 3195	9		Analy	sis Date:	11/15/2013 17:04	
Sample ID: 13110722-02AMS	Units : µg/L		Run ID: M	SD_16_1311	A80		Prep	Date:	11/08/2013 13:11	
Analyte	Result	PQL				LCL(ME)	-		/al %RPD(Limit)	Qual
Acenaphthene	0.32	0.04	0.5	0	64	8	130			
Pyrene	0.338	0.04		ő	68	7	147			
Surr: 2-Fluorobiphenyl	0.384		0.5		7 7	12	143			
Surr: 4-Terphenyl-d14	0.459		0.5		92	30	159			
Sample Matrix Spike Duplicate		Type: N	ISD T	est Code: EF	A Mot	hod 625/9	W8270€			_
File ID: 13111508.D		турс. п		est Code. Lr atch ID: 3195		.1100 02313		sis Date:	11/15/2013 17:30	
Sample ID: 13110722-02AMSD	l loite :			= =				Date:	11/08/2013 13:11	
•	Units : µg/L	501		SD_16_1311			•			0
Analyte	Result	PQL	******	SpkRefVal	%KEC				/al %RPD(Limit)	Quai
Acenaphthene	0.296	0.04		0	0	8	130	0.320		
Pyrene	0.271	0.04		0	0	7	147	0.337	5 21.9(40)	
Surr: 2-Fluorobiphenyl	0.343		0.5		69	12	143			
Surr: 4-Terphenyl-d14	0.364		0.5		73	30	159			
Comments:					-					

Comments:



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Date: 02-Dec-13	Ç	(C Su	ımmar	y Report					Work Orde 13110824	
Method Blank		Туре М	BLK Te	est Code: EPA	Method	SW82	70C			
File ID: 13112508.D			Ва	itch ID: 32039			Analysi	s Date:	11/25/2013 17:17	
Sample ID: MBLK-32039	Units : µg/Kg	1	Run ID: MS	3D_16_131120	A		Prep Da	ate:	11/20/2013 11:18	
Analyte	Result	PQL				L(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
Naphthalene	ND	25						•		
2-Methylnaphthalene	ND	25								
1-Methylnaphthalene	ND	25								
Acenaphthylene	ND	25								
Acenaphthene	ND	25								
Fluorene	ND	25								
Phenanthrene	ND	25								
Anthracene	ND	25								
Fluoranthene	ND	25								
Pyrene	ND	25								
Benzo(a)anthracene	ND	25								
Chrysene	ND	25			*					
Benzo(b&k)fluoranthene, isomeric pair	ND	50								
Benzo(a)pyrene	ND	25								
Indeno(1,2,3-cd)pyrene	ND	25								
Dibenz(a,h)anthracene	ND	25								
Benzo(g,h,i)perylene	ND 070	25	040.5	_		47	407			
Surr: 2-Fluorobiphenyl Surr: 4-Terphenyl-d14	272		312.5			47	137			
	234		312.5	· · · · · · · · · · · · · · · · · · ·	75	27	141			
Laboratory Control Spike		Type Lo		est Code: EPA	Method	SW82				
File ID: 13112509.D				atch ID: 32039			-		11/25/2013 17:42	
Sample ID: LCS-32039	Units : μg/Κε			SD_16_131120			Prep D		11/20/2013 11:18	
Analyte	Result	PQL	SpkVal	SpkRefVal %F			UCL(ME) F	RPDRef\	Val %RPD(Limit)	Qual
Acenaphthene	182	25	312.5			42	138			
Pyrene	217	25	312.5	-		29	143			
Surr: 2-Fluorobiphenyl	350		312.5	-	12	47	137			
Surr: 4-Terphenyl-d14	256		312.5	8	32	27	141			
Laboratory Control Spike Duplicate		Type Lo	CSD Te	est Code: EPA	Method	SW82	70C			
File ID: 13112510.D			Ва	atch ID: 32039			Analysi	is Date:	11/25/2013 18:08	
Sample ID: LCSD-32039	Units : μg/Κς	,	Run ID: M	SD_16_131120	A		Prep D	ate:	11/20/2013 11:18	
Analyte	Result	PQL	SpkVal	SpkRefVal %F	REC LC	L(ME)	UCL(ME) F	RPDRef	Val %RPD(Limit)	Qual
Acenaphthene	174	25	312.5			42	138	182.4		
Pyrene	176	25	312.5			29	143	216.9	9 20.8(49)	
Surr: 2-Fluorobiphenyl	297		312.5		95	47	137			
Surr: 4-Terphenyl-d14	228		312.5	7	73	27	141			

Comments:



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Date: 18-Nov-13			QC Sı	ımmar	y Report	,				Work Orde 13110824	
Method Blan File ID: 2A1109			Type: M		est Code: EP atch ID: 3196		hod SW80			11/09/2013 13:38	
Sample ID:	MBLK-31960	Units : mg/h	(g		D_2_131108			Prep Da	-	11/08/2013 15:08	
Analyte		Result	PQL	SpkVal	SpkRefVal ^c	%REC	LCL(ME)	UCL(ME) R	PDRefVa	al %RPD(Limit)	Qual
TPH-E (DRO) TPH-E (ORO)		ND ND	10 10			400		400			
Surr: Nonane	······································	7.67		6		128	65	160			
Laboratory C	Control Spike		Type: L	CS T	est Code: EP	A Met	hod SW80	15B/C Ext			
File ID: 2A1109	1306.D			В	atch ID: 3196	0		Analysis	Date: 1	11/09/2013 14:03	
Sample ID:	LCS-31960	Units : mg/l	(g	Run ID: FI	D_2_131108	В		Prep Da	ite: '	11/08/2013 15:08	
Analyte		Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) R	PDRefVa	al %RPD(Limit)	Qual
TPH-E (DRO)		92.1	5	100		92	70	130			
Surr: Nonane		7.64		6		127	65	160			
Sample Matr	ix Spike		Type: N	IS T	est Code: EP	A Met	hod SW80	15B/C Ext			
File ID: 2A1109	1316.D			В	atch ID: 3196	0		Analysis	s Date:	11/09/2013 18:20	
Sample ID:	13110824-31AMS	Units : mg/l	(g	Run ID: FI	D_2_131108	В		Prep Da	ite:	11/08/2013 15:08	
Analyte		Result	PQL				LCL(ME)	UCL(ME) R	PDRefVa	al %RPD(Limit)	Qual
TPH-E (DRO)		103	5		0	103	46	150			
Surr: Nonane		7.33	·	6		122	65	160			
Sample Matr	ix Spike Duplicate		Type: N	ISD T	est Code: EP	A Met	hod SW80	15B/C Ext			
File ID: 2A1109					atch ID: 3196				Date:	11/09/2013 18:46	
Sample ID:	13110824-31AMSD	Units : mg/l	(a	Run ID: Fi	D 2 131108	В		Prep Da	ite:	11/08/2013 15:08	
Analyte		Result	PQL				LCL(ME)	•		al_%RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	· · · <u>· · · · · · · · · · · · · · · · </u>	96.7 7.32	5		0	97 122	46 65	150 160	103	6.3(42)	

Comments:



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Date: 18-Nov-13	QC Summary Report	Work Order: 13110824
Method Blank File ID: 2A11071365.D Sample ID: MBLK-31961	Type: MBLK Test Code: EPA Method SW8015B/C Ext Batch ID: 31961 Analysis Date: Units: mg/L Run ID: FID 2 131108A Prep Date:	11/08/2013 17:31 11/08/2013 16:11
Analyte	Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRef	
TPH-E (DRO) TPH-E (ORO) Surr: Nonane	ND 0.5 ND 0.5 0.21 0.15 140 53 145	
Laboratory Control Spike File ID: 2A11071366.D	•	11/08/2013 17:56 11/08/2013 16:11
Sample ID: LCS-31961 Analyte	Units: mg/L Run ID: FID_2_131108A Prep Date: Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRef	
TPH-E (DRO) Surr: Nonane	2.23 0.05 2.5 89 70 130 0.174 0.15 116 53 145	
Sample Matrix Spike File ID: 2A11071370.D	Type: MS Test Code: EPA Method SW8015B/C Ext Batch ID: 31961 Analysis Date:	11/08/2013 19:39
Sample ID: 13110605-02AMS Analyte	Units: mg/L Run ID: FID_2_131108A Prep Date: Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRef	11/08/2013 16:11 Val %RPD(Limit) Qual
TPH-E (DRO) Surr: Nonane	2.38 0.05 2.5 0 95 51 151 0.154 0.15 103 53 145	
Sample Matrix Spike Duplicate File ID: 2A11071371.D	Type: MSD Test Code: EPA Method SW8015B/C Ext Batch ID: 31961 Analysis Date:	: 11/08/2013 20:04
Sample ID: 13110605-02AMSD Analyte	Units: mg/L Run ID: FID_2_131108A Prep Date: Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRei	11/08/2013 16:11 Wal %RPD(Limit) Qual
TPH-E (DRO) Surr: Nonane	2.33 0.05 2.5 0 93 51 151 2.36 0.167 0.15 111 53 145	

Comments:



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Date: 18-Nov-13	QC Sı	ımmar	y Report				Work Orde 13110824	
Method Blank	Туре: М	BLK T	est Code: EP	A Meth	od SWB0	15B/C / SWB260E	J	
File ID: 13111205.D		Ba	atch ID: MS1	5W1112	2B	Analysis Date	: 11/12/2013 13:00	
Sample ID: MBLK MS15W1112B Units : i	mg/L	Run ID: MS	SD_15_1311 ⁴	12A		Prep Date:	11/12/2013 13:00	
Analyte Resu	lt PQL	SpkVal	SpkRefVal %	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO) ND	0.5							
Surr: 1,2-Dichloroethane-d4 0.010		0.01		104	70	130		
Surr: Toluene-d8 0.010	5	0.01		105	70	130		
Surr: 4-Bromofluorobenzene 0,010	5	0.01		105	70	130		
Laboratory Control Spike	Type: Lo	CS T	est Code: EP.	A Meth	od SW80	15B/C / SW8260E)	
File ID: 13111203.D		В	atch ID: MS1	5W111:	2B	Analysis Date	: 11/12/2013 12:11	
Sample ID: GLCS MS15W1112B Units:	mg/L	Run ID: M	SD_15_1311 ⁴	12A		Prep Date:	11/12/2013 12:11	
Analyte Resu	lt PQL	SpkVal	SpkRefVal 9	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO) 0.45	6 0.05	0.4		114	70	130		
Surr: 1,2-Dichloroethane-d4 0.010	2	0.01		102	70	130		
Surr: Toluene-d8 0.0099	_	0.01		99	70	130		
Surr: 4-Bromofluorobenzene 0.010	2	0.01		102	70	130	· · · · · · · · · · · · · · · · · · ·	
Sample Matrix Spike	Type: M	S T	est Code: EP.	A Meth	od SW80	15B/C / SW8260E		
File ID: 13111228.D		В	atch ID: MS1	5 W 111	2B	Analysis Date	: 11/12/2013 21:20	
Sample ID: 13111173-02AGS Units :	m g/L	Run ID: M	SD_15_1311 ⁻	12 A		Prep Date:	11/12/2013 21:20	
Analyte Resu	it PQL	SpkVal	SpkRefVal 5	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO) 1.9	6 0.25	2	0	98	54	143		
Surr: 1,2-Dichloroethane-d4 0.049	3	0.05		99	70	130		
Surr: Toluene-d8 0.049		0.05		99	70	130		
Surr: 4-Bromofluorobenzene 0.05	2	0.05		104	70	130		
Sample Matrix Spike Duplicate	Type: M	SD T	est Code: EP	A Meth	od SW80	15B/C / SW8260E	3	
File ID: 13111229.D		В	atch ID: MS1	5W111:	2B	Analysis Date	: 11/12/2013 21:42	
Sample ID: 13111173-02AGSD Units:	mg/L	Run ID: M	SD_15_1311	12A		Prep Date:	11/12/2013 21:42	
Analyte Resu	ilt PQL	SpkVal	SpkRefVal 9	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO) 2.1	4 0.25	2	0	107	54	143 1.9	6 8.6(23)	
Surr: 1,2-Dichloroethane-d4 0.049	7	0.05		99	70	130		·
Surr: Toluene-d8 0.049		0.05		99.7	70	130		
Surr: 4-Bromofluorobenzene 0.052	1	0.05		104	70	130		

Comments:



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Date: 18-Nov-13	(QC Su	ımmary	Report			Work Orde 13110824	
Method Blank		Type: M	BLK Te	st Code: EPA Meti	hod SW82	260B		
File ID: 13111205.D			Ва	tch ID: MS15W111	2A	Analysis Da	ate: 11/12/2013 13:00	
Sample ID: MBLK MS15W1112A	Units : µg/L		Run ID: MS	D_15_131112A		Prep Date:	11/12/2013 13:00	
Analyte	Result	PQL			LCL(ME)		RefVal %RPD(Limit)	Qua
Chloromethane	ND	2					<u> </u>	_
Vinyl chloride	ND	1						
Chloroethane	ND	1						
Bromomethane	ND	2						
Trichlorofluoromethane	ND	1						
1,1-Dichloroethene	ND	1						
Dichloromethane	ND	2						
trans-1,2-Dichloroethene	ND	1						
1,1-Dichloroethane	ИD	1						
cis-1,2-Dichloroethene	ND	1						
Chloroform	ND	1						
1,2-Dichloroethane	ND	1						
1,1,1-Trichloroethane	ND	1	*					
Carbon tetrachloride	ND	1						
Benzene	ND	1						
1,2-Dichloropropane	ND	1						
Trichloroethene	ND	1						
Bromodichloromethane	ND	1						
cis-1,3-Dichloropropene	ND	1						
trans-1,3-Dichloropropene	ND	1						
1,1,2-Trichloroethane	ND	1						
Toluene	ND	1						
Dibromochloromethane	ND	1						
Tetrachioroethene	ND	1						
Chlorobenzene	ND	1						
Ethylbenzene	ND	1						
m,p-Xylene	ND	1						
Bromoform	ND	1						
o-Xylene	ND]						
1,1,2,2-Tetrachloroethane	ND	1						
1,3-Dichlorobenzene	ND ND	1						
1,4-Dichlorobenzene 1,2-Dichlorobenzene	ND	1						
Surr: 1.2-Dichloroethane-d4	10.4	ı	10	104	70	130		
Surr: Toluene-d8	10.5		10	105	70	130		
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130		
	10.0	T					_ 	
Laboratory Control Spike		Type: Le		est Code: EPA Met			ate: 11/12/2013 11:49	,
File ID: 13111202.D	11-14 11			itch ID: MS15W111	IZA	Prep Date:		
Sample ID: LCS MS15W1112A	Units : µg/L			SD_15_131112A	L OL ME	•		
Analyte	Result	PQL					RefVal %RPD(Limit)	Qua
1,1-Dichloroethene	11.2	1		112	80	120		
Benzene Triablement and	10.9	0.5		109	70	130		
Trichloroethene	10.4	1	10	104	68 80	138		
Toluene	9.9	0.5		99	80	120		
Chlorobenzene	10.1	1		101	70 80	130		
Ethylbenzene	10.6	0.5 0.5		106 108	80 65	120 139		
m n Vulene		ל וו		108	00	139		
m,p-Xylene	10.8				70	130		
o-Xylene	11.1	0.5	10	111	70 70	130 130		
					70 70 70	130 130 130		



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 18-Nov-13	()C Su	mmar	y Rep or	t				Work Orde 13110824	
Sample Matrix Spike File ID: 13111226.D	11.2.	Type: MS	Ва	est Code: EF	5W111		Analysi		11/12/2013 20:37 11/12/2013 20:37	_
Sample ID: 13110849-12AMS Analyte	Units : µg/L Result	PQL		SD_15_1311 SpkReft/al		LCL(ME)	Prep Da		al %RPD(Limit)	Qual
1.1-Dichloroethene	44.9	2.5	50	0	90	62	133			
Benzene	44.9 49	1.3	50 50	0	98	67	134			
Trichloroethene	46.2	2.5	50	0	92	68	138			
Toluene	46.2	1.3	50	0	92	38	130			
Chlorobenzene	46.2	2.5	50	0	92	70	130			
Ethylbenzene	47	1.3	50	ŏ	94	70	130			
m,p-Xylene	49	1.3	50	ŏ	98	65	139			
o-Xylene	51.1	1.3	50	Ō	102	69	130			
Surr: 1.2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	52.3		50		105	70	130			
Sample Matrix Spike Duplicate		Type: MS	SD T	est Code: El	PA Met	hod SW82				
File ID: 13111227.D			В	atch ID: MS1	I 5W11 1	I2A	Analysi	s Date:	11/12/2013 20:59	
Sample ID: 13110849-12AMSD	Units : µg/L	F	Run ID: M	SD_15_131 ⁴	112A		Prep D	ate:	11/12/2013 20:59	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRefV	/al %RPD(Limit)	Qual
1,1-Dichloroethene	50.4	2.5	50	0	101	62	133	44.89	11.6(35)	
Benzene	54.2	1.3	50	0	108	67	134	49.04		
Trichloroethene	52.4	2.5	50	0	105	68	138	46.15	, ,	
Toluene	52.5	1.3	50	0	105	38	130	46.16	• •	
Chlorobenzene	51.9	2.5	50	0	104	70	130	46.22	, ,	
Ethylbenzene	52.9	1.3	50	0	106	70	130	46.96		
m,p-Xylene	54.6	1.3	50	0	109	65	139	48.96		
o-Xylene	56.3	1.3	50	0	113	69	130	51.11	9.7(20)	
Surr: 1,2-Dichloroethane-d4	54		50		108	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	51.5		50		103	70	130			

Comments:



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Date: 02-Dec-13		QC St	ımmary	y Report			Work Orde 13110824	
Method Blank		Туре М	BLK Te	est Code: EPA Meti	od SW8	260B		
File ID: 13112036.D				tch ID: MS08S1999	A	Analysis Date:	11/21/2013 02:06	
Sample ID: MBLK MS08S1999A	Units : µg/Kg	7		SD_08_131120A		Prep Date:	11/21/2013 02:06	
Analyte	Result	PQL			LCL(ME)	UCL(ME) RPDRef	· ·	Qua
Chloromethane	ND	80		opinioral miles		, 002(2) 5.10.		
Vinyl chloride	ND	20						
Chloroethane	ND	20						
Bromomethane	ND	80						
Trichlorofluoromethane	ND	20						
1,1-Dichloroethene	ND	20						
Dichloromethane	ND	80						
trans-1,2-Dichloroethene	ND	20						
1,1-Dichloroethane	ND	20						
cis-1,2-Dichloroethene	ND	20						
Chloroform	ND	20						
1,2-Dichloroethane	ND	20						
1,1,1-Trichloroethane	ND	20						
Carbon tetrachloride	ND	20						
Benzene	ND	20						
1,2-Dichloropropane	ND	20						
Trichloroethene	ND	20						
Bromodichloromethane	ND	20						
cis-1,3-Dichloropropene	ND	20						
trans-1,3-Dichloropropene	ND	20						
1,1,2-Trichloroethane	ND	20						
Toluene	ND	20						
Dibromochloromethane	ND	20						
Tetrachioroethene	ND	20						
Chlorobenzene Ethylbenzene	ND	20						
m.p-Xylene	ND	20						
Bromoform	ND ND	20						
o-Xylene	ND ND	20						
1,1,2,2-Tetrachloroethane	ND ND	20						
1,3-Dichlorobenzene	ND ND	20 20						
1,4-Dichlorobenzene	ND ND	20						
1,2-Dichlorobenzene	ND	20						
Surr: 1,2-Dichloroethane-d4	174	20	200	87	70	130		
Surr: Toluene-d8	246		200	123	70	130		
Surr: 4-Bromofluorobenzene	192		200	96	70	130		
Laboratory Control Spike	···	Type L	CS Te	est Code: EPA Meth	od SW8	260B	· · · · · · · · · · · · · · · · · · ·	
File ID: 13112038.D		7,50		itch ID: MS08S1999			11/21/2013 02:56	
Sample ID: LCS MS08S1999A	Units : µg/K	3		SD_08_131120A		Prep Date:	11/21/2013 02:56	
Analyte	Result	PQL			LCL(ME)	UCL(ME) RPDRef		Qua
1,1-Dichloroethene	427	20		107	10	131	7,011	
Benzene	405	10		107	70	137		
Trichloroethene	450	20		113	70	149		
Toluene	418	10		104	70	139		
Chlorobenzene	409	20		102	70	137		
Ethylbenzene	400	10		99.9	70	137		
m,p-Xylene	394	. 10		98	70	145		
o-Xylene	368	10		92	70	145		
		.0						
Surr: 1,2-Dichloroethane-d4	356		4()()	89	70	130		
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	356 426		400 400	89 107	70 70	130 130		



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Date: 02-Dec-13	(QC Su	mmar	y Repor	t				Work Orde 13110824	
Sample Matrix Spike File ID: 13112039.D Sample ID: 13110848-02AMS	l laita e coelle	Type MS	Ва	est Code: El	85199				1/21/2013 03:21 1/21/2013 03:21	
Analyte	Units : µg/K _f Result	PQL		SD_08_131 [,] SokRefVal		LCL(ME)	-		%RPD(Limit)	Qual
1.1-Dichloroethene	401	20	400	0	100	10	131			
Benzene	379	10	400	0	95	52	151			
Trichloroethene	421	20	400	0	105	48	165			
Toluene	399	10	400	ŏ	99.9	47	154			
Chlorobenzene	389	20	400	ŏ	97	50	151			
Ethylbenzene	377	10	400	ő	94	52	154			
m,p-Xylene	369	10	400	ō	92	51	162			
o-Xylene	356	10	400	0	89	52	162			
Surr: 1,2-Dichloroethane-d4	350		400		88	70	130			
Surr: Toluene-d8	419		400		105	70	130			
Surr: 4-Bromofluorobenzene	404		400		101	70	130			
Sample Matrix Spike Duplicate		Type MS	SD To	est Code: El	PA Met	hod SW82				
File ID: 13112040.D			Ва	atch ID: MS	J8S199	9A	Analy	sis Date: 1	1/21/2013 03:47	
Sample ID: 13110848-02AMSD	Units : μg/K	g f	Run ID: M	SD_08_131	120A		Prep	Date: 1	1/21/2013 03:47	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVa	l %RPD(Limit)	Qual
1,1-Dichloroethene	409	20	400	0	102	10	131	400.9	2.0(40)	
Benzene	380	10	400	0	95	52	151	378.8	0.4(30)	
Trichloroethene	403	20	400	0	101	48	165	421.4	4.5(29)	
Toluene	398	10	400	0	99.6	47	154	399.5	0.3(28)	
Chlorobenzene	390	20	400	0	97	50	151	389.3	0.1(40)	
Ethylbenzene	379	10	400	0	95	52	154	377.2	0.5(37)	
m,p-Xylene	370	10	400	0	92	51	162	369.3	0.2(34)	
o-Xylene	355	10	400	0	89	52	162	355.8	0.3(40)	
Surr: 1,2-Dichloroethane-d4	352		400		88	70	130			
Surr: Toluene-d8	423		400		106	70	130			
Surr: 4-Bromofluorobenzene	411		400		103	70	130			

Comments:

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x kbrandmueller@converseconsultants EDD Required: No EMall Address

NV AMENDED 1 of 10

WorkOrder: CONR13110824

Report Due By: 5:00 PM On: 18-Nov-13 Amendment due 11-29-13

Sampled by: Frank M. Reynolds III, Kathi Brand

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP Cooler Temp Samples Received 08-Nov-13 Date Printed 19-Nov-13

Alpha CON13110824-01A B-14@5FT Sample ID QC Level: S3 CON13110824-06A B-2@4FT CON13110824-03A B-13@8FT CON13110824-02A CON13110824-08A CON13110824-07A B-2@8FT CON13110824-05A CON13110824-04A B-13@11FT B-13@4F1 ₽-13 B-2@12F Sample ID Client Final Rpt, MBLK, LCS, MS/MSD With Surrogates 8 SO S S AQ 11/06/13 09:20 SO 11/06/13 08:40 SO 11/06/13 08:35 ဗ Matrix Date 11/06/13 08:30 11/06/13 08:05 11/06/13 09:30 11/06/13 09:40 11/06/13 Collection No. of Bottles Alpha ω ω ω ω Sub 0 0 0 0 TAT თ o o o တ HOLD Hold Hold Hold As, Ba, Cd, Cr, Pb, Hg, Ag, Sc METALS_D As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se METALS_S PNA_SIM_ PNA_SIM_ Requested Tests XIS TPH/E S TPH/E N TPH/E_N TPH/E_W TPH/P_S GAS-N GAS-N Limited sample volume.
Analyze for SIM and Metals Encores labeled B-14@4FT it enough volume, per Kathi 1-tube, 2-25 gram Encores. 1-tube, 2-25 gram Encores matched up per phone call 1-tube, 2-25 gram Encores Sample Remarks with Kathi.

Comments:

Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi.

Logged in by:	
K Muney	Signature
K Mirang	Print Name
Alpha Analytical, Inc.	Company
11/19/13 1435	Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

Report Due By: 5:00 PM On: 18-Nov-13

WorkOrder: CONR13110824

AMENDED Page:

2 of 10

TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x **EMail Address**

kbrandmueller@converseconsultants | EDD Required : No

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp 4 0° Samples Received 08-Nov-13 Date Printed 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRF

Alpha Sample ID CON13110824-16A B-3@6.5FT CON13110824-15A CON13110824-17A CON13110824-14A CON13110824-13A B-1@12FT CON13110824-12A B-1@8FT CON13110824-11A B-1@4FT CON13110824-10A CON13110824-09A B-2@16FT <u>φ</u> . В-2 B-3@4F1 B-15@4FT Sample ID Client SO SO S S SO SO å Matrix Date Š S 11/06/13 12:35 11/06/13 11:35 11/06/13 10:20 11/06/13 09:55 11/06/13 09:50 11/06/13 10:15 11/06/13 11:25 11/06/13 10:40 11/06/13 10:29 Collection No. of Bottles Alpha w ω w 6 ယ ω ω 6 Sub 0 0 0 0 0 0 0 0 0 TAT 6 σ O O 6 თ 6 6 თ POF Mold PloH PloH Hold Hold As. Ba, Cd, Cr, Pb, Hg. Ag. Se METALS_D As. Ba. Cd, Cr. Pb, Hg, Ag. Se As, Ba, Cd, Cr, Pb, Hg, Ag. Se METALS_S As, Ba, Cd, Cr, Pb, Hg, Ag, Se PNA_SIM_ Requested Tests XIS PNA_SIM_ MIS MIS TPH/E_S TPH/E N TPH/E_N TPH/E_W S_d/Hd1 GAS-N GAS-N 1-tube, 2-25 gram Encores 1-tube, no Encores Sample Remarks

Comments:

Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi.

Logged in by:	
Killeray	Signature
Kmony	Print Name
Alpha Analytical, Inc.	Company
11/19/13 1635	Date/Time

4840 Mill Street, Suite 5

Reno, NV 89502

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

NV AMENDED 30110

Report Attention Kathi Brandınueller (775) 284-9752 x

Phone Number EMail Address

kbrandmueller@converseconsultants | EDD Required : No

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

										Requested Tests	d Tests				
Alpha	Client		Collection	No. of	No. of Bottles		DIOH	METALS_D METALS_S	_	PNA_SIM_ PNA_SIM_		TPH/E_S	TPH/E_W	TPH/P_S	
Sample ID	Sample ID	Matr	Matrix Date	Alpha	Sub	TAT		Ç,	0	ď	\$				Sample Remarks
CON13110824-184	B-15@8FT	so	11/06/13 12:40	ω	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-19A	B-15A@8FT	so	11/06/13 12:41	ω	0	6			As, Ba, Cd, Cr, Pb, Hg. Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-20A	B-15@12FT	so	11/06/13 12:48	ω	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-21A I	B-15	AQ.	11/06/13 13:15	6	0	6		As, Da, Cd. Cr, Pb, Hg, Ag, Se			MIS		<u>.</u>		
CON13110824-224	B-4@4FT	So	11/06/13 14:05	ပ	0	6	НоІ								1-tube, 2-25 gram Encores
CON13110824-234 I	B-4@8FT	so	11/06/13 14:00	3	0	6	-		As, Ba, Cd. Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-24A	B-4@12FT	os	11/06/13 14:10	သ	0	6			As, Ba, Cd. Cr, Pb, Hg. Ag, Se	SIM		TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-25A	B-5@4FT	so	11/06/13 15:00	3	0	6	Hold								1-tube, 2-25 gram Encores
CON13110824-26A	B-5@8FT	so	11/06/13 15:15	ω	0	6		***************************************	As, Ba, Cd, Cr, Pb, Hg, Ag, Se	MIS		TPH/E_N		GAS-N	1-tube, 2-25 gram Encores

Comments:

Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi.

Logged in by:	
Killman	Signature
K Money	Print Name
Alpha Analytical, Inc.	Company
11/19/13 1635	Date/Time

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

Report Attention Kathi Brandmueller (775) 284-9752 x

EMail Address

TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

AMENDED Page: 4 of 10

Phone Number

kbrandmueller@converseconsultants | EDD Required : No

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp 4°C Samples Received 08-Nov-13 Date Printed 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

										Requested Tests	ed Tests				
Alpha	Client		Collection No. of Bottles	No. of	Bottles		ОЛОН	METALS_D	METALS_D METALS_S	PNA_SIM_	PNA_SIM_	TPH/E_S	M_3/Hd1	S_4/H41	
Sample ID	Sample ID	Matr	Matrix Date	Alpha	Sub	TAT		ď	ı	u.	*				Sample Remarks
CON13110824-27A	B-5@12FT	so	11/06/13	ω	0	6			As, Ba, Cd, Cr. Pb, Hg,	MIS		TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
		5	1	,			- Language	1 P. C.	Ag, oc		,				
CON13110824-28A	8.5	— &	11/06/13 15:35	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			SIM				
CON13110824-29A	B-6@4FT	so	11/06/13 16:05	ω	0	б			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-30A	B-6@8FT	-so	11/06/13 16:15	ω	0	6	НоН								1-tube, 2-25 gram Encores
CON13110824-31A	B-6@11FT	- so	11/06/13 16:20	ω	0	6			As. Ba, Cd. Cr. Pb, Hg. Ag, Sc			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-324	B-6	AQ	11/06/13 16:35	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			SIM				
CON13110824-33A	B-15-A	A	11/06/13 13:16	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			MIS				
CON13110824-34A	B-4-A	AQ	11/06/13 14:41	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			SIM				
CON13110824-35A	B-4A@12FT	so	11/06/13 14:11	ω	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
		1				,	3				•	11			

Comments:

Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi. Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM

Logged in by:	
16 Muray	Signature
K Money	Print Name
Alpha Analytical, Inc.	Company
11/19/13/1635	Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

kbrandmueller@converseconsultar	(775) 284-9752 x	Kathi Brandmueller
EMail Address	Frone Number	Report Attention

NAMENDED: 5010

WorkOrder: CONR13110824

Report Due By: 5:00 PM On: 18-Nov-13

ants | EDD Required : No Sampled by: Frank M. Reynolds III, Kathi Brand

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP Cooler Temp Samples Received 08-Nov-13 Date Printed 19-Nov-13

Sample ID QC Level: S3 CON13110824-39A B-4 CON13110824-37A B-14@4FT CON13110824-364 Field Blank CON13110824-38A B-1@16FT Sample ID Client = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Š SO SO 11/06/13 08:30 AQ 11/06/13 16:45 Matrix Date 11/06/13 14:40 11/06/13 10:40 Collection No. of Bottles Alpha Sub O 0 TAT G o G o HOLD Hold Hold As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se METALS_D METALS_S PNA_SIM_ S O S Requested Tests PNA_SIM_ MIS MIS TPH/E_S TPH/E_W TPH/E_N TPH/P_S Sample canceled. Encores matched up with 02A, per phone call with Kathi. 1-tube, no Encores Sample Remarks

Comments:

Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of <u>Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM</u> 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi.

Logged in by:	
undy k	Signature
mony !	Print Name
Alpha Analytical, Inc.	Company
11/19/13 1635	Date/Time

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller (775) 284-9752 x Phone Number kbrandmueller@converseconsultants | EDD Required : No EMail Address

NAMENDER 60170

WorkOrder: CONR13110824

Report Due By: 5:00 PM On: 18-Nov-13

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP Sampled by: Frank M. Reynolds III, Kathi Brand Cooler Temp Samples Received 08-Nov-13 Date Printed 19-Nov-13

Sample ID QC Level: S3 CON13110824-02A B-13@4F1 CON13110824-07A CON13110824-06A B-2@4FT CON13110824-04A B-13@11FT CON13110824-03A B-13@8FT CON13110824-01A B-14@5FT CON13110824-08A CON13110824-05A B-13 B-2@8F1 B-2@12FT Sample ID Client = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Ş SO SO SO SO S S S Matrix Date 11/06/13 09:28 11/06/13 08:30 11/06/13 08:05 11/06/13 09:30 11/06/13 09:20 11/06/13 08:35 11/06/13 08:40 11/06/13 09:40 Collection No. of Bottles Alpha Sub ω ω 0 0 0 0 0 0 TAT O σ 6 თ σ TPH/P_W VOC_S M_SOA 8260_Ns Requested Tests 1-tube, 2-25 gram Encores. Encores labeled B-14@4FT if enough volume, per Kathi Limited sample volume.
Analyze for SIM and Metals 1-tube, 2-25 gram Encores matched up per phone call Sample Remarks

Comments:

Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi. Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of

Logged in by:	
Williamery	Signature
KMunny	Print Name
Alpha Analytical, Inc.	Company
al, Inc. 11/19/13 1635	Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Matrix Type: AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other)

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CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

AMENDED Page: 7 of 10

Report Attention Kathi Brandmueller (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No

TEL: (775) 355-1044 FAX: (775) 355-0406 Phone Number EMail Address

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

PO: 08-73103-01/02-07

Reno, NV 89502

										Requested Tests	d Tests			_	
Alpha Client	ent		Collection	No. of Bottles	Bottles		W_HHAT	VOC_S	VOC_W						
Sample ID San	Sample ID	Matri	Matrix Date	Alpha Sub		TAT								<u>.</u>	Sample Remarks
CON13110824-09A B-2	B-2@16FT	so	11/06/13 09:50		0	6						_	_		1-tube, no Encores
CON13110824-10A B-2		å	11/06/13 09:55	6	0	6			8260_Ns						
CON13110824-11A B-1	B-1@4FT	so	11/06/13 10:15	ω	0	6									1-tube, 2-25 gram Encores
CON13110824-124 B-1	B-1@8FT	so	11/06/13 10:20	ယ	0	6					<u></u>				1-tube, 2-25 gram Encores
CON13110824-134 B-1	B-1@12FT	so	11/06/13 10:29	3	0	6									1-tube, 2-25 gram Encores
CON13110824-144 B-1		AQ	11/06/13 10:40	6	0	6			8260_Ns			_			
CON13110824-154 B-3	B-3@4FT	so	11/06/13 11:25	3	0	6									1-tube, 2-25 gram Encores
CON13110824-164 B-3	B-3@6.5FT	so	11/06/13 11:35	3	0	6		8260_Ns							1-tube, 2-25 gram Encores
CON13110824-174 B-1	B-15@4FT	so	11/06/13 12:35	3	0	6	<u>.</u>							1	1-tube, 2-25 gram Encores
CON13110824-18A B-1	B-15@8FT	so	11/06/13 12:40	з —	0	6									1-tube, 2-25 gram Encores

Logged in by: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi. Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Municip Signature K Mymy **Print Name** Alpha Analytical, Inc. Company 11/19/12 1635 Date/Time

Comments:

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

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Page: 8 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required: No EMail Address

Sampled by : Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received Date Printed

4 0° 08-Nov-13 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

Sample ID CON13110824-28A CON13110824-25A CON13110824-24A B-4@12FT CON13110824-23A B-4@8FT CON13110824-19A B-15A@8FT CON13110824-27A CON13110824-26A B-5@8FT CON13110824-22A CON13110824-21A B-15 CON13110824-20A B-15@12FT . Б-5 B-5@4FT B-4@4FT B-5@12FT Sample ID Client SO SO å S S S S S å ő Matrix Date 11/06/13 12:41 11/06/13 15:35 11/06/13 14:10 11/06/13 14:05 11/06/13 13:15 11/06/13 15:22 11/06/13 15:15 11/06/13 15:00 11/06/13 11/06/13 Collection No. of Bottlet 14:00 Alpha ω ω ယ ယ w ω 6 Sub 0 0 0 0 0 0 0 0 0 0 TAT 6 თ σ O σ o σ σ 6 o M_d/HdL 8260_Ns 8260_Ns VOC_S 8260_Ns VOC_W 8260_Ns 8260_Ns Requested Tests 1-tube, 2-25 gram Encores Sample Remarks

Comments:

Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Samples brought in by client, Frozen ice, Encores received on dry ice, Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi.

Logged in by:	
Killer	S
may	ignature
K	
muny	Print Name
Alph	
Alpha Analytical, Inc.	Company
1/19/13 1635	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

4840 Mill Street, Suite 5

Reno, NV 89502

Converse

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Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

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Page: 9 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Report Attention Kathi Brandmueller (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No

Phone Number EMail Address

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp <u>4</u> 0 Samples Received 08-Nov-13 Date Printed 19-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

					-			Requested Tests		
Alpha	Client	Collection	No. of Bottles	ottles	TPH/P_W	VOC_S	VOC_W			
Sample ID	Sample ID	Matrix Date	Alpha Sub	Sub TAT						Sample Remarks
CON13110824-29A	B-6@4FT	SO 11/06/13	သ	0 6						1-tube, 2-25 gram Encores
CON13110824-30A	B-6@8FT	SO 11/06/13 16:15	3	0 6						1-tube, 2-25 gram Encores
CON13110824-31A	B-6@11FT	SO 11/06/13 16:20	 ω	0 6						1-tube, 2-25 gram Encores
CON13110824-32A	B-6	AQ 11/06/13 16:35	6	0 6			8260_Ns			
CON13110824-33A	B-15-A	AQ 11/06/13 13:16	6	0 6			8260_Ns			
CON13110824-34A	B-4-A	AQ 11/06/13 14:41	6	0 6			8260_Ns			
CON13110824-35A	B-4A@12FT	SO 11/06/13 14:11	3	0 6						1-tube, 2-25 gram Encores
CON13110824-36A	Field Blank	AQ 11/06/13 16:45	6	0 6	GAS-N		8260_Ns			
CON13110824-37A	B-14@4FT	SO 11/06/13 08:30	0	0 6						Sample canceled. Encores matched up with 02A, per phone call with Kathi.

Logged in by: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 SIM to 16A and 24A on standard TAT, per phone conversation with Kathi. Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM uman Signature Mirmy Print Name Alpha Analytical, Inc. Company 11/19/12/1935 Date/Time

Comments:

Matrix Type: AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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Page: 10 of 10

Billing information:

CHAIN-OF-CUSTODY RECORD

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP PO: 08-73103-01/02-07 Sample ID CON13110824-38A B-1@16FT QC Level: S3 Comments: CON13110824-39A Reno, NV 89502 Reno, NV 89502 4840 Mill Street, Suite 5 Converse 4840 Mill Street, Suite 5 Logged in by: B 4 Please extract/analyze within holding time. Client will pay rush extraction charges. Due 11/29/13.KM Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation; with Kathi. Amended 11/19/13 16:35 to add 8260 and 8270 StM to 16A and 24A on standard TAT, per phone conversation with Kathi. Sample ID Client = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Mureus 8 Matrix Date Š Signature 11/06/13 10:40 11/06/13 14:40 Collection No. of Bottles Report Attention Kathi Brandmueller 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 Alpha Sub TEL: (775) 355-1044 FAX: (775) 355-0406 Alpha Analytical, Inc 0 Phone Number (775) 284-9752 x ΤAΤ o o TPH/P_W kbrandmueller@converseconsultants | EDD Required : No V0C_S EMaii Address **Print Name** W_DOV 8260_Ns Requested Tests Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824 Z Sampled by: Frank M. Reynolds III, Kathi Brand Cooler Temp Alpha Analytical, Inc. 4 0° Company Samples Received 08-Nov-13 1-tube, no Encores Sample Remarks 11110113 165 Date/Time Date Printed 19-Nov-13

4840 Mill Street, Suite 5

Reno, NV 89502

4840 Mill Street, Suite 5

Converse

PO: 08-73103-01/02-07

Reno, NV 89502

QC Level: S3

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No **EMail Address**

Z

Page: 1 of 10

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Sampled by: Frank M. Reynolds III, Kathi Brand

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP Cooler Temp 4°0 Samples Received 08-Nov-13 Date Printed 08-Nov-13

Sample ID CON13110824-01A B-14@5FT CON13110824-07A CON13110824-06A B-2@4FT CON13110824-04A B-13@11FT CON13110824-03A B-13@8FT CON13110824-02A CON13110824-08A CON13110824-05A B-13 B-13@4FT B-2@8FT B-2@12F1 Sample ID Client = Final Rpt, MBLK, LCS, MS/MSD With Surrogates S S å SO SO SO S SO 11/06/13 08:05 Matrix Date 11/06/13 09:20 11/06/13 09:40 11/06/13 08:40 11/06/13 08:35 11/06/13 08:30 11/06/13 09:28 Collection No. of Bottles 11/06/13 09:30 Alpha 4 ယ ω ယ ω ယ Sub 0 0 0 0 0 0 0 Ζ o o თ တ 6 o 0 σ HOF HOE НоЫ Hok Hold PloH Hold As, Ba, Cd, Cr. Pb, Hg, Ag, Sc METALS_D As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se METALS_S PNA_SIM_ PNA_SIM_ Requested Tests SIM TPH/E_S TPH/E_N TPH/E_N TPH/E_W TPH/P_S GAS-N GAS-N Limited sample volume.
Analyze for SIM and Metals 1-tube, 2-25 gram Encores. Encores labeled B-14@4FT, 1-tube, 2-25 gram Encores if enough volume, per Kathi matched up per phone call 1-tube, 2-25 gram Encores Sample Remarks with Kathi.

Comments: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Print Name Company Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Piastic OT-Other

K munny

Alpha Analytical, Inc.

11/8/13 1435

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Logged in by:

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Converse

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Reno, NV 89502

Ωlent:

Converse 4840 Mill Street, Suite 5

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Phone Number EMail Address

Kathi Brandmueller

(775) 284-9752 x

Z

WorkOrder: CONR13110824

Page: 2 of 10

Report Due By: 5:00 PM On: 18-Nov-13

kbrandmueller@converseconsultants | EDD Required : No

Sampled by : Frank M. Revno

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received Date Printed
4 °C 08-Nov-13 08-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC#: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

										Vadnasien iesta	en ears				
Alpha Sample ID	Client Sample ID	Matrix	Collection Matrix Date	No. of Alpha	No. of Bottles	TAT	НОГР	METALS_D METALS_S		PNA_SIM_	PNA_SIM_ PNA_SIM_ S W	TPH/E_S	TPH/E_W	TPH/P_S	Sample Remarks

CON13110824-09A	B-2@16FT	so	11/06/13 09:50		0	6	Hold								1-tube, no Encores
CON13110824-10A	B-2	ΑQ	11/06/13 09:55	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se		i	SIM				
CON13110824-11A	B-1@4FT	so	11/06/13 10:15	ပ	0	6	Нои								1-tube, 2-25 gram Encores
CON13110824-12A	B-1@8FT	so	11/06/13 10:20	3	0	6	НоЫ								1-tube, 2-25 gram Encores
CON13110824-13A	B-1@12FT	so	11/06/13 10:29	သ	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-14A	B-1	AQ	11/06/13 10:40	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			SIM				
CON13110824-15A	B-3@4FT	so	11/06/13 11:25	3	0	6	НоЫ								1-tube, 2-25 gram Encores
CON13110824-16A	B-3@6.5FT	so	11/06/13 11:35	3	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-17A	B-15@4FT	so	11/06/13 12:35	3	0	6	НоІ								1-tube, 2-25 gram Encores

Comments: 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of

Logged in by:	
Kullman	Signature
K-moray	Print Name
Alpha Analytical, Inc.	Company
ाषिता है।।वी	Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Reno, NV 89502

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Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x EMall Address

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Page: 3 of 10

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

kbrandmueller@converseconsultants EDD Required: No

Sampled by: Frank M. Reynolds III, Kathi Brand

Samples Received 08-Nov-13 Date Printed

Alpha Sample ID QC Level: S3 Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRF Р О.: CON13110824-20A CON13110824-19A B-15A@8FT CON13110824-184 B-15@8FT 08-73103-01/02-07 B-15@12FT Sample ID Client Final Rpt, MBLK, LCS, MS/MSD With Surrogates SO 11/06/13 12:48 SO 11/06/13 12:41 SO 11/06/13 12:40 Matrix Date Collection No. of Bottles Alpha ω ω ω Sub 0 0 0 Z თ თ თ POLD METALS_D METALS_S As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba. Cd, Cr, Pb, Hg, Ag. Se PNA_SIM_ Requested Tests PNA_SIM_ TPHÆ_S TPH/E_N TPH/E_N Cooler Temp 4 °C TPH/E_W TPH/P_S GAS-N GAS-N GAS-N 1-tube, 2-25 gram Encores 1-tube, 2-25 gram Encores 1-tube, 2-25 gram Encores Sample Remarks 08-Nov-13

Comments: Samples brought in by client. Prozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi. As, Ba, Cd, Ct, Pb, Hg. Ag, Se CON13110824-25A

B-5@4FT

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11/06/13 15:00

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Hold

CON13110824-26A

B-5@8F1

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11/06/13 15:15

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TPH/E_N

GAS-N

1-tube, 2-25 gram Encores

1-tube, 2-25 gram Encores

CON13110824-24A

B-4@12FT

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11/06/13 | 14:10

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CON13110824-23A

B-4@8F1

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11/06/13 14:00

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As, Ba, Cd, Cr, Ph, Hg, Ag, Se

As, Ba, Cd, Cr, Pb, Hg, Ag, Se

TPH/E N

GAS-N

1-tube, 2-25 gram Encores

TPH/E N

GAS-N

1-tube, 2-25 gram Encores

1-tube, 2-25 gram Encores

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CON13110824-22A

B-4@4F1

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11/06/13 14:05

CON13110824-21A

B-15

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11/06/13

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As, Ba, Cd, Cr, Ph, Hg, Ag, Se

MIS

Logged in by:	
Killing	Signature
KMMAN	Print Name
Alpha Analytical, Inc.	Company
1/8/13/1435	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

4840 Mill Street, Suite 5

Reno, NV 89502

Client:

4840 Mill Street, Suite 5 Converse

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Page: 4 of 10

Report Attention Kathi Brandmueller (775) 284-9752 x Phone Number kbrandmueller@converseconsultants | EDD Required : No **EMail Address**

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 08-Nov-13 Date Printed

QC Level: S3 Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

					ŀ					Requested Tests	ed Tests				
Alpha	Client		Collection	No. of	No. of Bottles		ногр	METALS_D METALS_S	METALS_S	PNA_SIM_	PNA_SIM_ PNA_SIM_	TPH/E_S	M_3/H41	TPH/P_S	
Sample ID	Sample ID	Matr	Matrix Date	Alpha	Sub	TAT		s	٥	s	*				Sample Remarks
CON13110824-274	B-5@12FT	SO	11/06/13 15:22	ω	0	6			As, Ba, Cd. Cr, Pb, Hg, Ag, Se	MIS		TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-28A	B-5	Ã	11/06/13 15:35	ტ	0	6		As, Ba, Cd, Ct, Pb, Hg, Ag, Se			MIS				
CON13110824-29A	B-6@4FT	so	11/06/13 16:05	ω	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-30A	B-6@8FT	so	11/06/13 16:15	ω	0	6	рон								1-tube, 2-25 gram Encores
CON13110824-31A	B-6@11FT	so	11/06/13 16:20	3	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
CON13110824-32A	8-6	AQ	11/06/13 16:35	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			MIS			-	
CON13110824-33A	B-15-A	ΑQ	11/06/13 13:16	6	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se			MIS				
CON13110824-344	B-4-A	AQ	11/06/13 14:41	6	0	6		As, Ba, Cd. Cr, Pb, Hg, Ag, Se			SIM				
CON13110824-35A	B-4A@12FT	so	11/06/13 14:11	ω	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se			TPH/E_N		GAS-N	1-tube, 2-25 gram Encores
						!		:							

Comments: Samples brought in by client. Frozen ice, Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi.

Logged in by:	
Kullman	Signature
K Murang	Print Name
Alpha Analytical, Inc.	Company
11/8/13 #35	Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

4840 Mill Street, Suite 5

Reno, NV 89502

Converse

4840 Mill Street, Suite 5

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No EMail Address

Z

Page: 5 of 10

WorkOrder: CONR13110824

Report Due By: 5:00 PM On: 18-Nov-13

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp 4°C Samples Received 08-Nov-13 08-Nov-13 Date Printed

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

Sample ID CON13110824-36A Field Blank CON13110824-39A CON13110824-38A CON13110824-37A B-14@4FT B-1@16F1 Sample iD Client S AQ 11/06/13 16:45 å S Matrix Date 11/06/13 08:30 11/06/13 14:40 11/06/13 10:40 Collection No. of Bottles Alpha Sub 6 0 ŦĄT 6 6 g 6 POCP Hold PPH METALS_D As, Ba, Cd, Cr, Ph, Hg, Ag, Se As, Ba, Cd, Cr, Ph, Hg, Ag, Se METALS_S PNA_SIM_ Requested Tests PNA_SIM_ ΧIS SIM TPHÆ_S TPH/E_W TPH/E_N TPH/P_S Sample canceled. Encores matched up with 02A, per phone call with Kathi. 1-tube, no Encores Sample Remarks

Comments: 8260. B-4 added to chain by lab, per phone conversation: with Kathi Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of

Logged in by:	
K sumay	Signature
KMMM	Print Name
Alpha Analytical, Inc.	Company
11/8/13 1435	Date/Time

4840 Mill Street, Suite 5

Reno, NV 89502

4840 Mill Street, Suite 5 Converse

CHAIN-OF-CUSTODY RECORD

Z

Page: 6 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No EMail Address

Sampled by: Frank M. Reynolds III, Kathi Brand

PO: 08-73103-01/02-07 QC Level: \$3 Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP Reno, NV 89502 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Cooler Temp 4 °C Samples Received 08-Nov-13 08-Nov-13 Date Printed

Sample ID CON13110824-03A B-13@8FT CON13110824-01A B-14@5FT CON13110824-08A CON13110824-07A B-2@8FT CON13110824-064 B-2@4FT CON13110824-05A CON13110824-04A B-13@11FT CON13110824-02A B-13 B-2@12FT B-13@4FT Sample ID Client SO Ã S S ő S S SO Matrix Date 11/06/13 08:30 11/06/13 09:30 11/06/13 09:28 11/06/13 09:20 11/06/13 08:35 11/06/13 08:05 11/06/13 09:40 11/06/13 08:40 Collection No. of Bottles Alpha Sub ယ ω w w 0 0 0 0 0 0 0 TAT o o o O O O M_d/Hdl VOC_S VOC W 8260_Ns Requested Tests Encores labeled B-14@4FT if enough volume, per Kathi Limited sample volume.

Analyze for SIM and Metals 1-tube, 2-25 gram Encores. 1-tube, 2-25 gram Encores matched up per phone cal 1-tube, 2-25 gram Encores Sample Remarks with Kathi

Comments: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi.

Logged in by: Kullmen Signature minus **Print Name** Alpha Analytical, Inc. Company 1118/13 1435 Date/Time

4840 Mill Street, Suite 5

Reno, NV 89502

4840 Mill Street, Suite 5

Converse

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 7 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Report Attention Phone Number EMail Address

Kathi Brandmueller (775) 284-9752 x

kbrandmueller@converseconsultants | EDD Required : No

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received Date Printed

4 0

08-Nov-13

08-Nov-13

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Sample ID CON13110824-18A B-15@8FT CON13110824-17A B-15@4FT CON13110824-16A B-3@6.5FT CON13110824-14A CON13110824-13A B-1@12FT CON13110824-12A CON13110824-11A B-1@4FT CON13110824-10A CON13110824-09A B-2@16FT CON13110824-15A B-3@4FT В<u>-</u>2 Ψ. B-1@8F1 Client Sample ID S Š So S S S SO SO Matrix Date S Š 11/06/13 10:40 11/06/13 09:50 11/06/13 12:40 11/06/13 10:29 11/06/13 12:35 11/06/13 11:35 11/06/13 11:25 11/06/13 10:20 11/06/13 09:55 11/06/13 10:15 Collection No. of Bottles Alpha ယ ω 6 ω 6 Sub 0 0 0 o o 0 0 0 0 Ζ 6 O o o 6 6 6 o TPH/P_W VOC_S VOC_W 8260_Ns 8260_Ns Requested Tests 1-tube, 2-25 gram Encores 1-tube, no Encores Sample Remarks

Comments: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi.

Logged in by:	
Killernag	Signature
Kommy	Print Name
Alpha Analytical, Inc.	Company
1/8/12 1435	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 8 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Kathi Brandmueller Report Attention Phone Number (775) 284-9752 x

kbrandmueller@converseconsultants | EDD Required : No EMail Address

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp 4°0 Samples Received 08-Nov-13 08-Nov-13 Date Printed

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

Sample ID CON13110824-28A CON13110824-27A B-5@12F1 CON13110824-26A B-5@8FT CON13110824-19A B-15A@8FT CON13110824-25A CON13110824-244 B-4@12FT CON13110824-234 B-4@8FT CON13110824-22A CON13110824-214 B-15 CON13110824-20A B-15@12FT B-5@4FT B-4@4FT Client Sample ID Š So S SO SO S å Matrix Date S ဗ S 11/06/13 15:35 11/06/13 15:22 11/06/13 14:10 11/06/13 14:00 11/06/13 13:15 11/06/13 12:41 11/06/13 15:15 11/06/13 15:00 11/06/13 14:05 Collection No. of Bottles 11/06/13 12:48 Alpha Sub ω ω ω ω ω ω O 0 0 0 0 0 0 0 ¥ O თ တ O တ თ თ თ σ M_d/Hd1 8260 Ns VOC_S 8260 Ns VOC_W 8260_Ns 8260_Ns Requested Tests 1-tube, 2-25 gram Encores Sample Remarks

Comments: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi.

•	Logged in by:	
	Killman	Signature
	month	Print Name
	Alpha Analytical, Inc.	Company
	11/8/13 #35	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 9 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Kathi Brandmueller Report Attention Phone Number (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No EMail Address

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received Date Printed 08-Nov-13

Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP QC Level: S3 PO: 08-73103-01/02-07 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates 4°C 08-Nov-13

Sample ID CON13110824-29A B-6@4FT CON13110824-36/ Field Blank CON13110824-34A CON13110824-33A B-15-A CON13110824-32A CON13110824-30A B-6@8FT CON13110824-37A CON13110824-35A B-4A@12FT CON13110824-31A B-6@11FT 8-4-A В-6 B-14@4FT Sample ID Client S Š SO So Š S SO Matrix Date ð Š 11/06/13 16:05 11/06/13 08:30 11/06/13 14:41 11/06/13 16:35 11/06/13 16:20 11/06/13 16:15 11/06/13 16:45 11/06/13 14:11 11/06/13 Collection No. of Bottles 13:16 Alpha Sub ω Ð φ ယ 0 0 0 0 0 0 0 0 Ζ თ o O O ග 6 თ 6 M_d/HdL GAS-N VOC_S VOC_W 8260_Ns 8260_Ns 8260_Ns 8260_Ns Requested Tests Sample canceled. Encores matched up with 02A, per 1-tube, 2-25 gram Encores 1-tube, 2-25 gram Encores 1-tube, 2-25 gram Encores 1-tube, 2-25 gram Encores phone call with Kathi. Sample Remarks

Comments: Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. B-4 added to chain by lab, per phone conversation: with Kathi.

Logged in by:	
Kishman	Signature
Kmoning	Print Name
Alpha Analytical, Inc.	Company
क्ता हा विभा	Date/Time

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other) NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

4840 Mill Street, Suite 5

Reno, NV 89502

Converse

4840 Mill Street, Suite 5

PO: 08-73103-01/02-07

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 10 of 10

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110824

Report Attention Kathi Brandmueller (775) 284-9752 x Phone Number kbrandmueller@converseconsultants | EDD Required : No EMail Address

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp 4°C Samples Received 08-Nov-13 08-Nov-13 Date Printed

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Client's COC #: 10204, 10203, 13449, 6043 Job: 08-73103-01/02-07/ Carlin Brownfields RRP

										Requested Tests	d Tests				
Alpha	Client	0	Collection No. of Bottles	No. of	Bottles		M_d/Hd1	S_DOA	TPH/P_W VOC_S VOC_W				_		
Sample ID	Sample ID	Matrix	Matrix Date Alpha Sub TAT	Alpha	Sub	TAT									Sample Remarks
CON13110824-38A B-1@16FT	B-1@16FT	so	SO 11/06/13	_	0	6						_	_	_	1-tube, no Encores
CON13110824-39A B-4	B-4	AQ	AQ 11/06/13 14:40	6	0	6			8260_Ns						

Logged in by: 8260. B-4 added to chain by lab, per phone conversation: with Kathi. Munay Signature mence Print Name Alpha Analytical, Inc. Company 11/8/13/1435 Date/Time

Samples brought in by client. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of

Comments:

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

9:4 ور 9 8:30 * Key: AQ - Aqueous WA - Waste OT - Other ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tediar B - Brass P - Plastic OT - Other NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples 9.50 <u>م</u>. ه City, State, Zip: Phone Number: City, State, Zip: Company Relinquished by: (Signature/Affillation): ADDITIONAL INSTRUCTIONS: 3.5 4 6. 5 6. 5 6. 5 8 हामा डिक्ट Samples Collected from which State? (circle one) Address: Company Address: (field sampler) attest to the validity and authenticity of this sample(s). I am awary that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.053 (c) (2) Time Date Matrix*
Sampled Sampled (See Key
(HHMM) (MM/DD) Below) Impted By: rquished by: (Signafure/Affiliation) FRANK M. 775 - 856-3833 Fax 0 Consultant/ Client Info: 70 S 9 Kotai Brandmuelly LO48 Hill St. #5 Billing Information: Romaros 2 CA (NV) 99 ō Date ž B-13 08 B-1304' B-1405 R-以 9 B-13 011 8-13 B-1 3-10 4 **=** Job and Purchase Order Info:

OB-13/03-01/02-07 Name:

Job Name: Cor In Broonsteads RQP Email Address:

Po. # HTT OB-13/03-01/03 To Pinone # Ş Sample Description (6) (6) 000 **(**) DOD Site Other (6) α Time P) 6 Received by: (Signature/Affiliation): Ø Received by: (Signature/Affiliation): Received by: (Signature/Affiliation 341-1 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 1 18 Satellite Service Centers: 100 HOLD Alpha Analytical, inc. HOLD 本のこと Report Attention/Project Manager: 手の口け 本のに (Stan 4010 OIL Musey As N V Phone: 775-355-1044 Phone: 714-386-2901 Phone: 702-281-4848 Phone: Fax. 916-366-9089 775-355-0408 Data Validation Level: EDD Required? Yes / No Date Date QC Deliverable Info: Page # 10204 + 17.4 6 ≡ EDF Required? Yes / No Time Enlores q 6917 Des Wast ٩. ₹

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received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

City, State, Zip: Restrictions of the House Consultations of the Hill St. #5

Phone Number:

Fax

Address: Company



Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 88431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern NV: 6255 McLeod Ave. Suite 24. Las Vegas, NV 88120 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90748

Phone: 775-355-1044 Fax 775-355-0406

10203

Phone: 702-281-4848

916-386-9089

Phone: 714-386-2901

	Consultant/ Client Info:	Job and Purcha		erabie imc	
lompany:		Job # 544	Name: Email Address:	EDD Required? Yes / No EI	EDF Required? Yes / No
λity, State, Zip:		P.O. **	Phone #	Global ID: Data Validation Level:	Pr 17
imples Collected	samples Collected from which State? (circle one) AZ CA (N	(NV) WA ID OR DOD Site Other	Analysis F	Analysis Requested	Remarks
Time Date	Martix		ontainers" (See Key Below) PH (E+P) tomolord list VOCs SVOC (SIM) SOIL RORA B Mutals World RORA B Mutals World RORA B Mutals Model Dis.		
11/6	OT CONVISIOSAY-13	B-1 @ 12'	NA A		
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) .3c			UK POLD		
1:35		W	×		
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DDITIONAL INSTRUCTIONS	UCTIONS:				
(field sampler) atta	at to the validity and authenticity of this samp	le(s). I am aware that tampering with or in	(field sampler) attact to the validity and authenticity of this sample(s). I am eyeare that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0838 (c) (2) (2) (3) (4) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	and may be grounds for legal action. NAC 445.0638 (c) (2).	
¥ 01	gnature/Iffiliation):	Date! (1/8/13 Time:	y; (Signature/Affiliation): (M)	Date: 1/8//3 Th	6/70 mil
telinquished by: (Signa/ure/Affiliation):	nadire/Affiliation):	Time:	Received by: (Signature/Affiliation):	Date: Ti	Time:
elinquished by: (Signature/Affiliation):	nature/Affiliation):	Date: Time:	Received by: (Signature/Affiliation):	Date: Tr	Time:

received by the laboratory with this COC. The flability of the laboratory is limited to the amount paid for the report

City, State, Zip: Address: Company:

Phone Number:

Hayo Hill St #5 Billing information: Fax



Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

> Phone FBX 775-355-1044 775-355-0406

Phone: 702-281-4848

916-366-9089

13449

Page # W of __

1. A. ()	mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2)	(field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of cylisci	sid sampler) attest to the validity and authenticity of this sa
			ADDITIONAL INSTRUCTIONS:
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	Vot × × ×	7 B-S 012'	5:24
anto the two e	THAT X X X	8-5 CB	
	NA TA TOLI	BY 04,	49/11
	Field Filtered?	Sample Description	Time Date Metro.* Sampled Sampled (See Kay) (H-MMMD) (MMDD). Below) Lab ID Number (For Lab Use Only)
Remarks	Analysis Requested	NV WA ID ON DODSING OTHER	Samples Collected from which State? (circle one) AZ CA
Global ID: Data Validation Level: III or IV	Email Address: Phone #: Cell #:	Job Name:	, Zp:
QC Deliverable Info: EDP Required? Yes / No EDF Required? Yes / No	rfo: Report Attention/Project Manager:	Job and Purchase Order Info:	Consultant/ Client Info:

A.

received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VQA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other NOTE: Samples are discarded 80 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples.

Relinquished by: (Signature/Affiliation):

Date

Time:

Received by: (Signature/Affiliation):

Date

Time:

Relinquished by: (Signature/Affiliation)	Relinquished by: (Signature/Affiliation)	Relinquished by: (Signat/le/Affiliation)	I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: עבוב בי	ADDITIONAL INSTRUCTIONS:		Mary Mary Company of the Company of		Company of the Compan	動物を表しています。	1440 11/6 A2 2 329	10:4% OT 500000 10:4% 500000 38	8.30 11/6 OI CON 13110824-37	Sampled Sampled Selow Lab ID Number (Use Only)	Time Date Matrix* P.O. #	City, State, Zip	Address		Phone Number 175 656 3683 Fax	Address 4000 M:11 St #5	lame Coovers	Billing Information:
Hecen	Receiv	Receiv	of this sample. I am aware that to							1-8	B1 @ 16	BIFE HE'	Sample Description	Phone:	Name:		Job# - 13(030)/02/			that -	-
Received by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	ampering with or intent	•						S	S	S	TAT	Mobile:		on / Proj	Job Name		Phone (775) 355-1044 Fax (775) 355-0406	255 Glendale Avenue, Suite 21 Sparks Nevada 89431-5778	Alpha Analytical, Inc.
)		KM	ionally mislabeling the							*	スチ	NA 2-5T	Fittered # C				Drao Freds A	100	1044	nue, Suite 21 9431-5778	tical, Inc.
		neul AA	e sample location, date or fin							×	#OF 7	平 〇 一 七	7/5/0/0/8	/FX		44		/ Analys		ID OR OTHER Pa	Samples Collected
Date	Date	Date: ///8//3	ne of collection is con							×			14	CRY /	SA O	700	1	Analyses Required		OTHER	From Which St
arrie:	Time:	Time: 0917	sidered fraud and may be							added by lab	Taker Cores		REMARKS	Global ID#	EDD / EDF? YES NO		Level: III or IV			Page # 4 of 4	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis *Key: AQ - Aqueous of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report. SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar 0-Orbo T-Tedlar B-Brass P-Plastic



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/Carlin Brownfields RRP

Metals by ICPMS EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: Field Blank					
Lab ID: CON13110849-22A	Chromium (Cr)	ND	0.010 mg/L	11/13/13	11/13/13
Date Sampled 11/07/13 15:18	Arsenic (As)	ND	0.0050 mg/L	11/13/13	11/13/13
•	Selenium (Se)	ND	0.0050 mg/L	11/13/13	11/13/13
	Silver (Ag)	ND	0.0050 mg/L	11/13/13	11/13/13
	Cadmium (Cd)	ND	0.0020 mg/L	11/13/13	11/13/13
	Barium (Ba)	ND	0.0050 mg/L	11/13/13	11/13/13
	Mercury (Hg)	ND	0.0010 mg/L	11/13/13	11/13/13
	Lead (Pb)	ND	0.0050 mg/L	11/13/13	11/13/13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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11/15/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

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Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/Carlin Brownfields RRP

Dissolved Metals by ICPMS EPA Method 200.8

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: B-7					
Lab ID: CON13110849-05A	Chromium (Ct) Dissolved	ND	0,010 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 12:30	Arsenic (As), Dissolved	0.0092	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 12:30	Selenium (Se), Dissolved	0.0092	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	0.0073 ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.075	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0030 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-7A	·		_		
Lab ID : CON13110849-06A	Chromium (Cr), Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 12:32	Arsenic (As), Dissolved	0.0094	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 12:32	Selenium (Se), Dissolved	0.0077	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.079	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-9					
Lab ID: CON13110849-12A	Chromium (Cr.) Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 13:25	Arsenic (As), Dissolved	0.0085	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/0//15 15:25	Selenium (Se), Dissolved	0.0068	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.057	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
Client ID: B-11					
Lab ID: CON13110849-21A	Chromium (Cr). Dissolved	ND	0.010 mg/L	11/12/13	11/12/13
Date Sampled 11/07/13 15:00	Arsenic (As), Dissolved	0.015	0.0050 mg/L	11/12/13	11/12/13
Date Sampled 11/07/15 15,00	Selenium (Se), Dissolved	0.0058	0.0050 mg/L	11/12/13	11/12/13
	Silver (Ag), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13
	Cadmium (Cd), Dissolved	ND	0.0020 mg/L	11/12/13	11/12/13
	Barium (Ba), Dissolved	0.16	0.0050 mg/L	11/12/13	11/12/13
	Mercury (Hg), Dissolved	ND	0.0010 mg/L	11/12/13	11/12/13
	Lead (Pb), Dissolved	ND	0.0050 mg/L	11/12/13	11/12/13



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ND = Not Detected



Roger Scholl Kand

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Walter Hinkow

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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/Carlin Brownfields RRP

Metals by ICPMS EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: B-7@12ft					
Lab ID: CON13110849-03A	Chromium (Cr)	13	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/07/13 11:34	Arsenic (As)	7.7	1.0 mg/Kg	11/13/13	11/13/13
•	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	530	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	9.8	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-7A@12ft					
Lab ID: CON13110849-04A	Chromium (Cr)	15	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/07/13 11:35	Arsenic (As)	7.0	1,0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	410	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	11	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-8@7ft					
Lab ID: CON13110849-08A	Chromium (Cr)	17	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/07/13 12:53	Arsenic (As)	12	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	400	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	9.2	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-9@8ft					
Lab ID: CON13110849-10A	Chromium (Cr)	16	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/07/13 13:05	Arsenic (As)	8.0	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	480	0.20 mg/Kg	11/13/13	11/13/13
	Lead (Pb)	9.5	1.0 mg/Kg	11/13/13	11/13/13



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Client ID: B-10@12ft					
Lab ID: CON13110849-15A	Chromium (Cr)	17	1.0 mg/Kg	11/13/13	11/13/13
Date Sampled 11/07/13 13:48	Arsenic (As)	6.4	1.0 mg/Kg	11/13/13	11/13/13
	Selenium (Se)	ND	2.0 mg/Kg	11/13/13	11/13/13
	Silver (Ag)	ND	1.0 mg/Kg	11/13/13	11/13/13
	Cadmium (Cd)	, ND	1.0 mg/Kg	11/13/13	11/13/13
	Barium (Ba)	350	1.0 mg/Kg	11/13/13	11/13/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/13/13	11/13/13
*	Lead (Pb)	7.0	1.0 mg/Kg	11/13/13	11/13/13
Client ID: B-11@12ft					
Lab ID: CON13110849-19A	Chromium (Cr)	14	1.0 mg/Kg	11/14/13	11/14/13
Date Sampled 11/07/13 14:28	Arsenic (As)	7.1	1.0 mg/Kg	11/14/13	11/14/13
	Selenium (Se)	ND	2.0 mg/Kg	11/14/13	11/14/13
	Silver (Ag)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Barium (Ba)	420	1.0 mg/Kg	11/14/13	11/14/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/14/13	11/14/13
	Lead (Pb)	8.4	1.0 mg/Kg	11/14/13	11/14/13
Client ID: B-11@15ft					
Lab ID: CON13110849-20A	Chromium (Cr)	5.2	1.0 mg/Kg	11/14/13	11/14/13
Date Sampled 11/07/13 14:38	Arsenic (As)	5.1	1.0 mg/Kg	11/14/13	11/14/13
	Selenium (Se)	ND	2.0 mg/Kg	11/14/13	11/14/13
	Silver (Ag)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Barium (Ba)	94	1.0 mg/Kg	11/14/13	11/14/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/14/13	11/14/13
	Lead (Pb)	3.8	1.0 mg/Kg	11/14/13	11/14/13
Client ID: B-12@7ft					
Lab ID: CON13110849-24A	Chromium (Cr)	8.6	1.0 mg/Kg	11/14/13	11/14/13
Date Sampled 11/07/13 15:24	Arsenic (As)	8.5	1.0 mg/Kg	11/14/13	11/14/13
	Selenium (Se)	ND	2.0 mg/Kg	11/14/13	11/14/13
	Silver (Ag)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Cadmium (Cd)	ND	1.0 mg/Kg	11/14/13	11/14/13
	Barium (Ba)	280	1.0 mg/Kg	11/14/13	11/14/13
	Mercury (Hg)	ND	0.20 mg/Kg	11/14/13	11/14/13
	Lead (Pb)	8.2	1.0 mg/Kg	11/14/13	11/14/13

Sample results were calculated on a wet weight basis. ND = Not Detected



Roger Scholl Kandy Soulan

Walter Striken

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson. CA • (714) 386-2901 / info@alpha-analytical.com

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11/15/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Kathi Brandmueller Attn:

Phone: (775) 284-9752

Fax:

(775) 856-3513

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-05A

Client I.D. Number: B-7

Sampled: 11/07/13 12:30

Received: 11/08/13

Extracted: 11/08/13 13:11 Analyzed: 11/15/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit	
1	Naphthalene	0.039	0.020 µg/L	
2	2-Methylnaphthalene	0.040	0.020 μg/L	•
3	1-Methylnaphthalene	0.031	0.020 µg/L	
4	Acenaphthylene	ND	0.020 μg/L	
5	Acenaphthene	ND	0.020 μg/L	
6	Fluorene	ND	0.020 µg/L	
7	Phenanthrene	ND	0.020 μg/L	
8	Anthracene	ND	0.020 μg/L	
9	Fluoranthene	ND	0.020 μg/L	
10	Pyrene	ND	0.020 μg/L	
11	Benzo(a)anthracene	ND	0.020 μg/L	
12	Chrysene	ND	0.020 μg/L	
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L	
14	Benzo(a)pyrene	ND	0.020 µg/L	
15	Indeno(1,2,3-cd)pyrene	ND	0.020 µg/L	
16	Dibenz(a,h)anthracene	ND	0.020 μg/L	
17	Benzo(g,h,i)perylene	ND	0.020 μg/L	

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Kandy Saulmer

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

11/18/13 **Report Date**

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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Alpha Analytical Number: CON13110849-06A

08-73103-01/02-07/Carlin Brownfields RRP

Client I.D. Number: B-7A

Attn: Kathi Brandmueller

Phone: (775) 284-9752 Fax:

(775) 856-3513

Sampled: 11/07/13 12:32

Received: 11/08/13 Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	0.020 µg/L
2	2-Methylnaphthalene	ND	0.020 µg/L
3	1-Methylnaphthalene	0.022	0.020 µg/L
4	Acenaphthylene	ND	0.020 µg/L
5	Acenaphthene	ND	0.020 µg/L
6	Fluorene	ND	0.020 µg/L
7	Phenanthrene	ND	0.020 μg/L
8	Anthracene	ND	0.020 μg/L
9	Fluoranthene	ND	0.020 μg/L
10	Pyrene	ND	0.020 μg/L
11	Benzo(a)anthracene	ND	0.020 μg/L
12	Chrysene	ND	0.0 2 0 μg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L
14	Benzo(a)pyrene	ND	0.020 μg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L
16	Dibenz(a,h)anthracene	ND	0.020 μg/L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Kandy Saulaur

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11/18/13 Report Date



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ANALYTICAL REPORT

Kathi Brandmueller

(775) 284-9752

(775) 856-3513

Attn:

Fax:

Phone:

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-12A

Client I.D. Number: B-9

Sampled: 11/07/13 13:25

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	0.020 μg/L
2	2-Methylnaphthalene	ND	0.020 μg/L
3	1-Methylnaphthalene	0.027	0.020 μg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	ND	0. 02 0 μg/L
6	Fluorene	ND	0.020 μg/L
7	Phenanthrene	МD	0.020 μg/L
8	Anthracene	ND	0.020 μg/L
9	Fluoranthene	ND	0.020 µg/L
10	Pyrene	ND	0.020 μg/L
11	Benzo(a)anthracene	ND	0.020 μg/L
12	Chrysene	ND	0.020 µg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 μg/L
14	Benzo(a)pyrene	ND	0.020 μg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L
16	Dibenz(a,h)anthracene	ND	0.020 µg/L
17	Benzo(g,h,i)perylene	ND	0.020 µg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Report Date



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ANALYTICAL REPORT

Phone: (775) 284-9752

Kathi Brandmueller

(775) 856-3513

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Client I.D. Number: B-11

Alpha Analytical Number: CON13110849-21A

Attn:

Fax:

Sampled: 11/07/13 15:00

Received: 11/08/13

Extracted: 11/08/13 13:11

Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	0.020 μg/L
2	2-Methylnaphthalene	ND	0.020 μg/L
3	1-Methylnaphthalene	ND	0.020 μg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	ND	0.020 μg/L
6	Fluorene	ND	0.020 μg/L
7	Phenanthrene	ND	0.020 μg/L
8	Anthracene	ND	0.020 μg/L
9	Fluoranthene	ND	0.020 µg/L
10	Pyrene	ND	0.020 μg/L
11	Benzo(a)anthracene	ND ·	0.020 µg/L
12	Chrysene	ND	0.020 μg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 µg/L
14	Benzo(a)pyrene	ND	0.020 μg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 μg/L
16	Dibenz(a,h)anthracene	ND	0.020 μg /L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

Kandy Saulour

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11/18/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-22A

Client I.D. Number: Field Blank

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/07/13 15:18

Received: 11/08/13

Extracted: 11/08/13 13:11 Analyzed: 11/13/13

Semivolatile Organics by GC/MS - SIM EPA Method 625/SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	0.020 μg/L
2	2-Methylnaphthalene	ND	0.020 μg/L
3	1-Methylnaphthalene	ND	0.020 μg/L
4	Acenaphthylene	ND	0.020 μg/L
5	Acenaphthene	ND	0.020 μg/L
6	Fluorene	ND	0.020 µg/L
7	Phenanthrene	ND	0.020 μ g /L
8	Anthracene	ND	0.020 μ g /L
9	Fluoranthene	ND	0.020 µg/L
10	Pyrene	ND	0.020 µg/L
11	Benzo(a)anthracene	ND	0.020 µg/L
12	Chrysene	ND	0.020 µg/L
13	Benzo(b&k)fluoranthene, isomeric pair	ND	0.040 µg/L
14	Benzo(a)pyrene	ND	0.020 µg/L
15	Indeno(1,2,3-cd)pyrene	ND	0.020 µ g /L
16	Dibenz(a,h)anthracene	ND	0.020 μg/L
17	Benzo(g,h,i)perylene	ND	0.020 μg/L

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

ND = Not Detected



Roger Scholl

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11/18/13 Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Attn:

Kathi Brandmueller

Phone: (775) 284-9752

Fax:

(775) 856-3513

Date Received: 11/08/13

Job:

08-73103-01/02-07/Carlin Brownfields RRP

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID:	B-7@12ft					
Lab ID:	CON13110849-03A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 11:34	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-7A@12ft					
Lab ID:	CON13110849-04A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 11:35	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
•		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-8@7ft					
Lab ID:	CON13110849-08A	TPH-E (DRO)	ND	10 mg/Kg	11/15/13	11/16/13
Date Sampled	11/07/13 12:53	TPH-E (ORO)	ND	10 mg/Kg	11/15/13	11/16/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-9@8ft					
Lab ID:	CON13110849-10A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 13:05	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-10@12ft					
Lab ID:	CON13110849-15A	TPH-E (DRO)	ND .	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 13:48	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-11@12ft					
Lab ID:	CON13110849-19A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 14:28	TPH-E (ORO)	ND	10 mg/ Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13
Client ID:	B-11@15ft					400 /
Lab ID:	CON13110849-20A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13
Date Sampled	11/07/13 14:38	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/ K g	11/11/13	11/13/13
Client ID:	Field Blank					11/00/10
Lab ID:	CON13110849-22A	TPH-E (DRO)	ND	0.50 mg/L	11/08/13	11/09/13
Date Sampled	11/07/13 15:18	TPH-E (ORO)	ND	0.50 mg/L	11/08/13	11/09/13
		TPH-P (GRO)	ND	0.50 mg/L	11/12/13	11/12/13
Client ID:	B-12@7ft				11/00/12	11/00/12
Lab ID:	CON13110849-24A	TPH-E (DRO)	ND	10 mg/Kg	11/08/13	11/09/13 11/09/13
Date Sampled	11/07/13 15:24	TPH-E (ORO)	ND	10 mg/Kg	11/08/13	11/09/13
		TPH-P (GRO)	ND	10 mg/Kg	11/11/13	11/13/13



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Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
Oil Range Organics (ORO) C22-C40+
Sample results were calculated on a wet weight basis.

ND = Not Detected

ACCREDITED
Dod ELAP

Roger Scholl

KandySoulm

Dalter Horihon

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11/18/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-05A

Client I.D. Number: B-7

Attn: Kathi Brandmueller Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/07/13 12:30

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				•
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L			·	
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ИD	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 µg/L				

ND = Not Detected



Roger Scholl

Kandy Saulur

Walter Hinkmon

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
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11/18/13

Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-06A

Client I.D. Number: B-7A

Attn: Kathi Brandmueller

(775) 284-9752 Phone:

Fax:

(775) 856-3513

Sampled: 11/07/13 12:32

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit	_	Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 μg/L	27	m,p-Xylene	ND	1.0 μ g/ L
3	Chloroethane	ND	1.0 μ g/L	28	Bromoform	ND	1.0 μg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachioroethane	ND	1.0 μ g/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µ g/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 μ g/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			•	•
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 μ g/L				
24	Tetrachioroethene	ND	1.0 μ g/L				
25	Chlorobenzene	ND	1.0 μg/L				

ND = Not Detected



Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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N 11/18/13 Report Date



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ANALYTICAL REPORT

Kathi Brandmueller

(775) 284-9752

(775) 856-3513

Attn:

Fax:

Phone:

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-12A

Client I.D. Number: B-9

Sampled: 11/07/13 13:25

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 μg/L	29	o-Xylene	ND	1.0 μg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 μ g/ L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 μg/L	32	1,4-Dichlorobenzene	. ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 μg/L				
12	1,2-Dichloroethane	ND	1.0 μg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 μg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 µg/ L				

ND = Not Detected



Roger Scholl

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Report Date



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ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-21A

Client I.D. Number: B-11

Attn: Kathi Brandmueller Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/07/13 15:00

Received: 11/08/13 Extracted: 11/12/13

Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 μ g/ L
3	Chloroethane	ND	1.0 µg/L	28	Bromoform	ND	1.0 μg/L
4	Bromomethane	ND	2.0 μ g/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 μg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 μg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L			•	
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND I	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 µg/L				
20	trans-1,3-Dichloropropene	ND	1.0 μg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 μ g/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 μ g/ L				

ND = Not Detected



Roger Scholl

Kandy Davlmer

Dalter Hinkow

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11/18/13

Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

08-73103-01/02-07/Carlin Brownfields RRP

Alpha Analytical Number: CON13110849-22A

Client I.D. Number: Field Blank

Attn: Kathi Brandmueller

Phone: (775) 284-9752

Fax: (775) 856-3513

Sampled: 11/07/13 15:18

Received: 11/08/13

Extracted: 11/12/13 Analyzed: 11/12/13

Volatile Organics by GC/MS EPA Method SW8260B

			Reporting				Reporting
	Compound	Concentration	Limit		Compound	Concentration	Limit
1	Chloromethane	ND	2.0 µg/L	26	Ethylbenzene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	m,p-Xylene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 μg/L	28	Bromoform	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	o-Xylene	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 μg/L	30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	1,3-Dichlorobenzene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L	32	1,4-Dichlorobenzene	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	33	1,2-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L				
10	cis-1,2-Dichloroethene	ND	1.0 µg/L				
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	1.0 µg/L				
16	1,2-Dichloropropane	ND	1.0 μg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	cis-1,3-Dichloropropene	ND	1.0 μ g/L				
20	trans-1,3-Dichloropropene	ND	1.0 µg/L				
21	1,1,2-Trichloroethane	ND	1.0 µg/L				
22	Toluene	ND	1.0 µg/L				
23	Dibromochloromethane	ND	1.0 µg/L				
24	Tetrachloroethene	ND	1.0 µg/L				
25	Chlorobenzene	ND	1.0 µg/L				

ND = Not Detected



Roger Scholl

Kandy Saulmer

Walter Herekow

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.



11/18/13 Report Date

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VOC Sample Preservation Report

Work Order: CON13110849

Job:

08-73103-01/02-07/Carlin Brownfields RRP

Alpha's Sample ID	Client's Sample ID	Matrix	pH
 13110849-05A	B-7	Aqueous	2
13110849-06A	B-7A	Aqueous	2
13110849-12A	B -9	Aqueous	2
13110849-21A	B-11	Aqueous	2
13110849-22A	Field Blank	Aqueous	2



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Date: 15-Nov-13	QC Summary Report										
Method Blank		Туре: МІ	BLK Te	est Code: EPA	Meth	nod SW60	20 / SW60:	20A			
File ID: 049 _			Ва	atch ID: 31988			A⊓alys	is Date:	11/13/2013 19:59		
Sample ID: MB-31988	Units : mg/L	ı	Run ID: IC	P/MS_131113	Α		Prep D	ate:	11/13/2013 09:16		
Analyte	Result	PQL				LCL(ME)	UCL(ME) F	RPDRef\	/ai %RPD(Limit)	Qual	
Chromium (Cr)	ND	0.01					· · · · · · ·				
Arsenic (As)	· ND	0.005									
Selenium (Se)	ND	0.005									
Silver (Ag)	ND	0.005									
Cadmium (Cd)	ND	0.002									
Barium (Ba)	ND	0.005									
Mercury (Hg) Lead (Pb)	ND ND	0.001 0.005									
	**										
Laboratory Control Spike		Type: LC		est Code: EPA		hod SW60		_	4444010040.00.05		
File ID: 051_		Batch ID: 31988							11/13/2013 20:05		
Sample ID: LCS-31988	Units : mg/L			P/MS_131113			Prep D		11/13/2013 09:16		
Analyte	Result	PQL	SpkVal	SpkRefVal %	REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual	
Chromium (Cr)	0.263	0.01	0.25		105	80	120				
Arsenic (As)	0.267	0.005	0.25		107	80	120				
Selenium (Se)	0.268	0.005	0.25		107	80	120				
Silver (Ag)	0.27	0.005	0.25		108	80	120				
Cadmium (Cd) Barium (Ba)	0.264 2.52	0.002 0.005	0.25 2.5		106 101	8 0 80	120 120				
Mercury (Hg)	0.0043	0.003	0.005		86	80	120				
Lead (Pb)	0.244	0.005	0.25		98	80	120				
Sample Matrix Spike		Type: M	S T	est Code: EPA	\ Meti	hod SW60	20 / SW60	20A			
File ID: 053 _			В	atch ID: 31988	}		Analys	is Date:	11/13/2013 20:11		
Sample ID: 13110849-22AMS	Units : mg/L		Run ID: IC	P/MS_131113	3A		Prep D	Date:	11/13/2013 09:16	;	
Analyte	Result	PQL	SpkVal	SpkRefVal %	6REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qua	
Chromium (Cr)	0.255	0.01	0.25	0	102	75	125		-		
Arsenic (As)	0.253	0.005	0.25	0	101	75	125				
Selenium (Se)	0.258	0.005	0.25		103	75	125				
Silver (Ag)	0.26	0.005	0.25	•	104	75	125				
Cadmium (Cd)	0.251	0.002	0.25		101	75 75	125 125				
Barium (Ba) Mercury (Hg)	2.45 0.0041	0.005 0.001	2.5 0.005	0	98 82	75 75	125				
Lead (Pb)	0.235	0.001	0.005	Ö	94	75 75	125				
		Туре: М	SD T	est Code: EPA	A Mat	hod SW60	20 / SW60	20A			
Sample Matrix Spike Duplicate File ID: 054		, ypc. in		atch ID: 3198 8		1104 01100			11/13/2013 20:14	ı.	
Sample ID: 13110849-22AMSD	Units : mg/L		_	P/MS_131113			Prep [11/13/2013 09:16		
Analyte	Result	PQL				LCL(ME)	-		Val %RPD(Limit)	Qua	
Chromium (Cr)	0.265	0.01	0.25		106	75	125	0.255			
Arsenic (As)	0.269	0.005	0.25		108	75 75	125	0.253			
Selenium (Se)	0.275	0.005	0.25		110	75	125	0.258			
Silver (Ag)	0.274	0.005	0.25		110	75	125	0.259			
Cadmium (Cd)	0.267	0.002		0	107	75	125	0.251			
Barium (Ba)	2.57	0.005	2.5		103	75	125	2.44			
Mercury (Hg)	0.004	0.001	0.005	0	80	75	125	0.004			
Lead (Pb)	0.247	0.005	0.25	0	99	75	125	0.235	51 4.7(20)		



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Date:	OC Summary Report	Work Order:
15-Nov-13	QC Summary Report	13110849

Comments:



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Date: 15-Nov-13	QC Summary Report									
Method Blank		Туре МВ	LK Te	st Code: EF	A Met	hod SW60	20 / SW60	20A		
File ID: 014_			Ва	tch ID: 3199	95		Analys	sis Date:	11/13/2013 18:00	•
Sample ID: MB-31995	Units : mg/	Ka Ri	ın ID: ICI	P/MS_1311	13B		Prep D	Date:	11/13/2013 13:51	
Analyte	Result	PQL				LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Chromium (Cr)	ND	1					7			
Arsenic (As)	ND	1								
Selenium (Se)	ND	2								
Silver (Ag)	ND	1								
Cadmium (Cd)	ND	1								
Barium (Ba)	ND	1								
Mercury (Hg) Lead (Pb)	ND ND	0.2 1								
Laboratory Control Spike	IND	Type LCS	: T _e	est Code: EF	A Mat	had SW60	20 / SW60	204	· · · · · · · · · · · · · · · · · · ·	
File ID: 016_		Type Los	-	itch ID: 319 9		1104 31100			11/13/2013 18:06	
Sample ID: LCS-31995	Units : mg/l	Ka 🗅		P/MS_1311			Prep D		11/13/2013 13:51	
Analyte	Result	ng Ki PQL				LOUMEN	•		/al %RPD(Limit)	Qual
	· · · · · · · · · · · · · · · · · · ·			opkreival				INF DIVOLV	rai /0131 D(LIIIIII)	
Chromium (Cr) Arsenic (As)	23.4	1	25 25		94	80	120			
Selenium (Se)	23.3 24.1	1 2	25 25		93 96	80 80	120 120			
Silver (Ag)	24.1	1	25 25		96	80	120			
Cadmium (Cd)	23.2	i	25		93	80	120			
Barium (Ba)	223	1	250		89	80	120			
Mercury (Hg)	0.552	0.2	0.5		110	80	120			
Lead (Pb)	21.8	1	25		87	80	120			
Sample Matrix Spike		Type MS	Te	est Code: EF	PA Met	hod SW60	20 / SW60	20A		
File ID: 018_			Ba	atch ID: 319 9	95		Analys	sis Date:	11/13/2013 18:24	
Sample ID: 13110824-04AMS	Units : mg/ i	Kg R	un ID: IC	P/MS_1311 ¹	13B		Prep [Date:	11/13/2013 13:51	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Chromium (Cr)	38	1	25	15.89	88	75	125			
Arsenic (As)	30	1	25	18.59	46	75	125			M2
Selenium (Se)	28.2	2	25	5.641	90	75	125		•	
Silver (Ag)	25.4	1	25	0	102	75	125			
Cadmium (Cd)	25.2	1	25	0	101	75 75	125			
Barium (Ba)	384	1	250	110.7	109	75 75	125			
Mercury (Hg) Lead (Pb)	0.487 26.6	0.2 1	0.5 25	0 10.86	97 63	75 75	125 125			M2
Sample Matrix Spike Duplicate		Type MS		est Code: El		had SW6(120 / SW60	1204		
File ID: 019_		Type Inc		atch ID: 319					11/13/2013 18:27	
Sample ID: 13110824-04AMSD	Units : mg/	Ko R		P/MS_1311			Prep [Date:	.11/13/2013 13:51	
Analyte	Result	PQL				LCL(ME)			/al %RPD(Limit)	Qual
Chromium (Cr)	34.4	1	25	15.89	74	75	125	37.96		M2
Arsenic (As)	35.7	1	25	18.59	68	75	125	30.01		M2
Selenium (Se)	27.1	2	25	5.641	86	75	125	28.16		
Silver (Ag)	26.5	1	25	0	106	75	125	25.38	3 4.3(20)	
Cadmium (Cd)	25.7	1	25	0	103	75	125	25.2		
Barium (Ba)	406	1	250	110.7	118	75	125	384.		
Mercury (Hg) Lead (Pb)	0.423 28.6	0.2	0.5	10.00	85	75 75	125	0.487		M2
	28 K	1	25	10.86	71	75	125	26.6	1 7.2(20)	IVIZ



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Date: 15-Nov-13 QC Summary Report Work Order: 13110849

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date: 15-Nov-13	(Work Order: 13110849							
Method Blank File ID: 018_ Sample ID: MB-31981 Analyte	Units : mg/L Result	Type N	B Run ID: IC	est Code: El atch ID: 319 P/MS_1311 SpkRefVal	81 12A		Analysis Prep Da	ite:	11/12/2013 15:16 11/12/2013 13:43 Val %RPD(Limit)	•
Chromium (Cr), Dissolved Arsenic (As), Dissolved Selenium (Se), Dissolved Silver (Ag), Dissolved Cadmium (Cd), Dissolved Barlum (Ba), Dissolved Mercury (Hg), Dissolved Lead (Pb), Dissolved	ND ND ND ND ND ND ND ND	0.01 0.005 0.005 0.002 0.002 0.005 0.001		•						·
Laboratory Control Spike File ID: 020_		Type L		est Code: El atch ID: 319		hod 200.8	Analysis	Doto:	11/12/2013 15:23	
Sample ID: LC\$-31981	Units : mg/L			P/MS_1311			Prep Da		11/12/2013 13:23	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Qual
Chromium (Cr), Dissolved Arsenic (As), Dissolved Selenium (Se), Dissolved Silver (Ag), Dissolved Cadmium (Cd), Dissolved Barium (Ba), Dissolved Mercury (Hg), Dissolved Lead (Pb), Dissolved	0.0513 0.0515 0.0523 0.0533 0.0518 0.049 0.000959 0.0467	0.01 0.005 0.005 0.005 0.002 0.005 0.001 0.005	0.05 0.05 0.05 0.05 0.05 0.001		103 103 105 107 104 98 96 93	80 80 80 80 80 80 80	120 120 120 120 120 120 120 120			
Sample Matrix Spike		Туре М	_	est Code: EF			120			
File ID: 022_		•		atch ID: 3198			Analysis	Date:	11/12/2013 15:29	
Sample ID: 13110849-05AMS	Units: mg/L		Run ID: IC	P/MS_1311	12A		Prep Da		11/12/2013 13:43	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RF	PDRef\	/al %RPD(Limit)	Qual
Chromium (Cr), Dissolved Arsenic (As), Dissolved Selenium (Se), Dissolved Silver (Ag), Dissolved Cadmium (Cd), Dissolved Banum (Ba), Dissolved Mercury (Hg), Dissolved Lead (Pb), Dissolved	0.0518 0.0612 0.0581 0.0533 0.0529 0.127 0.0008 0.047	0.01 0.005 0.005 0.005 0.002 0.005 0.001 0.005	0.05 0.05 0.05 0.05 0.05 0.05 0.001 0.05	0.0092 0.0073 0 0 0 0.0752 0	104 104 102 107 106 103 80 94	75 75 75 75 75 75 75 75	125 125 125 125 125 125 125 125			
Sample Matrix Spike Duplicate		Туре М	SD Te	est Code: EF	A Meti	hod 200.8				
File ID: 023_				atch ID: 3196			Analysis	Date:	11/12/2013 15:32	
Sample ID: 13110849-05AMSD	Units : mg/L			P/MS_13111			Prep Dat	te:	11/12/2013 13:43	
Analyte	Result	PQL		SpkRefVal		LCL(ME)	UCL(ME) RF	PDRefV	/al %RPD(Limit)	Qual
Chromium (Cr), Dissolved Arsenic (As), Dissolved Selenium (Se), Dissolved Silver (Ag), Dissolved Cadmium (Cd), Dissolved Barium (Ba), Dissolved Mercury (Hg), Dissolved Lead (Pb), Dissolved	0.0557 0.0654 0.0625 0.0564 0.0565 0.131 0.0008 0.0504	0.01 0.005 0.005 0.005 0.002 0.005 0.001 0.005	0.05 0.05 0.05 0.05 0.05 0.05 0.001	0.0092 0.0073 0 0 0 0.0752 0	111 112 110 113 113 111 80 101	75 75 75 75 75 75 75 75	125 125 125 125 125 125 125 125 125	0.0518 0.0612 0.058 0.0533 0.0529 0.1268 0.0008 0.047	2 6.6(20) 1 7.3(20) 3 5.7(20) 9 6.6(20) 5 3.4(20) 8 0.0(20)	



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Date:	OC Summary Report	Work Order:
15-Nov-13		13110849

Comments:



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Date: 19-Nov-13	(QC Summary Report								
Method Blank		Type M	IBLK T	est Code: EP	A Meti	hod 625/S	W8270C			
File ID: 13111305.D			Ва	atch ID: 3195	9		Analysi	s Date:	11/13/2013 17:51	
Sample ID: MBLK-31959	Units : µg/L		Run ID: M:	SD_16_1311	A80		Prep D	ate:	11/08/2013 13:11	
Analyte	Result	PQL				LCL(ME)	UCL(ME) F		al %RPD(Limit)	Qual
Naphthalene	ND	0.02	•							
2-Methylnaphthalene	ND	0.02								
1-Methylnaphthalene	ND	0.02								
Acenaphthylene	ND	0.02								
Acenaphthene	ND	0.02								
Fluorene	ND	0.02								
Phenanthrene	ND	0.02								
Anthracene	ND	0.02								
Fluoranthene	ND	0.02								
Pyrene Ponza(a)anthmagna	ND	0.02								
Benzo(a)anthracene Chrysene	ND ND	0.02								
Benzo(b&k)fluoranthene, isomeric pair	ND ND	0.02 0.04								
Benzo(a)pyrene	ND ND	0.04								
Indeno(1,2,3-cd)pyrene	ND	0.02								
Dibenz(a,h)anthracene	ND	0.02								
Benzo(g,h,i)perylene	ND	0.02								
Surr: 2-Fluorobiphenyl	0.181		0.25		73	12	143			
Surr: 4-Terphenyl-d14	0.202		0.25		81	30	159			
Laboratory Control Spike		Type L	.cs T	est Code: EP	A Met	hod 625/S	W8270C			
File ID: 13111505.D		76		atch ID: 3195				is Date:	11/15/2013 16:12	
Sample ID: LCS-31959	Units : µg/L			SD_16_1311			Prep D		11/08/2013 13:11	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Qual
				Opkitoivai				11 511511	<u> </u>	
Acenaphthene Pyrene	0.142	0.02			57 52	32 33	130 130			
Sur: 2-Fluorobiphenyl	0.131 0.211	0.02	9 0.25 0.25		85	33 12	143			
Surr: 4-Terphenyl-d14	0.191		0.25		76	30	159			
	0.131	T		6. 4 55						·
Sample Matrix Spike		Type N		est Code: EF		nod 625/5		:- Data:	44/45/0042 47:04	
File ID: 13111507.D				atch ID: 3195			•		11/15/2013 17:04	
Sample ID: 13110722-02AMS	Units : µg/L			\$D_16_1311			Prep D		11/08/2013 13:11	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRefV	/al %RPD(Limit)	Qual
Acenaphthene	0.32	0.04	0.5	0	64	8	130			
Pyrene	0.338	0.04			68	7	147			
Surr: 2-Fluorobiphenyl	0.384		0.5		77	12	143			
Surr: 4-Terphenyl-d14	0.459		0.5		92	30	159			
Sample Matrix Spike Duplicate		Type N	MSD T	est Code: EF	A Met	hod 625/S	W8270C			
File ID: 13111508.D				atch ID: 3195				is Date:	11/15/2013 17:30	
Sample ID: 13110722-02AMSD	Units : µg/L			SD_16_1311			Prep D		11/08/2013 13:11	
Analyte	Result	PQL				LCL(MF)	•		/al %RPD(Limit)	Qual
								0.320		
Acenaphthene Puropa	0.296	0.04			0	8 7	130 147	0.320		
Pyrene Surr: 2-Fluorobiphenyl	0.2 71 0.343	0.04			0 69	, 12	147	0.557	J 21.0(40)	
Surr: 4-Terphenyl-d14	0.343		0.5 0.5		73	30	159			
Out. 4- Felphenyru 14	0.304		0.5		13	30				

Comments:



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Date: 18-Nov-13		(Work Order: 13110849								
Method Blank File ID: 1A110713	346.D		Type: N		est Code: EP atch ID: 3195		hod SW80	Analysis I		11/08/2013 13:20	
Sample ID: M	IBLK-31954	Units : mg/M	(g		D_1_131108			Prep Date		11/08/2013 10:03	
Analyte		Result	PQL	SpkVal	SpkRefVal ⁹	%REC	LCL(ME)	UCL(ME) RPI	DRefVa	al %RPD(Limit)	Qual
TPH-E (DRO) TPH-E (ORO) Surr: Nonane		ND ND 6.76	10 10			113	65	160			
Sun. Nonane		0.76			· · · · · · · · · · · · · · · · · · ·						
Laboratory Co File ID: 1A110713	•	Type: LCS Test Code: EPA Method SW8015B/C Ext Batch ID: 31954 Analysis Date:						Date: 1	11/08/2013 13:46		
Sample ID: Lo	CS-31954	Units : mg/k	(g	Run ID: FI	D_1_131108	A		Prep Date	e: 1	11/08/2013 10:03	
Analyte		Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) RP	DRefVa	al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		93 6.51	5	5 100 6		93 109	70 65	130 160			
Sample Matrix	Spike		Type: N	AS T	est Code: EP	A Met	hod SW80	15B/C Ext			
File ID: 1A110713	•			В	atch ID: 3195	4		Analysis l	Date: 1	11/08/2013 16:38	
Sample ID: 13	3110840-03AMS	Units : mg/k	⟨ g	Run ID: FI	D_1_131108	A		Prep Date	e: '	11/08/2013 10:03	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RP	DRefVa	al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		103 7.51	5		0	103 125	46 65	150 160	****		
Sample Matrix	Spike Duplicate		Type: N	ASD T	est Code: EP	A Met	hod SW80	15B/C Ext			
File ID: 1A110713	-		•	В	atch ID: 3195	4		Analysis	Date: 1	11/08/2013 17:04	
Sample ID: 1	3110840-03AMSD	Units : mg/l	(g	Run ID: FI	D_1_131108	A		Prep Date	e: '	11/08/2013 10:03	
Analyte		Result	PQL				LCL(ME)	UCL(ME) RP	DRefVa	al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		97.8 6.74	ţ	5 100	0	98 112	46 65	150 16 0	102.8	5.0(42)	

Comments:



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Date: 18-Nov-13		(QC Si	ummar	y Report			Work Orde 13110849	
Method Blan File ID: 2A1107			Type: M		est Code: EPA I	Method SW80	· -	11/08/2013 17:31	
Sample ID:	MBLK-31961	Units : mg/L			D_2_131108A		Prep Date:	11/08/2013 16:11	
Analyte		Result	PQL	SpkVal	SpkRefVal %F	REC LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-E (DRO) TPH-E (ORO) Surr: Nonane		ND ND 0.21	0.5 0.5		1.	40 53	145		
	0 416.9		Type: L		est Code: EPA				
File ID: 2A1107	Control Spike 71366.D LCS-31961		туре. L	Ва	atch ID: 31961	METHOD 2440		11/08/2013 17:56	
Sample ID: Analyte	LCS-31961	Units : mg/L Result	PQL		D_2_131108A SpkRefVal_%F	REC LCL(ME)	UCL(ME) RPDRef		Qual
TPH-E (DRO) Surr: Nonane		2.23 0.174	0.05	5 2. 5 0.15	_	39 70 16 53	130 145		
Sample Matr	-		Type: N		est Code: EPA	Method SW8		: 11/08/2013 19:39	
Sample ID:	13110605-02AMS	Units : mg/L		Run ID: FI	D_2_131108A	DEC LOL(ME)	Prep Date:	11/08/2013 16:11	Qual
Analyte TPH-E (DRO) Surr: Nonane	·	2.38 0.154	PQL 0.05	·	0 9	95 51 03 53	UCL(ME) RPDRet 151 145	IVAI /6RFD(LIIIII)	- Guai
Sample Matr	rix Spike Duplicate		Type: N	ASD T	est Code: EPA	Method SW8	015B/C Ext		
File ID: 2A1107			•	В	atch ID: 31961		Analysis Date	11/08/2013 20:04	
Sample ID:	13110605-02AMSD	Units : mg/L		Run ID: Fi	D_2_131108A		Prep Date:	11/08/2013 16:11	
Analyte		Result	PQL	SpkVal	SpkRefVal %F	REC LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.33 0.167	0.05	5 2.5 0.15		93 51 11 53	151 2.38 145	34 2.3(40)	

Comments:



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Date: 18-Nov-13		QC S	ummar	y Report			Work Orde 13110849	
Method Blank		Type: I	MBLK T	est Code: EPA Me	thod SW8	015B/C / SW8260E	J	
File ID: 13111234.D			Ва	atch ID: MS08S196	59B	Analysis Date	11/13/2013 00:56	
Sample ID: MBLK MS08S1969B	Units : mg/l	≺a	Run ID: M:	SD 08 131112B		Prep Date:	11/13/2013 00:56	
Analyte	Result	PQL		- -	C LCL(ME) UCL(ME) RPDRe	Val %RPD(Limit)	Qual
TPH-P (GRO)	ND	1						-
Surr: 1,2-Dichloroethane-d4	0.19		0.2	95	70	130		
Surr: Toluene-d8	0.238		0.2	119	70	130		
Surr: 4-Bromofluorobenzene	0.189		0.2	95	70	130		
Laboratory Control Spike		Type: I	LCS T	est Code: EPA Me	thod SW8	015B/C / SW8260E	1	
File ID: 13111251.D			Ba	atch ID: MS08S19	69B	Analysis Date	: 11/13/2013 08:07	
Sample ID: GLCS MS08S1969B	Units : mg/l	Kg	Run ID: M	SD_08_131112B		Prep Date:	11/13/2013 08:07	
Analyte	Result	PQL	SpkVal	SpkRefVal %RE0	C LCL(ME) UCL(ME) RPDRe	Val %RPD(Limit)	Qual
TPH-P (GRO)	14.6		2 16	91	63	149	•	
Surr: 1,2-Dichloroethane-d4	0.358		0.4	89	70	130		
Surr: Toluene-d8	0.407		0.4	102	70	130		
Surr: 4-Bromofluorobenzene	0.448		0.4	112	70	130		
Sample Matrix Spike		Type: I	MS T	est Code: EPA Me	thod SW8	015B/C / SW8260E	3	
File (D: 13111252.D			В	atch ID: MS08S19	69B	Analysis Date	: 11/13/2013 08:32	
Sample ID: 13110849-03AGS	Units: mg/	Kg	Run ID: M	SD_08_131112B		Prep Date:	11/13/2013 08:32	
Analyte	Result	PQL	SpkVal	SpkRefVal %RE	C LCL(ME) UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO)	13.7		2 16		36	164		
Surr: 1,2-Dichloroethane-d4	0.352		0.4	88	70	130		
Surr: Toluene-d8	0.405		0.4	101	70	130		
Surr: 4-Bromofluorobenzene	0.454		0.4	113	70	130	-	
Sample Matrix Spike Duplicate		Type: I	MSD T	est Code: EPA Me	thod SW8	015B/C / SW8260E		
File ID: 13111253.D			В	atch ID: MS08S19	69B	Analysis Date	: 11/13/2013 08:58	
Sample ID: 13110849-03AGSD	Units : mg/	Kg	Run ID: M	SD_08_131112B		Prep Date:	11/13/2013 08:58	
Analyte	Result	PQL	Spk∀al	SpkRefVal %RE	C LCL(ME) UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO)	19.1		2 16	0 119	36	164 13.0	32.8(40)	
Surr: 1,2-Dichloroethane-d4	0.348		0.4	87	70	130		
Surr: Toluene-d8	0.404		0.4	101	70	130		
Surr: 4-Bromofluorobenzene	0.457		0.4	114	70	130		

Comments:



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Date: 18-Nov-13	(QC Si	ımmar	y Repor	t			Work Orde 13110849	
Method Blank File ID: 13111205.D		Type: N		est Code: EF			15B/C / SW8260B Analysis Date:	11/12/2013 13:00	
Sample ID: MBLK MS15W1112B	Units : mg/L		Run ID: MS	SD 15_1311	12A		Prep Date:	11/12/2013 13:00	
Analyte	Result	PQL		 -		LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO)	ND	0.5	-						
Surr: 1,2-Dichloroethane-d4	0.0104		0.01		104	70	130		
Surr: Toluene-d8	0.0105		0.01		105	70	130		
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130		
Laboratory Control Spike		Type: L	CS Te	est Code: EF	A Meth	od SW80	15B/C / SW8260E	1	
File ID: 13111203.D			Ва	atch ID: MS1	5W111	2B	Analysis Date	11/12/2013 12:11	
Sample ID: GLCS MS15W1112B	Units : mg/L		Run ID: M	SD_15_1311	12A		Prep Date:	11/12/2013 12:11	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRet	Val %RPD(Limit)	Qual
TPH-P (GRO)	0.456	0.05	0.4		114	70	130		
Surr: 1,2-Dichloroethane-d4	0.0102		0.01		102	70	130		
Surr: Toluene-d8	0.00992		0.01		99	70	130		
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130		
Sample Matrix Spike		Type: N	IS To	est Code: EF	A Meti	nod SW80	15B/C / SW8260E	1	
File ID: 13111228.D			Ba	atch ID: MS1	5W111	2B	Analysis Date	11/12/2013 21:20	
Sample ID: 13111173-02AGS	Units : mg/L			SD_15_1311			Prep Date:	11/12/2013 21:20	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO)	1.96	0.25	_	0	98	54	143		
Surr: 1,2-Dichloroethane-d4	0.0493		0.05		99	70	130		
Surr: Toluene-d8	0.0494		0.05		99	70	130		
Surr: 4-Bromofluorobenzene	0.052		0.05		104	70	130		
Sample Matrix Spike Duplicate		Type: N	ISD T	est Code: El	PA Meti	hod SW80	15B/C / SW8260E		
File ID: 13111229.D			В	atch ID: MS1	5W111	2B	Analysis Date	11/12/2013 21:42	
Sample ID: 13111173-02AGSD	Units : mg/L		Run ID: M	SD_15_1311	12A		Prep Date:	11/12/2013 21:42	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual
TPH-P (GRO)	2.14	0.25	5 2	0	107	54	14 3 1.9	6 8.6(23)	
Surr: 1,2-Dichloroethane-d4	0.0497		0.05		99	70	130		
Surr: Toluene-d8	0.0499		0.05		99.7	70	130		
Surr: 4-Bromofluorobenzene	0.0521		0.05		104	70	130		

Comments:



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Date: 18-Nov-13	(QC Su	ımmary	Report			Work Orde 13110849	
Method Blank		Type: Mi		st Code: EPA Meth			11110100101010	_
File ID: 13111205.D			Ba	tch ID: MS15W111	2A	Analysis Date	e: 11/12/2013 13:00	
Sample ID: MBLK MS15W1112A	Units : µg/L		Run ID: MS	D_15_131112A		Prep Date:	11/12/2013 13:00	
Analyte	Result	PQL	SpkVal	SpkRefVal %REC	LCL(ME)	UCL(ME) RPDRe	efVal %RPD(Limit)	Qual
Chloromethane	ND	2	•	<u> </u>				
Vinyl chloride	ND	1						
Chloroethane	ND	i						
Bromomethane	ND	2						
Trichlorofluoromethane	ND	1						
1,1-Dichloroethene	ND	1						
Dichloromethane	ND	2						
trans-1,2-Dichloroethene	ND	1						
1,1-Dichloroethane	ND	1		•				
cis-1,2-Dichloroethene	ND	1						
Chloroform	ND	1						
1,2-Dichloroethane	ND	1						
1,1,1-Trichloroethane	ND	1						
Carbon tetrachloride	ND	1						
Benzene	ND	1						
1,2-Dichloropropane	ND	1						
Trichloroethene	ND	1						
Bromodichloromethane	ND	1						
cis-1,3-Dichloropropene	ND	1						
trans-1,3-Dichloropropene	ND	1						
1,1,2-Trichloroethane	ND	1						
Toluene	ND	1						
Dibromochloromethane	ND	1						
Tetrachloroethene	ND	1						
Chlorobenzene	ND ND	- 1						
Ethylbenzene	ND ND	1						
m,p-Xylene	ND ND	1						
Bromoform	ND	1						
o-Xylene 1,1,2,2-Tetrachioroethane	ND ND	1						
1,3-Dichlorobenzene	ND	1						
1,4-Dichlorobenzene	ND	1						
1,2-Dichlorobenzene	ND	1						
Surr: 1,2-Dichloroethane-d4	10.4	'	10	104	7 0	130		
Surr: Toluene-d8	10.5		10	105	70	130		
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130		
		T		est Code: EPA Met	CM/07	EOD		
Laboratory Control Spike		Type: L					44400004044440	
File ID: 13111202.D			Ba	atch ID: MS15W111	2A	-	e: 11/12/2013 11:49	
Sample ID: LCS MS15W1112A	Units : µg/L		Run ID: MS	SD_15_131112A		Prep Date:	11/12/2013 11:49	
Analyte	Result	PQL	SpkVal	SpkRefVal %REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qua
1,1-Dichloroethene	11.2	1	10	112	80	120		
Benzene	10.9	0.5		109	70	130		
Trichloroethene	10.4	1		104	68	138		
Toluene	9.9	0.5		99	80	120		
Chlorobenzene	10.1	1		101	70	130		
Ethylbenzene	10.6	0.5		106	80	120		
m,p-Xylene	10.8	0.5		108	65	139		
o-Xylene	11.1	0.5		111	70	130		
Surr: 1,2-Dichloroethane-d4	11.5		10	115	70	130		
Surr: Toluene-d8	9.53		10	95	70	130		
Surr: 4-Bromofluorobenzene	10		10	100	70	130		



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Date: 18-Nov-13	()C Su	mmar	y Repor	t				Work Orde 13110849	
Sample Matrix Spike File ID: 13111226.D		Type: MS		est Code: EF				Date: 1	1/12/2013 20:37	
Sample ID: 13110849-12AMS	Units : µg/L	F	Run ID: M	SD_15_1311	12A		Prep Da	te: 1	1/12/2013 20:37	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RE	PDRefVa	l %RPD(Limit)	Qual
1,1-Dichloroethene	44.9	2.5	50	0	90	62	133			
Benzene	49	1.3	50	0	98	67	134			
Trichloroethene	46.2	2.5	50	0	92	68	138			
Toluene	46.2	1.3	50	0	92	38	130			
Chlorobenzene	46.2	2.5	50	0	92	7 0	130			
Ethylbenzene	47	1.3	50	0	94	70	1 30			
m,p-Xylene	49	1.3	50	0	98	65	139			
o-Xylene	51.1	1.3	50	0	102	69	130			
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	52.3		50		105	70	130			<u> </u>
Sample Matrix Spike Duplicate		Туре: М \$	SD T	est Code: El	PA Met	hod SW82	-			
File ID: 13111227.D			B	atch ID: MS1	I5W111	12A	Analysis	Date: 1	11/12/2013 20:59	
Sample ID: 13110849-12AMSD	Units : µg/L	F	Run ID: M	SD_15_131 ⁴	112A		Prep Da	ite: 1	11/12/2013 20:59	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) R	PDRefVa	al %RPD(Limit)	Qual
1,1-Dichloroethene	50.4	2.5	50	0	101	62	133	44.89	11.6(35)	
Benzene	54.2	1.3	50	0	108	67	134	49.04	9.9(21)	
Trichloroethene	52. 4	2.5	50	0	105	68	138	46.15	12.6(20)	
Toluene	52.5	1.3	50	0	105	38	130	46.16	12.8(20)	
Chlorobenzene	51.9	2.5	50	0	104	70	130	46.22	11.5(20)	
Ethylbenzene	52.9	1.3	50	0	106	70	130	46.96	11.8(20)	
m,p-Xylene	54.6	1.3	50	0	109	65	139	48.96	10.9(20)	
o-Xylene	56.3	1.3	50	0		69	130	51.11	9.7(20)	
Surr: 1,2-Dichloroethane-d4	54		50		108	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	51.5		50		103	70	130			

Comments:

4840 Mill Street, Suite 5

Reno, NV 89502

Client:

4840 Mill Street, Suite 5 Converse

Client's COC #: 13450 PO: 08-73103-01/02-07

Job :

08-73103-01/02-07/Carlin Brownfields RRF

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 1 of 6

Alpha Analytical, Inc

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

> Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110849

Report Attention Phone Number **EMail Address**

(775) 284-9752 x

Kathi Brandmueller

kbrandmueller@converseconsultants | EDD Required : No

Sampled by : Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed 08-Nov-13

Alpha Sample ID QC Level: S3 CON13110849-08A B-8@7ft CON13110849-07A CON13110849-03A CON13110849-02A B-7@8ft CON13110849-01A B-7@4ft CON13110849-09A CON13110849-06A CON13110849-05A CON13110849-04A B-7@12ft B-8@4ft B-7A@12ft B-9@4ft B-7A B-7 Sample ID = Final Rpt, MBLK, LCS, MS/MSD With Surrogates S S S S å å S S Matrix Date 11/07/13 13:00 11/07/13 12:53 11/07/13 11:27 11/07/13 11/07/13 12:32 11/07/13 12:30 11/07/13 11:34 11/07/13 Collection No. of Bottles 11/07/13 12:50 11:35 Alpha Sub ယ ω ω ω O O ω 4 ω 0 0 0 C C c 0 0 Ž o 6 o 6 O. 6 6 σ σ HOLD Hold Hold Ы Hold METALS_A METALS_D METALS_S PNA_SIM_ As, Ba, Cd. Cr. Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se Requested Tests MS MIS TPH/E_S TPH/E_N TPH/E_N TPH/E_N S_d/Hd1 M_3/Hd1 GAS-N GAS-N 1-probe, 3-25 gram Encores MS/MSD 1-probe, 2-25 gram Encores Sample Remarks

Comments: Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice, Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for VOCs on sample -12A confirmed per phone conversation with Kathi @ 16:04.

Logged in by:	
	Signature
SasahuNui	Print Name
Alpha Analytical, Inc.	Company
118/13/16/3	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Client:

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13

WorkOrder: CONR13110849

Z <

Page: 2 of 6

Report Attention Phone Number **EMail Address**

Kathi Brandmueller

EDD Required: No

(775) 284-9752 x kbrandmueller@converseconsultants

Sampled by : Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13

QC Level: S3 Client's COC #: 13450 PO: 08-73103-01/02-07 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Job: 08-73103-01/02-07/Carlin Brownfields RRP Date Printed 08-Nov-13

Sample ID CON13110849-17A B-11@4ft CON13110849-16A B-10@16ft CON13110849-15A B-10@12ft CON13110849-14A B-10@8ft CON13110849-13A B-10@4ft CON13110849-12A B-9 CON13110849-11A B-9@12ft CON13110849-10A B-9@8ft CON13110849-18A B-11@8ft Sample ID SO S Matrix Date S S SO SO å SO S 11/07/13 13:53 11/07/13 13:48 11/07/13 13:40 11/07/13 13:25 Collection No. of Bottles 11/07/13 11/07/13 11/07/13 11/07/13 11/07/13 14:23 14:20 13:10 Alpha Sub 9 4 ω ω ω 0 0 0 0 0 0 0 0 0 ΤAΤ σ 6 O 6 σ 0 σ Ø O HOLD Hold Hold Hold Hold Hold 된 METALS_A METALS_D METALS_S PNA_SIM_ TPHIE_S As, Ba, Cd, Cr, Pb, Hg, Ag, Se As, Ba, Cd, Ct, Pb, Hg, Ag, Se As, Ba, Cd, Cr, Pb, Hg, Ag, Se Requested Tests MIS TPH/E_N TPH/E_N TPH/E W TPH/P_S GAS-N GAS-N 1-probe, 2-25 gram Encores MS/MSD 1-probe, 2-25 gram Encores MS/MSD for VOCs. Sample Remarks

Comments: possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for YOCs on sample -12A confirmed per phone conversation with Kathi @ 16:04 Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for

Logged in by:	
	Signature
My mings	Print Name
Alpha Analytical, Inc.	Company
5101 51/8/11	Date/Time

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Client:

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

> Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110849

Page: 3 of 6

Report Attention Kathi Brandmueller Phone Number **EMail Address**

(775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No

Sampled by : Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed 08-Nov-13

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

08-73103-01/02-07/Carlin Brownfields RRP

Client's COC #: 13450 PO: 08-73103-01/02-07

										Requested Tests	d Tests				
Alpha Client	R.	ប	Collection No. of Bottles	No. of	Bottles		HOLD	METALS_A METALS_D		WIS VNA S STATAM	PNA_SIM_	TPH/E_S	TPH/E_W	TPH/P_S	
ਜ ਹ	e ID	Matrix Date		Alpha Sub		TAT		۵	s	c	*	:			Sample Remarks
CON13110849-19A B-11@12ft		SO 1	11/07/13	ω	0	6				As, Ba, Cd, Cr, Ph, Hg, Ag, Se		TPH/E_N		GAS-N	1-probe received, 2-25 gram Encores
CON13110849-20A B-11@15ft		SO 1	11/07/13	ω	0	6				As, Ba, Cd, Ct, Pb, Hg,		TPH/E_N		GAS-N	1-probe received, 2-25 gram Encores
-	•		1.00							Ag, Se					
CON13110849-21A B-11		δ	11/07/13 15:00	6	0	6			As, Ba, Cd, Cr, Pb, Hg, Ag, Se		SIM				
CON13110849-22A Field Blank		ΑΩ —1	11/07/13 15:18	9	0	6		As, Ba, Cd, Cr, Pb, Hg, Ag, Se	į		SIM		TPH/E_N		
CON13110849-23A B-12@4ft		SO 1	11/07/13 15:20	ω	0	6	Hold								1-probe, 2-25 gram Encores
CON13110849-24A B-12@7ft		SO 1	11/07/13 15:24	ω	0	6				As, Ba, Cd, Cr, Pb, Hg, Ag, Se		TPH/E_N	ļ 	GAS-N	1-probe, 2-25 gram Encores

Comments:

possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for YOCs on sample -12A confirmed per phone conversation with Kathi @ 16.04. Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for

Logged in by:	
	Signature
Saul Nin	Print Name
Alpha Analytical, Inc.	Company
5/101 5/18/11	Date/Time

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Client

Converse

4840 Mill Street, Suite 5

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Kathi Brandmueller (775) 284-9752 x Phone Number kbrandmueller@converseconsultants | EDD Required : No EMail Address

Reno, NV 89502

Client's COC #: 13450 08-73103-01/02-07

QC Level: S3

= Final Rpt, MBLK, LCS, MS/MSD With Surrogates

08-73103-01/02-07/Carlin Brownfields RRP

Z

Page: 4 of 6

WorkOrder: CONR13110849

Report Due By: 5:00 PM On: 18-Nov-13

Sampled by: Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed 08-Nov-13

									Requested Tests	ests		
Alpha	Client		Collection	No. of	No. of Bottles		TPH/P_W	VOC_W				
Sample ID	Sample ID	Matri	Matrix Date	Alpha	Sub	TAT		*·				Sample Remarks
CON13110849-01A B-7@4ft	B-7@4ft	SO	11/07/13	ω	0	6						1-probe, 2-25 gram Encores
CON13110849-02A	B-7@8ft	OS	11/07/13 11:27	ω	0	6						1-probe, 2-25 gram Encores
CON13110849-03A	B-7@12ft	so	11/07/13 11:34	4	0	6				_		1-probe, 3-25 gram Encores MS/MSD
CON13110849-04A	B-7A@12ft	so	11/07/13	ω	0	6						1-probe, 2-25 gram Encores
CON13110849-05A	B-7	å	11/07/13 12:30	6	0	6		8260_Ns				
CON13110849-06A	B-7A	AQ	11/07/13 12:32	6	0	6		8260_Ns				
CON13110849-07A	B-8@4ft	os	11/07/13 12:50	<u></u> ယ	0	6		<u></u>				1-probe, 2-25 gram Encores
CON13110849-08A	B-8@7ft	so	11/07/13 12:53	3	0	6						1-probe, 2-25 gram Encores
CON13110849-09A	в-9@4ft	so	11/07/13 13:00	သ	0	<u></u> თ						1-probe, 2-25 gram Encores
CON13110849-10A	B-9@8ft	so	11/07/13 13:05	ა 	0	6						1-probe, 2-25 gram Encores
Comments:	Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on h possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for VOCs on sample: -12A confirmed per phone conversation with Kathi @ 16:04.	t. Secur	nty seals intact	Frozen	ice. Ence 22A & ar	ores rece	ived on dry SD for VO	ice. Please filter a Os on sample -12/	nd preserve dissolv	ed metals in l	lab. Encores placed on ho ion with Kathi @ 16:04.	Samples brought in by client. Security scals intact. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for VQCs on sample: -12A confirmed per phone conversation with Kathi @ 16:04.
	POSSIDIE IGET GHATASIS OF 070	JO. 100	at invais for so	milyio	LL/1 00 mi	10.19(10/10)	101 7	o ou outiloto	A COMMITTEE POR			

Logged in by: NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Alpha Analytical, Inc.

Print Name

Company

Date/Time

Signature

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Converse 4840 Mill Street, Suite 5

Client's COC #: 13450

Reno, NV 89502

08-73103-01/02-07

CHAIN-OF-CUSTODY RECORD

Z

Page: 5 of 6

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110849

Report Attention Kathi Brandmueller Phone Number (775) 284-9752 x EMail Address

kbrandmueller@converseconsultants | EDD Required : No

Sampled by : Frank M. Reynolds III, Kathi Brand Cooler Temp Samples Received

08-73103-01/02-07/Carlin Brownfields RRP 08-Nov-13 Date Printed 08-Nov-13

Alpha Sample ID QC Level: S3 CON13110849-19A B-11@12ft CON13110849-18A B-11@8ft CON13110849-17A B-11@4ft CON13110849-16A B-10@16ft CON13110849-15A B-10@12ft CON13110849-14A B-10@8ft CON13110849-13A B-10@4ft CON13110849-12A B-9 CON13110849-11A B-9@12ft CON13110849-20A B-11@15ft Sample ID = Final Rpt, MBLK, LCS, MS/MSD With Surrogates SO S SO 11/07/13 14:38 SO SO SO SO 11/07/13 13:53 SO | 11/07/13 | 13:48 å Matrix Date 11/07/13 14:20 11/07/13 13:40 11/07/13 13:25 11/07/13 14:23 11/07/13 Collection No. of Bottles 11/07/13 11/07/13 13:45 14:28 Alpha Sub ω φ ω 0 0 0 0 0 0 0 0 0 0 ΤĄΤ Φ o 6 o, O 6 6 6 6 O M d/Hdl VOC W 8260 Ns **Requested Tests** 1-probe received, 2-25 gram 1-probe received, 2-25 gram 1-probe, 2-25 gram Encores 1-probe, 2-25 gram Encores 1-probe, 2-25 gram Encores 1-probe, 2-25 gram Encores MS/MSD 1-probe, 2-25 gram Encores MS/MSD for VOCs. Sample Remarks Encores Encores

Comments: Logged in by: Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice. Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for VOCs on sample -12A confirmed per phone conversation with Kathi @ 16:04. Signature ANNIX. Print Name Alpha Analytical, Inc. Company 21|8|13 Date/Time

Converse

4840 Mill Street, Suite 5

Reno, NV 89502

Client:

4840 Mill Street, Suite 5 Converse

Reno, NV 89502

CHAIN-OF-CUSTODY RECORD

Z

Page: 6 of 6

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

> Report Due By: 5:00 PM On: 18-Nov-13 WorkOrder: CONR13110849

Report Attention Phone Number EMail Address

Kathi Brandmueller (775) 284-9752 x kbrandmueller@converseconsultants | EDD Required : No

Sampled by : Frank M. Reynolds III, Kathi Brand

Cooler Temp Samples Received 08-Nov-13 Date Printed

QC Level: S3 Client's COC #: 13450 08-73103-01/02-07 Final Rpt, MBLK, LCS, MS/MSD With Surrogates Job: 08-73103-01/02-07/Carlin Brownfields RRP

Alpha Sample ID CON13110849-24A B-12@7ft CON13110849-22A Field Blank CON13110849-21A B-11 CON13110849-23A B-12@4ft Client Sample ID SO SO 11/07/13 15:20 Š å Matrix Date 11/07/13 15:24 11/07/13 15:18 11/07/13 15:00 Collection No. of Bottles Alpha Sub ω 0 0 0 ΤAΤ თ o σ σ TPH/P_W GAS-N VOC_W 8260_Ns 8260_Ns Requested Tests 1-probe, 2-25 gram Encores 1-probe, 2-25 gram Encores Sample Remarks

Comments: Samples brought in by client. Security seals intact. Frozen ice. Encores received on dry ice, Please filter and preserve dissolved metals in lab. Encores placed on hold kept frozen and secure for possible later analysis of 8260. Total metals for sample: -22A & and MS/MSD for VOCs on sample -12A confirmed per phone conversation with Kathi @ 16:04.

Logged in by:	
	Signature
Samul Nois	Print Name
Alpha Analytical, Inc.	Company
11/8/13 16/5	Date/Time

Converse Kethi Brandmuller 4840 Mill St. #5 There NV 89707 Ths. 856-383500

Phone Number: City, State, Zip: Address: Company:

Alpha Analytical, inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA. 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

> Phone: 775-355-1044 Fax 775-355-0406

Phone: 916-366-9089 Phone: 714-386-2901 Phone: 702-281-4848

13450

Page #	
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6917	Date: 1/1 B /1 3	Received by Signature/Affiliation): Received by Signature/Affiliation): Received by Signature/Affiliation):	Time: Receiv	11/8/13 Date:	Relinquished by (Signature/Affiliation): Relinquished by (Signature/Affiliation):
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Remarks		Antiquis Requested			
Q <	Global ID: Data Validation Level:		各・73[03-0]/0みつ ille Other	P.O. # OC	City, State, Zip: Samples Collected from which State? (circle one) AZ C/K
EDF Required? Yes / No	EDD Required? Yes / No	Email Address:	1) Mourields 7	Job #	Company:

eceived by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

<u>ير</u> . Address Phone Number: ¥ Company * Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples. 83 Time Sampled (HHMM) Samples Collected from which State? (circle one) City, State, Zip Company City, State, Zip: Address: Relinquished by: (Signature/Affiliation) ADDITIONAL INSTRUCTIONS: 15:16 15:00 (field sampler) attest to the validity and authenticity of this sample(s). I am eware that tampering with or intentionally might 13:4 117/13 OF Date Matrix*
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Job - 13 103 -01 /03-07 Name:

Job Name: Con 110 105 Conon 41 told 5 KR 7 Email Address: Sample Description (d) Blank DOD Site Other 1 () Time S labeling the san Received by: (Signature/Affiliation): Received by: (Signature/Affiliation): 未 ξ Northern CA: 9691 Horn Road, Suite C. Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90748 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 $g_{\rm s}^{\rm d}$ location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2) Phone #: Cell # TAH (EAD) Satellite Service Centers: I O Report Attention/Project Manager: 100 10 オのアゼ VOC 4017 FRANK IA. 0 Musey/sa × RCRA Matals (8) Soil RCRAS Destus KOT MOUDS Phone: 702-281-4848 Phone: 775-355-1044 Phone: 714-386-2801 Fax 916-366-9089 775-355-0406 EDD Required? Yes / No Data Validation Level: Date QC Deliverable Info: 13451 Preserve Active one CXX 8 117 EDF Required? Yes / No Time 믁 8011 407 7

160 QH/QC

Alpha Analytical, Inc.

received by the Jaboratory with this COC. The liability of the Jaboratory is limited to the amount paid for the report

QA/QC Memorandum

Appendix C

DATE: November 21, 2013

TO: Kathi Brandmueller

Converse Consultants

FROM: Sara Thacker

Converse Consultants

SUBJECT: City of Carlin Phase II Brownfields Project - Level II Data Validation

Memorandum - Analytical Reports from:

o Alpha Analytical, Inc. dated November 15, 2013; and November 18, 2013.

INTRODUCTION

This Data Validation Memorandum summarizes the findings of a Level II data validation for analytical results of soil samples, duplicate soil samples, groundwater samples, duplicate water samples and field blank samples collected as part of a Phase II Environmental Site Assessment (ESA). The samples were collected from the following properties: Eklund Property 7th Street, Carlin Nevada, APNs: 002-220-041. Main Street Properties and City Right-of-Way, Carlin, Nevada, APNs: 002-182-006, 002-183-002 and 002-183-011.

Converse Consultants (Converse) prepared a Field Sampling Plan (FSP) for the sites located at: Eklund Property 7th Street, Carlin Nevada dated September 18, 2013, and approved by US EPA Region 9 on September 18, 2013. Main Street Properties and City Right-of-Way, Carlin, Nevada dated September 18, 2013, and approved by US EPA Region 9 on September 18, 2013.

The FSP provided a scope of the Phase II ESAs to address potential subsurface impact at the Site from historic activities identified during the Phase I Environmental Site Assessments (ESAs). A Quality Assurance Project Plan (QAPP), was prepared by Converse Consultants for the overall Brownfields Community-Wide Assessment project. The US EPA conditionally approved the QAPP, pending revisions, in a letter dated March 18, 2013, revisions were completed on March 19, 2013 and the QAPP was finalized. The FSPs were prepared in conjunction with the QAPP to provide an appropriate level of assurance regarding the reliability and usability of the data generated during the Phase II ESA.

Evaluation of Field Records

Field Documentation: Field logs and other documentation were reviewed regarding sampling procedures (e.g., sample containers, collection, preservation, packaging, transportation, receipt, handling and storage, chain of custody (COC), holding time, and decontamination procedures) conducted on: November 6, 2013 and November 7, 2013. Converse received notification from Alpha on November 8, 2013 of possible insufficient

volume for sample B-13, Lab ID: CON13110824-05A. Per Kathi Brandmueller, Alpha was asked to analyze sample B-13 for SVOC and metals if the sample volume allowed. Sample B-13 was later found to have sufficient volume for all requested analysis. Alpha also notified Converse of the cancellation of sample B-14@4' lab ID: CON13110824-37A due to these encores having been found to belong to sample B-13@4' Lab ID: CON13110824-02A, and the addition of sample B-4 lab ID: CON13110824-39A which was present but had not been added to the COC. Converse does not deem these changes as an issue.

All collected samples were received by Alpha within 49 hours of collection. Encore samples were frozen in the field and therefore had an extended holding time.

Summary of Amount and Type of Sample Collected

Between November 6, 2013 and November 7, 2013, Converse implemented the FSP. Sample collection is summarized below.

Sample Type	FSP (Request)	Actual Work	Comments
Soil Samples	60	54	The actual Soil, Soil
Collected			Duplicate, and
Soil Samples		22	Ground Water
Analyzed			samples differ from
Soil Duplicate	10%	3	the FSP. Based on
Analyzed			field conditions,
Ground Water	18	13	Converse finds the
Collected			number of samples
Groundwater			taken sufficient to
Samples Analyzed			the phase II
Ground Water	10%	3	objectives.
Duplicate Analyzed			
Field Blank	2	2	

- Twenty-two (22) of fifty-four (54) soil samples delivered to Alpha Analytical, Inc. (Alpha) were analyzed for: Purgeable and Extractable Total Petroleum Hydrocarbons (TPH) in accordance with EPA Test Method 8015B; and or VOCs in accordance with EPA Methods 8260B and or SVOCs in accordance with EPA Methods 8270C; and or Heavy Metals in accordance with EPA Method 6020/6020A; as per the chain of custody (COC) instructions.
- Three (3) soil sample duplicates delivered to Alpha were analyzed for: TPH in accordance with EPA Test Method 8015B; and or metals in accordance with EPA Method 6020/6020A as per the COC instructions. The number of soil sample duplicates met the 10 percent requirement as per the FSP.
- Thirteen (13) groundwater samples, and three (3) duplicate water samples



- delivered to Alpha were analyzed for: VOCs in accordance with EPA Method 8260B; SVOCs in accordance with EPA Methods 8270C; and metals in accordance with EPA Method 6020/6020A as per the COC instructions.
- Two (2) field blank samples delivered to Alpha were analyzed for: TPH in accordance with EPA Test Method 8015B; VOCs in accordance with EPA Methods 8260B; SVOCs in accordance with EPA Methods 8270C; and metals in accordance with EPA Method 6020/6020A as per the COC instructions as per the COC instructions.

Review of QC Information

Basic QC Procedures: Basic QC evaluation criteria include field decontamination, supplies, holding times, equipment calibration and maintenance, and standards. Field Decontamination: Non-dedicated sampling equipment was decontaminated before each sample was collected.

Supplies: All sampling supplies were certified clean by the suppliers, inspected by Converse prior to their use and monitored by Alpha through the use of standards and blank samples.

Holding Times: Compliance with holding time requirements was verified.

Field QC Samples: The FSPs called for 10 percent of the samples analyzed to be split in the field and a blank to be collected for ever day of field work for QC proposes. Field QC samples included two (2) field blanks, three (3) ground water duplicates, and three (3) duplicate soil samples (for assessment of sampling variability due to sampling technique, instrument performance or the heterogeneity of the matrix being sampled). Background Samples: Background samples were not collected.

Summary of Deviation

Field QC Samples (Field Duplicates): Three (3) soil samples were submitted to Alpha as field duplicates. The primary and duplicate soil samples were analyzed for TPH in accordance with EPA Test Method 8015M; and metals in accordance with EPA Method 6020/6020A. Three (3) ground water samples were submitted to Alpha as a field duplicates. The primary and duplicate ground water samples were analyzed for VOCs in accordance with EPA Methods 8260B; SVOCs in accordance with EPA Methods 8270C; and metals in accordance with EPA Method 6020/6020A.

A summary of the parameters detected in the field duplicates are presented below:

Matrix	Parameter	Sample ID	Sample ID	Results	Results			
		Primary	Duplicate	Primary	Duplicate	RPDs		
		Sample		Sample	Samples			
Water	VOC	B-15	B-15-A	ND	ND	0		
	SVOC:			_		-		
	Naphthalene			0.028µg/L	0.027µg/L	3.6%		
	1-			ND	0.022µg/L	1-		
	Methylnaphthalene							
	Metals:							
	Selenium			0.0052mg/L	ND	-		
	Barium			0.079mg/L	0.083mg/L	4.9%		
Water	VOC	B-4	B-4-A	ND	ND	0		
	SVOC:							
	Naphthalene			70μg/L	69µg/L	1.4%		
	2-			61µg/L	64µg/L	4.8%		
	Methylnaphthalene							
	1-			180µg/L	180µg/L	0		
	Methylnaphthalene							
	Acenaphthylene			2.3µg/L	4.4µg/L	<mark>62.7%</mark>		
	Acenaphthene			9.2μg/L	8.9µg/L	3.3%		
	Fluorene			18µg/L	19µg/L	5.4%		
	Phenanthrene			21µg/L	39µg/L	<mark>60%</mark>		
	Metals:							
	Arsenic			0.0067 mg/L	0.0051 mg/L	27.1%		
	Barium			0.23 mg/L	0.22 mg/L	4.4%		
Water	VOC	B-7	B-7-A	ND	ND	0		
	SVOC:							
	Naphthalene			0.039µg/L	ND	-		
	2-			0.040µg/L	ND	-		
	Methylnaphthalene							
	1-			0.031µg/L	0.022µg/L	<mark>34%</mark>		
	Methylnaphthalene							
	Metals:	T	1	1	•			
	Arsenic			0.0092 mg/L	0.0094 mg/L	2.2%		
	Selenium			0.0073 mg/L	0.0077mg/L	5.3%		
	Barium			0.075 mg/L	0.079 mg/L	5.2%		
Soil	TPH	B-7@12'	B-7A@12'	ND	ND	0		
	Metals:	T						
	Chromium			13 mg/Kg	15 mg/Kg	14.3%		

	Arsenic			7.7 mg/Kg	7.0 mg/Kg	9.5%			
	Barium			530 mg/Kg	410 mg/Kg	<mark>25.5%</mark>			
	Lead			9.8 mg/Kg	11 mg/Kg	11.5%			
Soil	TPH	B-15@8'	B-15A@8'	ND	ND	-			
	Metals:	Metals:							
	Chromium			15 mg/Kg	15 mg/Kg	0			
	Arsenic			8.4 mg/Kg	7.5 mg/Kg	11.3%			
	Selenium			ND	2.1 mg/Kg	-			
	Cadmium			ND	1.1 mg/Kg	-			
	Barium			550 mg/Kg	200 mg/Kg	<mark>93.3%</mark>			
	Lead			10 mg/Kg	9.6 mg/Kg	4.1%			
Soil		B-4@12'	B-4A@12'						
	TPH:								
	DRO			2,000 mg/Kg	8,600 mg/Kg	<mark>124.5%</mark>			
	ORO			170 mg/Kg	730 mg/Kg	<mark>124.4%</mark>			
	GRO			3,600 mg/Kg	6,500 mg/Kg	<mark>57.4%</mark>			
	Metals:								
	Chromium			8.1 mg/Kg	6.1 mg/Kg	<mark>28.2%</mark>			
	Arsenic			5.8 mg/Kg	5.5 mg/Kg	5.3%			
	Barium			84 mg/Kg	73 mg/Kg	14%			
	Lead			4.0 mg/Kg	4.1 mg/Kg	2.5%			

The QAPP states the QC limits for precision are 20% RPD for metals, Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), and Polychlorinated Biphenyls (PCBs); 30% RPD for Semi-volatile Organic Compounds (SVOCs); and 40% RPD for other compounds. These are very strict standards and intended as a guide when reviewing the data. While these standards were not met for each individual sample the averages met or were close to the RPD listed in the QAPP, therefore the data is usable.

Field QC Samples (Field Blanks): Two (2) field blanks samples of certified clean water were analyzed by Alpha for: TPH in accordance with EPA Test Method 8015M; VOCs in accordance with EPA Method 8260B; SVOCs in accordance with EPA Method 8270C; and metals in accordance with EPA Method 6020/6020A. The analysis for both field blank samples concluded in no detection of the specified parameters. Data Qualifiers: Data validation flags, as defined in the National Functional Guidelines, indicate if results are considered anomalous, quantitative, estimated, or rejected. All qualifiers should be discussed prior to utilizing the chemical data for the screening risk evaluation. Only rejected data are unusable for decision-making purposes. Other qualified data may require further verification. Alpha reported estimated concentrations, which were within the Diesel Range Organic (DRO) concentration and may include contributions from heavier-end hydrocarbons that elute to the DRO range, with a "L" flag. Based on the concentrations reported and type of flag, the flags are not considered significant to data interpolation.

Observations of Significance: No occurrences which might adversely affect sample integrity or data quality were noted in the analytical report.

DATA VALIDATION

The quality assurance (QA) objectives of the investigation are to assure that sampling, analysis and reporting activities provide data that are accurate, precise, representative, and legally defensible. Quality control (QC) represents the specific steps and procedures followed during the course of the project to achieve QA. The primary QC features of the FSP implementation included the collection and analysis of QC samples, and the data validation.

As per the QAPP, the following steps were followed to verify/validate field activities:

- Evaluation of field records for completeness and consistency.
- Summarization of number and type of samples collected.
- Review of QC information.
- Summarization of deviations and determined effects on data quality.

CONCLUSIONS

Based on this Level II validation, all data collected through implementation of the FSP satisfy data quality requirements specified for the Phase II ESA for the Site. The analyses followed the approved methods and included acceptable QC procedures. Relevant QA/QC results were satisfactory and acceptable. No outstanding issues were identified during the course of the data validation review that would cause the data to be rejected. Overall, the presented data (including the qualified results) are reliable and useable for project decision making.

RECOMMENDATION

It is recommended that the data can be used to characterize the nature and extent of any contamination, support screening risk evaluation, and/or evaluate the response action need relative to the Site.