



August 17, 2016

Mr. Chris Canfield  
Colorado Oil & Gas Conservation Commission  
1120 Lincoln Street Suite 801  
Denver, Colorado 80203

**Re: Progress Report – August 2016**  
**Custy #1**  
**SW ¼ SW ¼ Sec.15 T2S R66W 6PM**  
**Adams County, Colorado**  
**Remediation Project #9711**

Dear Mr. Canfield:

On behalf of Carrizo Niobrara LLC (Carrizo), Eagle Environmental Consulting, Inc. (EAGLE) is submitting this progress report for the above referenced site.

### **ASSESSMENT ACTIVITIES**

#### **Excavation Activities**

Following the discovery of a dump line release, source removal excavation activities were completed at the Custy #1 site from June 17-22, 2016. On June 17, 2016, Carrizo submitted a Spill/Release Report – Form 19 (Doc # 401064710) to the Colorado Oil & Gas Conservation Commission (COGCC). In addition, Adams County and Commerce City was verbally notified of the spill/release.

LT Environmental, Inc. (LTE) completed excavation oversight from June 17, 2016 through June 21, 2016. EAGLE provided environmental oversight at the site starting June 22, 2016 per Carrizo's request. Puzzle Creek completed excavation activities onsite. The excavation extents were approximately 38 feet east to west, by approximately 35 feet north to south, with a total depth of approximately 17 feet below ground surface (bgs).

Four sidewall soil samples (SS S, SS W, SS E, and SS N) were collected at approximately 8 feet bgs from the excavation on June 20, 2016 and were submitted to Summit Scientific Laboratory (Summit) for analysis. Following additional excavation activities, four more sidewall soil samples (Sidewall South, Sidewall West, Sidewall North, and Sidewall East) were collected at depths ranging from 10.5 to 12 feet bgs from the excavation on June 22, 2016 and were submitted to Origins Laboratory (Origins) for analysis. All eight sidewall soil samples were submitted for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons - gasoline range organics (TPH-GRO), and TPH - diesel range organics (TPH-DRO). Prior to back-filling activities, a gypsum/granular activated carbon groundwater amendment was applied to the excavation to aid in the remediation of residual adsorbed and dissolved phase impacts. A site location map is presented as Figure 1 and a site map illustrating the excavation extents is presented as Figure 2.

Based on laboratory analytical results, soil samples SS W@8' (0.17 milligrams per kilogram (mg/kg)), Sidewall South@11' (0.652 mg/kg), Sidewall West@12' (19.1 mg/kg), Sidewall North@10.5' (20.0 mg/kg), and Sidewall East@11.5' (5.72 mg/kg) contained adsorbed phase benzene concentrations

exceeding the COGCC Table 910-1 regulatory limit of 0.17 mg/kg. In addition, soil samples Sidewall West@12' (2,235 mg/kg), Sidewall North@10.5' (2,495 mg/kg), and Sidewall East@11.5' (966 mg/kg) contained TPH concentrations exceeding the COGCC Table 910-1 regulatory limit of 500 mg/kg. Soil analytical results are illustrated in Figure 3 and presented in Table 1. The laboratory analytical reports are included in Attachment A.

Since groundwater was encountered during excavation activities, excavation floor soil samples were not collected. A grab groundwater sample (GW-01) was collected from the excavation on June 20, 2016 and submitted to Summit for analysis. Throughout excavation activities, Select Energy provided vacuum truck services to remove groundwater that accumulated within the excavation.

Based on laboratory analytical results, grab groundwater sample GW-01 contained dissolved benzene (3,800 micrograms per liter (ug/L)), toluene (5,400 ug/L), and total xylenes (5,000 ug/L) concentrations exceeding the COGCC Table 910-1 regulatory limits of 5 ug/L, 560 ug/L, and 1,400 ug/L, respectively. Groundwater analytical results are illustrated in Figure 4 and presented in Table 2. The laboratory analytical report is included in Attachment A.

On June 24, 2016, Carrizo submitted a Remediation Workplan –Form 27 to the COGCC. The Remediation Workplan – Form 27 was approved by the COGCC on June 24, 2016, closing out the initial Spill/Release Report – Form 19 (Doc #401064710) and proceeding under approved remediation project #9711.

#### Soil Boring Assessment and Monitoring Well Installation Activities

Following back-filling activities, twelve soil borings (MW-01 through MW-12) were advanced onsite on June 27, 2016 to define adsorbed and dissolved phase petroleum hydrocarbon impacts beneath the site. Soil borings MW-01 through MW-12 were advanced to total depths ranging from 16.5 (MW-05) to 20 (MW-01) feet bgs to vertically and laterally define adsorbed phase impacts beneath the site. One soil sample was collected from each boring and submitted to Origins for analysis. Each soil boring was then completed as a 1-inch polyvinyl chloride (PVC) monitoring well. Soil boring logs/monitoring well completion diagrams for MW-01 through MW-12 are presented in Attachment B.

Based on laboratory analytical results, soil samples MW-06@5-7.5' (0.978 mg/kg) and MW-07@5-7.5' (1.83 mg/kg) contained adsorbed benzene concentrations exceeding the COGCC Table 910-1 regulatory limit of 0.17 mg/kg. In addition, soil sample MW-04@12.5-15' (604 mg/kg) contained a TPH concentration exceeding the COGCC Table 910-1 regulatory limit of 500 mg/kg. Soil analytical results are illustrated in Figure 3 and presented in Table 1. The laboratory analytical report is included in Attachment A.

#### Groundwater Monitoring Activities

On July 1, 2016, EAGLE completed groundwater monitoring activities at the site. Groundwater samples were collected from monitoring wells MW-01 through MW-12 and submitted to Origins for analysis. Prior to groundwater sample collection, static depth to groundwater measurements were collected from each monitoring well in order to generate an accurate groundwater flow direction. Monitoring well locations are presented in Figure 2.

Based on laboratory analytical results, the groundwater samples collected from monitoring wells MW-01 (1,800 ug/L), MW-06 (146 ug/L), and MW-07 (445 ug/L) contained dissolved benzene concentrations exceeding the COGCC Table 910-1 regulatory limit of 5 ug/L. Groundwater analytical results are

illustrated in Figure 4 and presented in Table 2. The laboratory analytical report is included in Attachment A.

The groundwater flow direction beneath the site is generally to the west. Groundwater elevations and parameters are illustrated in Figure 5 and presented in Table 3.

*Additional Assessment and Groundwater Monitoring Activities*

Per EAGLE's conversation with Chris Canfield on July 14, 2016, the COGCC required two additional groundwater monitoring wells (one approximately 30 feet to the west of MW-07 and one approximately 30 feet to the east of MW-06) to define adsorbed and dissolved phase impacts beneath the site.

Additional monitoring wells MW-13 and MW-14 were installed at the Custy #1 site on July 26, 2016. The soil samples collected from MW-13 and MW-14 were submitted to Origins for analysis. Based on laboratory analytical results, soil samples MW-13@10-12.5 and MW-14@5-7.5 did not contain concentrations of BTEX or TPH exceeding the COGCC Table 910-1 regulatory limits. Soil analytical results are illustrated in Figure 3 and presented in Table 1. The laboratory analytical report is included in Attachment A. Soil boring logs/monitoring well completion diagrams for MW-13 and MW-14 are included in Attachment B.

On August 4, 2016, EAGLE developed and sampled monitoring wells MW-13 and MW-14. The groundwater samples collected from MW-13 and MW-14 were submitted to Origins for analysis. Based on the laboratory analytical results, the groundwater samples collected from MW-13 and MW-14 did not contain concentrations of BTEX exceeding the COGCC Table 910-1 regulatory limits. Groundwater analytical results are presented in Table 2 and Figure 4 attached. The laboratory analytical report is included in Attachment A.

Based on EAGLE's conversation with Chris Canfield on July 14, 2016, quarterly groundwater monitoring will need to be completed to monitor dissolved phase concentrations onsite. However, monitoring wells MW-11 and MW-12 can be removed from the sampling plan since dissolved phase impacts are defined to the south by MW-03 through MW-05. Dissolved and adsorbed phase impacts have been defined onsite through soil/groundwater samples collected from MW-01 through MW-14. Therefore, no additional assessment activities are warranted at this time.

A Remediation Workplan – Form 27 addendum (remediation project number #9711) will be submitted to the COGCC. The Remediation Workplan – Form 27 addendum will recommend quarterly groundwater sampling of monitoring wells MW-01 through MW-10, MW-13, and MW-14, as well as evaluating monitored natural attenuation following the next quarterly groundwater sampling event scheduled to be completed in October 2016.

If you have any questions or require further information, please contact me at (303) 443-0479.

Sincerely,

***EAGLE ENVIRONMENTAL CONSULTING, INC.***



Daniel Coloccia  
Project Scientist

## **FIGURES**

**Figure 1: Site Location Map**

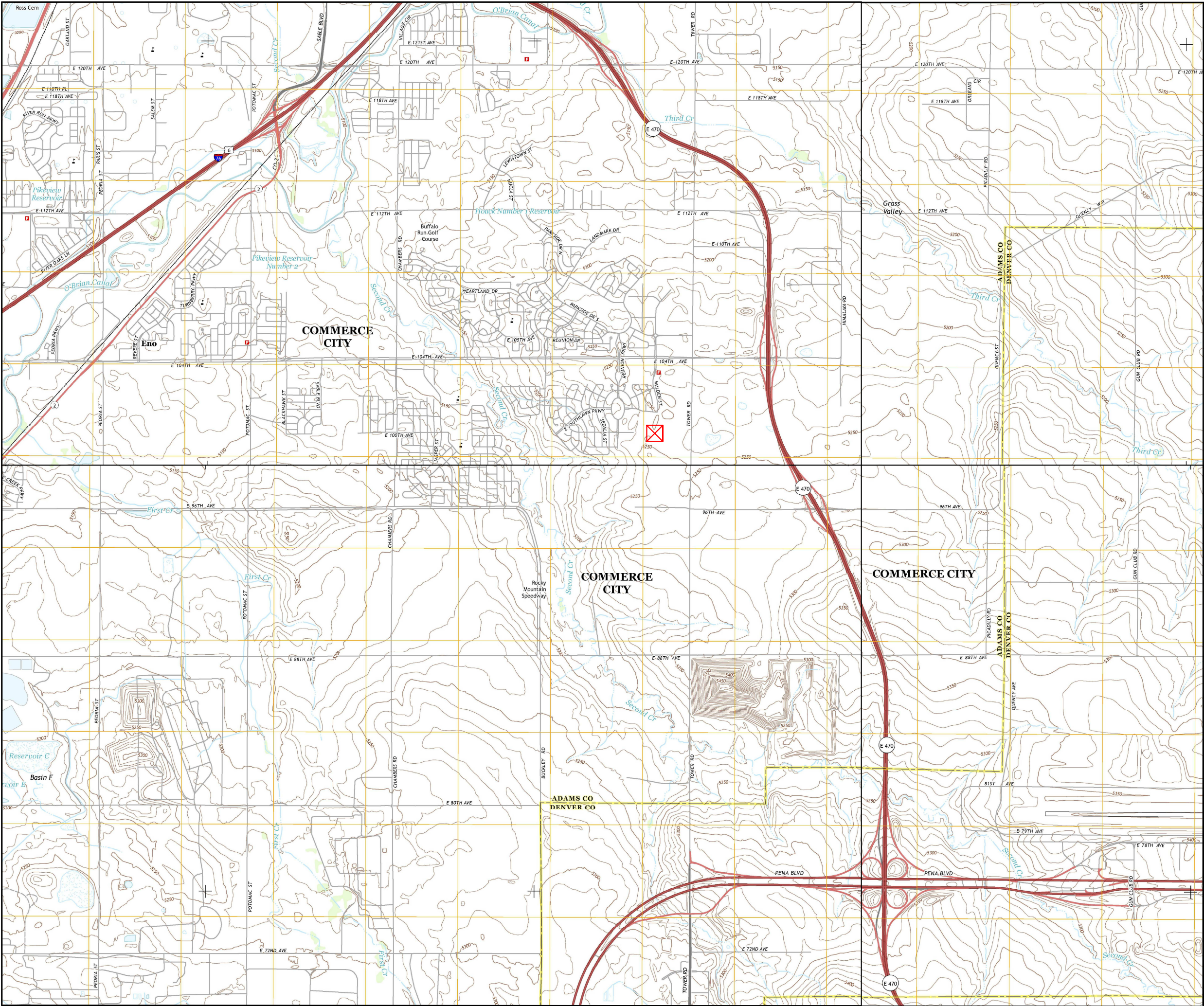
**Figure 2: Site Map**

**Figure 3: Soil Sample Location Map**

**Figure 4: Groundwater Sample Location Map (07/01/16 & 08/04/16)**

**Figure 5: Groundwater Elevation Map (07/01/16)**



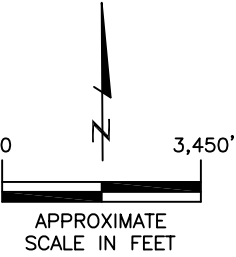


**LEGEND**



APPROXIMATE SITE LOCATION

NOTE: TOPOGRAPHIC MAP OBTAINED FROM U.S. DEPARTMENT OF THE INTERIOR – U.S. GEOLOGICAL SURVEY – BRIGHTON QUADRANGLE, MONTBELLO QUADRANGLE, MILE HIGH LAKES QUADRANGLE, AND DENVER INTERNATIONAL AIRPORT QUADRANGLE – ADAMS CO. AND DENVER CO., 7.5 MINUTE–SERIES



**SITE LOCATION MAP**

CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT./LONG.: 39.87267 / -104.76956  
ADAMS COUNTY, COLORADO  
REMEDATION PROJECT #9711

DATE:  
07/01/2016

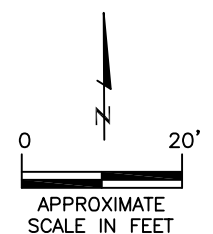
FIG.NO. 1  
DRAWN BY: DC



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
4101 INCA STREET, DENVER, CO 80211  
Ph: 303-433-0479 • F: 303-325-5449



- LEGEND
- APPROXIMATE MONITORING WELL LOCATION
  - APPROXIMATE EXCAVATION LIMITS (JUNE 2016)
  - APPROXIMATE FLOW LINE LOCATIONS
  - APPROXIMATE WELL PAD BOUNDARY



SITE MAP  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDIAION PROJECT #9711

DATE:	8/10/2016	
FIG NO.:	DRAWN BY:	
2	DC	<b>EAGLE</b> ENVIRONMENTAL CONSULTING, INC. <small>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</small>



# LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE EXCAVATION LIMITS (JUNE 2016)
- APPROXIMATE FLOW LINE LOCATIONS
- APPROXIMATE WELL PAD BOUNDARY
- APPROXIMATE EXCAVATION SOIL SAMPLE LOCATION

## PARAMETERS

SAMPLE LOCATION
DATE SAMPLE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH - GRO (mg/kg)
D = TPH - DRO (mg/kg)

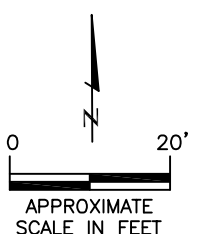
mg/kg = MILLIGRAMS PER KILOGRAM

TPH - GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH - DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED IN **BOLD** TYPEFACE INDICATE CONCENTRATIONS EXCEED THE COGCC TABLE 910-1 REGULATORY LIMIT FOR THAT COMPOUND.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

VALUES PRESENTED WITH A LESS THAN (<) SYMBOL INDICATE CONCENTRATIONS WERE NOT OBSERVED AT THE LABORATORIES REPORTING LIMIT



SOIL SAMPLE LOCATION MAP  
 CUSTY #1  
 SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
 LAT/LONG: 39.87267/-104.76956  
 ADAMS COUNTY, COLORADO  
 REMEDIATION PROJECT #9711

DATE:	8/10/2016	 <b>EAGLE</b> ENVIRONMENTAL CONSULTING, INC. <small>4101 INCA STREET, DENVER, CO 80211                  Ph: 303-433-0479 • F: 303-325-5449</small>
FIG NO.:	3	
DRAWN BY:	DC	



LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE EXCAVATION LIMITS (JUNE 2016)
- APPROXIMATE FLOW LINE LOCATIONS
- APPROXIMATE WELL PAD BOUNDARY
- APPROXIMATE EXCAVATION GRAB GROUNDWATER SAMPLE LOCATION

PARAMETERS

SAMPLE LOCATION  
B = BENZENE (ug/L)  
T = TOLUENE (ug/L)  
E = ETHYLBENZENE (ug/L)  
X = TOTAL XYLENES (ug/L)

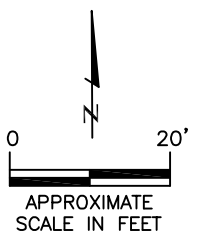
ug/L = MICROGRAMS PER LITER

NOTE: VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED THE COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT THE LABORATORY REPORTING LIMIT.

NOTE:  
MONITORING WELLS MW-01 THROUGH MW-12 WERE SAMPLED ON 7/1/16, MONITORING WELLS MW-13 AND MW-14 WERE SAMPLED ON 8/4/16.



GROUNDWATER SAMPLE LOCATION MAP  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDATION PROJECT #9711

DATE: 8/10/2016

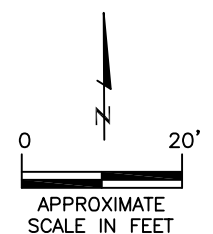
FIG NO.: 4

DRAWN BY: DC





- LEGEND**
- ⊕ APPROXIMATE MONITORING WELL LOCATION
  - APPROXIMATE EXCAVATION LIMITS (JUNE 2016)
  - - - APPROXIMATE FLOW LINE LOCATIONS
  - - - APPROXIMATE WELL PAD BOUNDARY
  - (90.74) GROUNDWATER ELEVATION (FEET)
  - - 92 GROUNDWATER ELEVATION CONTOUR (FEET)
  - ➔ INFERRED GROUNDWATER FLOW DIRECTION



**GROUNDWATER ELEVATION MAP**  
(07/01/2016)  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDIAL PROJECT #9711

DATE: 7/11/2016			<b>EAGLE</b> ENVIRONMENTAL CONSULTING, INC.  4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449
FIG NO.: 5	DRAWN BY: DC		



## **TABLES**

**Table 1:     Soil Analytical Results Summary**

**Table 2:     Groundwater Analytical Results Summary**

**Table 3:     Groundwater Elevation and Parameter Summary**

TABLE 1  
SOIL ANALYTICAL RESULTS SUMMARY  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDATION PROJECT #9711

Sample Location (Latitude, Longitude)	Date Sample Collected	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>COGCC Table 910-1 Regulatory Limit (mg/kg)</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>	
SS S	6/20/2016	8.0	0.033	0.066	<0.0050	0.018	<0.50	<50
SS W	6/20/2016	8.0	<b>0.17</b>	0.12	0.021	0.29	5.0	<50
SS E	6/20/2016	8.0	0.0060	<0.0050	<0.0050	0.0056	<0.50	<50
SS N	6/20/2016	8.0	0.062	0.031	<0.0050	0.027	<0.50	<50
Sidewall South (39.872930, -104.769741)	06/22/16	11.0	<b>0.652</b>	4.89	1.36	12.0	274	<50.0
Sidewall West (39.872981, -104.769817)	06/22/16	12.0	<b>19.1</b>	69.6	7.98	104	<b>1,930</b>	<b>305</b>
Sidewall North (39.873025, -104.769734)	06/22/16	10.5	<b>20.0</b>	75.7	11.9	116	<b>2,140</b>	<b>355</b>
Sidewall East (39.872980, -104.769676)	06/22/16	11.5	<b>5.72</b>	24.6	3.98	45.5	<b>750</b>	<b>216</b>
MW-01 (39.87297913, -104.7697838)	06/27/16	10-12.5	0.060	0.247	0.127	1.02	26.6	110
MW-02 (39.87296243, -104.7699640)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-03 (39.87284865, -104.7698840)	06/27/16	5-7.5	<0.002	<0.002	<0.0020	<0.002	<0.200	<50.0
MW-04 (39.87285635, -104.7696969)	06/27/16	12.5-15	<0.050	<0.050	0.110	0.238	<b>150</b>	<b>454</b>
MW-05 (39.87298890, -104.7695858)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-06 (39.87311149, -104.7697118)	06/27/16	7.5-10	<b>0.978</b>	6.25	0.751	10.6	138	<50.0
MW-07 (39.87306585, -104.7698917)	06/27/16	5-7.5	<b>1.83</b>	0.074	0.770	13.0	250	<50.0
MW-08 (39.87322288, -104.7700310)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-09 (39.87330035, -104.7698025)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-10 (39.87321894, -104.7696325)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-11 (39.87281543, -104.7695166)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-12 (39.87274590, -104.7696596)	06/27/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0
MW-13 (39.87305505, -104.7700342)	07/26/16	10-12.5	0.038	<0.002	<0.002	<0.002	<0.200	<50.0
MW-14 (39.87313118, -104.7695622)	07/26/16	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.200	<50.0

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

< = indicates result is less than the stated laboratory reporting limit

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limit.

TABLE 2  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDATION PROJECT #9711

Sample Location (Latitude, Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
GW-01	06/20/16	<b>3,800</b>	<b>5,400</b>	210	<b>5,000</b>
MW-01 (39.87297913, -104.7697838)	07/01/16	<b>1,800</b>	<b>611</b>	42.0	281
MW-02 (39.87296243, -104.7699640)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-03 (39.87284865, -104.7698840)	07/01/16	<1.00	<1.00	<1.00	1.53
MW-04 (39.87285635, -104.7696969)	07/01/16	<1.00	<1.00	2.65	3.73
MW-05 (39.87298890, -104.7695858)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-06 (39.87311149, -104.7697118)	07/01/16	<b>146</b>	200	33.5	211
MW-07 (39.87306585, -104.7698917)	07/01/16	<b>445</b>	39.2	32.8	51.1
MW-08 (39.87322288, -104.7700310)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-09 (39.87330035, -104.7698025)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-10 (39.87321894, -104.7696325)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-11 (39.87281543, -104.7695166)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-12 (39.87274590, -104.7696596)	07/01/16	<1.00	<1.00	<1.00	<1.00
MW-13 (39.87305505, -104.7700342)	08/04/16	<4.00	<4.00	<4.00	<4.00
MW-14 (39.87313118, -104.7695622)	08/04/16	<1.00	<1.00	<1.00	<1.00

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = micrograms per liter

< = indicates result is less than the stated laboratory reporting limit

Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limit.



TABLE 3  
GROUNDWATER ELEVATION AND PARAMETER SUMMARY  
CUSTY #1  
SW 1/4 SW 1/4 SEC.15 T2S R66W 6PM  
LAT/LONG: 39.87267/-104.76956  
ADAMS COUNTY, COLORADO  
REMEDATION PROJECT #9711

Sample Location	Date	Depth to Groundwater (feet)	TOC Elevation (feet)	Relative Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)
MW-01	07/01/16	8.87	98.18	89.31	2.52	16.8	6.80	>3999	54
MW-02	07/01/16	16.56	100.00	83.44	3.08	12.5	7.39	>3999	-4
MW-03	07/01/16	9.08	99.00	89.92	3.28	13.4	7.47	>3999	48
MW-04	07/01/16	6.35	97.18	90.83	3.32	14.0	7.40	1,583	57
MW-05	07/01/16	7.30	98.02	90.72	2.51	13.7	7.66	>3999	-9
MW-06	07/01/16	8.08	98.20	90.12	2.46	14.3	7.46	>3999	55
MW-07	07/01/16	8.96	97.46	88.50	3.60	14.8	7.21	>3999	65
MW-08	07/01/16	13.25	97.68	84.43	4.17	13.9	7.41	>3999	35
MW-09	07/01/16	9.39	98.94	89.55	3.12	13.4	7.58	>3999	53
MW-10	07/01/16	8.82	98.98	90.16	3.80	12.8	7.63	>3999	44
MW-11	07/01/16	8.04	97.60	89.56	4.30	12.8	7.68	>3999	55
MW-12	07/01/16	12.75	97.24	84.49	3.81	13.2	7.75	>3999	44
MW-13	08/04/16	18.93	99.29	80.36	3.46	14.5	6.68	11,699	137.9
MW-14	08/04/16	12.77	102.97	90.20	3.71	15.0	6.78	3,761	159.7

TOC = Top of Casing

mg/L = milligrams per liter

°C = degrees Celcius

µS/cm - microSiemens per centimeter

mV = millivolts

ORP = oxidation reduction potential

## **ATTACHMENT A**

### **Laboratory Analytical Reports**

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 23, 2016

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: CUSTY #1

Enclosed are the results of analyses for samples received by Summit Scientific on 06/20/16 18:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS S@8'	1606192-01	Soil	06/20/16 17:25	06/20/16 18:50
SS W@8'	1606192-02	Soil	06/20/16 17:30	06/20/16 18:50
SS E@8'	1606192-03	Soil	06/20/16 17:50	06/20/16 18:50
SS N@8'	1606192-04	Soil	06/20/16 17:45	06/20/16 18:50

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

# Summit Scientific *1604592*

*S<sub>2</sub>*

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT ENVIRONMENTAL Project Manager: CHRIS ROY  
Address: 4600 WEST 60th AVENUE E-Mail: CROY@LTENV.COM  
City/State/Zip: ARVADA, CO 80003  
Phone: 303-433-9788 Fax: \_\_\_\_\_ Project Name: CUTY #1  
Sampler Name: JEREMY PIKE Project Number: 042916003

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	Dioxin	TPH-C60	TPH-1000		
1	SSN @ 5'	6/20/16	0945	1			X			X				X	X	X	
2	SSW @ 5'	6/20/16	1005	1			X			X				X	X	X	
3	SSS @ 8'	6/20/16	1725	1			X			X				X	X	X	
4	SSW @ 8'	6/20/16	1730	1			X			X				X	X	X	
5	SSS @ 8'	6/20/16	1750	1			X			X				X	X	X	
6	SSN @ 8'	6/20/16	1745	1			X			X				X	X	X	
7																	
8																	
9																	
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/20/16 1850</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/20/16 1850</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours _____	
Sample Integrity:				Temperature Upon Receipt: <u>5.9</u>	
Intact: <u>Yes</u> No					

www.s2scientific.com

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*[Signature]*



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

### Sample Receipt Checklist

S2 Work Order: 6180192

Client: LT

Client Project ID: CUSTY #1

Shipped Via: \_\_\_\_\_

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: \_\_\_\_\_

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Cooler ID					
Temp (°C)	<u>5.9</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Logan S  
Custodian Printed Name

Chris Roy  
Signature or Initials of Custodian

6.23.16  
Date/Time



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:05

**SS S@8'**  
**1606192-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/20/16 17:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: **06/20/16 17:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.8 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/20/16 17:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.033</b>	0.0020	mg/kg	1	1606194	"	06/20/16	EPA 8260B	
<b>Toluene</b>	<b>0.0066</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.018</b>	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/20/16 17:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

SS W@8'  
1606192-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/20/16 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: 06/20/16 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/20/16 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.17	0.0020	mg/kg	1	1606194	"	06/20/16	EPA 8260B	
Toluene	0.12	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.021	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.29	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.0	0.50	"	"	"	"	"	"	

Date Sampled: 06/20/16 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:05

**SS E@8'**  
**1606192-03 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/20/16 17:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: **06/20/16 17:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.5 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/20/16 17:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0060</b>	0.0020	mg/kg	1	1606194	"	06/20/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.0056</b>	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/20/16 17:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:05

**SS N@8'**  
**1606192-04 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/20/16 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1606195	06/20/16	06/20/16	8015M	

Date Sampled: **06/20/16 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.1 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/20/16 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.062</b>	0.0020	mg/kg	1	1606194	"	06/20/16	EPA 8260B	
<b>Toluene</b>	<b>0.031</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.027</b>	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/20/16 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

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Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1606195 - EPA 3550A**

**Blank (1606195-BLK1)**

Prepared & Analyzed: 06/20/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 14.1 " 12.5 112 30-150

**LCS (1606195-BS1)**

Prepared & Analyzed: 06/20/16

C10-C28 (DRO) 524 50 mg/kg 499 105 73-134

Surrogate: o-Terphenyl 13.7 " 12.5 110 30-150

**Matrix Spike (1606195-MS1)**

Source: 1606172-01

Prepared & Analyzed: 06/20/16

C10-C28 (DRO) 475 50 mg/kg 493 ND 96.3 50-148

Surrogate: o-Terphenyl 12.9 " 12.4 104 30-150

**Matrix Spike Dup (1606195-MSD1)**

Source: 1606172-01

Prepared & Analyzed: 06/20/16

C10-C28 (DRO) 456 50 mg/kg 477 ND 95.7 50-148 3.95 13

Surrogate: o-Terphenyl 11.7 " 12.0 97.6 30-150

Summit Scientific

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Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1606194 - EPA 5030 Soil MS**

**Blank (1606194-BLK1)**

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.2	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	21-167			

**LCS (1606194-BS1)**

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	0.0953	0.0020	mg/kg	0.100		95.3	58-130			
Toluene	0.111	0.0050	"	0.100		111	61-134			
Ethylbenzene	0.117	0.0050	"	0.0992		118	74-139			
m,p-Xylene	0.243	0.010	"	0.200		122	73-137			
o-Xylene	0.111	0.0050	"	0.0980		114	73-141			
Xylenes (total)	0.354	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.71	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.2	23-173			
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	21-167			

**Matrix Spike (1606194-MS1)**

Source: 1606172-01

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	0.0900	0.0020	mg/kg	0.0945	ND	95.2	30-131			
Toluene	0.103	0.0050	"	0.0945	ND	109	30-134			
Ethylbenzene	0.109	0.0050	"	0.0938	ND	116	22-153			
m,p-Xylene	0.226	0.010	"	0.189	ND	120	10-159			
o-Xylene	0.105	0.0050	"	0.0926	ND	114	31-151			
Xylenes (total)	0.332	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.58	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0378		96.2	23-173			
Surrogate: Toluene-d8	0.0373		"	0.0378		98.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0363		"	0.0378		95.9	21-167			

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1606194 - EPA 5030 Soil MS**

Matrix Spike Dup (1606194-MSD1)	Source: 1606172-01			Prepared: 06/20/16 Analyzed: 06/21/16						
Benzene	0.0956	0.0020	mg/kg	0.0975	ND	98.1	30-131	6.08	34	
Toluene	0.110	0.0050	"	0.0975	ND	113	30-134	6.62	30	
Ethylbenzene	0.111	0.0050	"	0.0967	ND	115	22-153	1.58	24	
m,p-Xylene	0.229	0.010	"	0.195	ND	118	10-159	1.16	68	
o-Xylene	0.108	0.0050	"	0.0955	ND	113	31-151	2.86	38	
Xylenes (total)	0.337	0.0050	"		ND		30-150	1.70	20	
Gasoline Range Hydrocarbons	1.67	0.50	"		ND		30-150	5.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0390		100	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0390		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0390		94.6	21-167			

Summit Scientific

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4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:05

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

A handwritten signature in black ink, appearing to be 'MSM'.

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 23, 2016

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: CUSTY #1

Enclosed are the results of analyses for samples received by Summit Scientific on 06/20/16 18:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:06

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	1606193-01	Water	06/20/16 16:05	06/20/16 18:50

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.







LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:06

### Sample Receipt Checklist

S2 Work Order: 16050193

Client: LT

Client Project ID: CUSTY #1

Shipped Via: \_\_\_\_\_

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: \_\_\_\_\_

Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
(Describe)

Cooler ID					
Temp (°C)	<u>55</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.				
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?				
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Logan S  
Custodian Printed Name

[Signature]  
Signature or Initials of Custodian

6-20-16  
Date/Time



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:06

**GW01**  
**1606193-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/20/16 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3800</b>	100	ug/l	100	1606196	06/20/16	06/20/16	EPA 8260B	
<b>Toluene</b>	<b>5400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>210</b>	1.0	"	1	"	"	06/20/16	"	
<b>Xylenes (total)</b>	<b>5000</b>	100	"	100	"	"	"	"	

Date Sampled: **06/20/16 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		75.6 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.2 %	45-146		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:06

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 1606196 - EPA 5030 Water MS

##### Blank (1606196-BLK1)

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.0		"	13.3		82.1	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	45-146			

##### LCS (1606196-BS1)

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	32.7	1.0	ug/l	33.3		98.2	51-132			
Toluene	37.1	1.0	"	33.3		111	51-138			
Ethylbenzene	38.5	1.0	"	33.1		116	58-146			
m,p-Xylene	78.2	2.0	"	66.5		118	57-144			
o-Xylene	36.7	1.0	"	32.7		112	53-146			
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.3		86.9	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	45-149			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.4	45-146			

##### Matrix Spike (1606196-MS1)

Source: 1606178-01

Prepared: 06/20/16 Analyzed: 06/21/16

Benzene	32.9	1.0	ug/l	33.3	ND	98.6	34-141			
Toluene	36.2	1.0	"	33.3	ND	109	27-151			
Ethylbenzene	37.6	1.0	"	33.1	ND	114	29-160			
m,p-Xylene	76.5	2.0	"	66.5	ND	115	20-166			
o-Xylene	35.8	1.0	"	32.7	ND	110	33-159			
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		84.8	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	45-149			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	45-146			

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

Reported:  
06/23/16 10:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1606196 - EPA 5030 Water MS**

Matrix Spike Dup (1606196-MSD1)	Source: 1606178-01			Prepared: 06/20/16 Analyzed: 06/21/16						
Benzene	33.7	1.0	ug/l	33.3	ND	101	34-141	2.55	32	
Toluene	37.1	1.0	"	33.3	ND	111	27-151	2.24	25	
Ethylbenzene	38.7	1.0	"	33.1	ND	117	29-160	2.99	50	
m,p-Xylene	78.1	2.0	"	66.5	ND	117	20-166	2.10	36	
o-Xylene	36.6	1.0	"	32.7	ND	112	33-159	2.29	26	
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.3	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.8	45-149			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	45-146			

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: CUSTY #1  
Project Number: 042916003  
Project Manager: Chris Roy

**Reported:**  
06/23/16 10:06

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

A handwritten signature in black ink, appearing to be 'MSM'.



June 29, 2016

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - Custy #1**

**Project Number - [none]**

Attached are your analytical results for Custy #1 received by Origins Laboratory, Inc. June 22, 2016. This project is associated with Origins project number X606267-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sidewall South @ 11'	X606267-01	Soil	June 22, 2016 10:04	06/22/2016 16:02
Sidewall West @ 12'	X606267-02	Soil	June 22, 2016 10:09	06/22/2016 16:02
Sidewall North @ 10.5'	X606267-03	Soil	June 22, 2016 10:21	06/22/2016 16:02
Sidewall East @ 11.5'	X606267-04	Soil	June 22, 2016 10:29	06/22/2016 16:02

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X606267

Client: Eagle

Client Project ID: Custy #1

Checklist Completed by: Jeff Smith

Shipped Via: 17D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/23/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 10.6 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)				
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	1			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			9	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

6/24/16  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Sidewall South @ 11'**

**6/22/2016 10:04:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X606267-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6F2703	06/27/2016	06/28/2016	U
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Surrogate: o-Terphenyl	84.5 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	274	5.00	mg/kg	25	B6F2702	06/27/2016	06/28/2016	
Benzene	0.652	0.050	"	"	"	"	"	
Toluene	4.89	0.050	"	"	"	"	"	
Ethylbenzene	1.36	0.050	"	"	"	"	"	
Xylenes, total	12.0	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	
Surrogate: Toluene-d8	130 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Sidewall West @ 12'**

**6/22/2016 10:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X606267-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	305	50.0	mg/kg	1	B6F2703	06/27/2016	06/28/2016
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Surrogate: o-Terphenyl	85.3 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	1930	50.0	mg/kg	250	B6F2702	06/27/2016	06/29/2016
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Benzene	19.1	0.498	"	"	"	"	"
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Toluene	69.6	0.498	"	"	"	"	"
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Ethylbenzene	7.98	0.050	"	25	"	"	06/28/2016
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Xylenes, total	104	0.498	"	250	"	"	06/29/2016
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Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
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Surrogate: Toluene-d8	119 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Sidewall North @ 10.5'**

**6/22/2016 10:21:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X606267-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	355	50.0	mg/kg	1	B6F2703	06/27/2016	06/28/2016
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Surrogate: o-Terphenyl	99.2 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2140	50.0	mg/kg	250	B6F2702	06/27/2016	06/29/2016
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Benzene	20.0	0.498	"	"	"	"	"
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Toluene	75.7	0.498	"	"	"	"	"
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Ethylbenzene	11.9	0.498	"	"	"	"	"
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Xylenes, total	116	0.498	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
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Surrogate: Toluene-d8	121 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Sidewall East @ 11.5'**  
**6/22/2016 10:29:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606267-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	216	50.0	mg/kg	1	B6F2703	06/27/2016	06/28/2016
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Surrogate: o-Terphenyl	89.5 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	750	50.0	mg/kg	250	B6F2702	06/27/2016	06/29/2016
Benzene	5.72	0.498	"	"	"	"	"
Toluene	24.6	0.498	"	"	"	"	"
Ethylbenzene	3.98	0.498	"	"	"	"	"
Xylenes, total	45.5	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6F2702 - EPA 5030 (soil)</b>										
<b>Blank (B6F2702-BLK1)</b>					Prepared: 06/27/2016 Analyzed: 06/28/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2702 - EPA 5030 (soil)

**LCS (B6F2702-BS1)**

Prepared: 06/27/2016 Analyzed: 06/28/2016

Benzene	0.097	0.002	mg/kg	0.100		97.3	77.1-124			
Toluene	0.092	0.002	"	0.100		92.2	74.5-128			
Ethylbenzene	0.091	0.002	"	0.100		91.2	66.4-127			
m,p-Xylene	0.180	0.004	"	0.200		89.8	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6F2702 - EPA 5030 (soil)**

Matrix Spike (B6F2702-MS1)		Source: X606274-01			Prepared: 06/27/2016 Analyzed: 06/28/2016					
Benzene	0.100	0.002	mg/kg	0.100	ND	99.5	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	96.1	65.1-130			
Ethylbenzene	0.092	0.002	"	0.100	ND	92.3	62.2-130			
m,p-Xylene	0.187	0.004	"	0.200	ND	93.6	46.5-137			
o-Xylene	0.097	0.002	"	0.100	ND	97.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6F2702 - EPA 5030 (soil)**

Matrix Spike Dup (B6F2702-MSD1)		Source: X606274-01			Prepared: 06/27/2016 Analyzed: 06/28/2016					
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126	1.99	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	4.30	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.0	62.2-130	0.712	19.6	
m,p-Xylene	0.188	0.004	"	0.200	ND	94.2	46.5-137	0.618	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	95.9	54.2-134	1.12	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

## Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B6F2703 - EPA 3580

#### Blank (B6F2703-BLK1)

Prepared: 06/27/2016 Analyzed: 06/28/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	40		"	50.0		79.6	59-131			

#### LCS (B6F2703-BS1)

Prepared: 06/27/2016 Analyzed: 06/28/2016

Diesel (C10-C28)	883	50.0	mg/kg	1000		88.3	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.5	59-131			

#### Matrix Spike (B6F2703-MS1)

Source: X606274-01

Prepared: 06/27/2016 Analyzed: 06/28/2016

Diesel (C10-C28)	770	50.0	mg/kg	1000	ND	77.0	53-125			
Surrogate: o-Terphenyl	37		"	50.0		74.7	59-131			

#### Matrix Spike Dup (B6F2703-MSD1)

Source: X606274-01

Prepared: 06/27/2016 Analyzed: 06/28/2016

Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	53-125	16.7	20	
Surrogate: o-Terphenyl	39		"	50.0		78.1	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



July 05, 2016

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - Custy #1**

**Project Number - [none]**

Attached are your analytical results for Custy #1 received by Origins Laboratory, Inc. June 28, 2016. This project is associated with Origins project number X606345-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01 @ 10-12.5'	X606345-01	Soil	June 27, 2016 9:11	06/28/2016 12:45
MW-02 @ 5-7.5'	X606345-02	Soil	June 27, 2016 9:41	06/28/2016 12:45
MW-03 @ 5-7.5'	X606345-03	Soil	June 27, 2016 10:26	06/28/2016 12:45
MW-04 @ 12.5-15'	X606345-04	Soil	June 27, 2016 11:29	06/28/2016 12:45
MW-05 @ 5-7.5'	X606345-05	Soil	June 27, 2016 12:10	06/28/2016 12:45
MW-06 @ 7.5-10'	X606345-06	Soil	June 27, 2016 13:07	06/28/2016 12:45
MW-07 @ 5-7.5'	X606345-07	Soil	June 27, 2016 13:40	06/28/2016 12:45
MW-08 @ 5-7.5'	X606345-08	Soil	June 27, 2016 14:18	06/28/2016 12:45
MW-09 @ 5-7.5'	X606345-09	Soil	June 27, 2016 14:53	06/28/2016 12:45
MW-10 @ 5-7.5'	X606345-10	Soil	June 27, 2016 15:34	06/28/2016 12:45

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11 @ 5-7.5'	X606345-11	Soil	June 27, 2016 16:11	06/28/2016 12:45
MW-12 @ 5-7.5'	X606345-12	Soil	June 27, 2016 16:51	06/28/2016 12:45

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

X600345

page | of 2

Client: Eagle Environmental Consulting  
Address: 4101 Inca Street  
Denver, CO 80211  
Telephone Number: (303) 433-0479  
Email Address: mca3@eagle-enviro.com

Project Manager: Daniel Coloccia  
Project Name: Custy #1  
Project Number: —  
Samples Collected By: D. Coloccia

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	At Summ #	Other	BTX	
MW-01@ 5-7.5'	6/28/16	0911	2	X				X				X	1
MW-02@ 5-7.5'	6/28/16	0941	1										2
MW-03@ 5-7.5'	6/28/16	1026	1										3
MW-04@ 12.5-15'	6/28/16	1129	1										4
MW-05@ 5-7.5'	6/28/16	1210	1										5
MW-06@ 7.5-10'	6/28/16	1307	1										6
MW-07@ 5-7.5'	6/28/16	1340	1										7
MW-08@ 5-7.5'	6/28/16	1418	1										8
MW-09@ 5-7.5'	6/28/16	1453	1										9
MW-10@ 5-7.5'	6/28/16	1534	1										10
Relinquished By: <i>[Signature]</i>	Date: 6/28/16	Time: 12:45		Received By: <i>[Signature]</i>				Received By: <i>[Signature]</i>			Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard		
Relinquished By: <i>[Signature]</i>	Date: 6/28/16	Time: 12:45		Received By: <i>[Signature]</i>				Received By: <i>[Signature]</i>			Date Results Needed: 6/28/16 12:45		

1725 Elk Place | Phone: 303.433.1322 | Fax: 303.265.9645 | Denver, CO 80211

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

www.originslaboratory.com page 2 of 2

**ORIGINS** LABORATORY, INC X600345

Client: Eagle Environmental Consulting Project Manager: Daniel Coloccia  
Address: 4101 Inca Street Project Name: Custy #1  
Denver, CO 80211 Project Number: --  
Telephone Number: (303) 433-0479 Samples Collected By: --  
Email Address: mcb3@eagle-enviro.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analyst	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air/Surface	Container #			Other
MW-11@ 5-7.5'	6/27/16	1611	2	X										1
MW-12@ 5-7.5'	6/27/16	1651	2	X										2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: TDC	Date: 6/28/16	Time: 12:45												Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:												

Temp Received: 1.8 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X404345

Client: Eagle Env.

Client Project ID: Custy #1

Checklist Completed by: Jeff Smith

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/1/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 1.8 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jeff Smith

Date/Time Reviewed 7/1/12

Origins Laboratory, Inc.

*Jeff Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**MW-01 @ 10-12.5'**  
**6/27/2016 9:11:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606345-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	110	50.0	mg/kg	1	B6G0104	07/01/2016	07/01/2016
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Surrogate: o-Terphenyl	83.0 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	26.6	5.00	mg/kg	25	B6F3014	06/30/2016	07/01/2016
Benzene	0.060	0.002	"	1	"	"	07/01/2016
Toluene	0.247	0.002	"	"	"	"	"
Ethylbenzene	0.127	0.002	"	"	"	"	"
Xylenes, total	1.02	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	07/01/2016
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	88.9 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**MW-02 @ 5-7.5'**  
**6/27/2016 9:41:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606345-02 (Soil)**

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/01/2016	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	79.3 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-03 @ 5-7.5'

6/27/2016 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-03 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/01/2016	U
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Surrogate: o-Terphenyl	77.1 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**MW-04 @ 12.5-15'**  
**6/27/2016 11:29:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606345-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	<b>454</b>	50.0	mg/kg	1	B6G0104	07/01/2016	07/01/2016
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Surrogate: o-Terphenyl	105 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>150</b>	5.00	mg/kg	25	B6F3014	06/30/2016	07/01/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>0.110</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>0.238</b>	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-05 @ 5-7.5'

6/27/2016 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-05 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/01/2016	U
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Surrogate: o-Terphenyl	74.3 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-06 @ 7.5-10'  
6/27/2016 1:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-06 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
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Surrogate: o-Terphenyl	76.6 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	138	5.00	mg/kg	25	B6F3014	06/30/2016	07/01/2016	
Benzene	0.978	0.050	"	"	"	"	"	
Toluene	6.25	0.050	"	"	"	"	"	
Ethylbenzene	0.751	0.050	"	"	"	"	"	
Xylenes, total	10.6	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	07/01/2016	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

MW-07 @ 5-7.5'

6/27/2016 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X606345-07 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
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Surrogate: o-Terphenyl	80.5 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	250	5.00	mg/kg	25	B6F3014	06/30/2016	07/01/2016	
Benzene	1.83	0.050	"	"	"	"	"	
Toluene	0.074	0.050	"	"	"	"	"	
Ethylbenzene	0.770	0.050	"	"	"	"	"	
Xylenes, total	13.0	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	07/01/2016	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-08 @ 5-7.5'  
6/27/2016 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-08 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	76.2 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-09 @ 5-7.5'  
6/27/2016 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-09 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	80.6 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-10 @ 5-7.5'  
6/27/2016 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-10 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
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Surrogate: o-Terphenyl	69.6 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

MW-11 @ 5-7.5'  
6/27/2016 4:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X606345-11 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
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Surrogate: o-Terphenyl	72.4 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**MW-12 @ 5-7.5'**  
**6/27/2016 4:51:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606345-12 (Soil)**

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0104	07/01/2016	07/02/2016	U
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Surrogate: o-Terphenyl	76.9 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F3014	06/30/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6F3014 - EPA 5030 (soil)</b>										
<b>Blank (B6F3014-BLK1)</b>					Prepared: 06/30/2016 Analyzed: 07/01/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6F3014 - EPA 5030 (soil)**

**LCS (B6F3014-BS1)**

Prepared: 06/30/2016 Analyzed: 07/01/2016

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.113	0.002	"	0.100		113	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.213	0.004	"	0.200		106	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6F3014 - EPA 5030 (soil)**

Matrix Spike (B6F3014-MS1)		Source: X606345-05			Prepared: 06/30/2016 Analyzed: 07/01/2016					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	96.8	65.1-130			
Ethylbenzene	0.122	0.002	"	0.100	ND	122	62.2-130			
m,p-Xylene	0.238	0.004	"	0.200	ND	119	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	97.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6F3014 - EPA 5030 (soil)**

Matrix Spike Dup (B6F3014-MSD1)		Source: X606345-05			Prepared: 06/30/2016 Analyzed: 07/01/2016					
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126	5.64	11.3	
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130	1.54	15.4	
Ethylbenzene	0.118	0.002	"	0.100	ND	118	62.2-130	3.63	19.6	
m,p-Xylene	0.232	0.004	"	0.200	ND	116	46.5-137	2.26	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134	1.63	17.9	
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

## Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B6G0104 - EPA 3580

#### Blank (B6G0104-BLK1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

41

"

50.0

82.6

59-131

#### LCS (B6G0104-BS1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	946	50.0	mg/kg	1000		94.6	64-121			
------------------	-----	------	-------	------	--	------	--------	--	--	--

Surrogate: o-Terphenyl

49

"

50.0

98.3

59-131

#### Matrix Spike (B6G0104-MS1)

Source: X606345-05

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	929	50.0	mg/kg	1000	ND	92.9	53-125			
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Surrogate: o-Terphenyl

45

"

50.0

89.3

59-131

#### Matrix Spike Dup (B6G0104-MSD1)

Source: X606345-05

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	53-125	0.799	20	
------------------	-----	------	-------	------	----	------	--------	-------	----	--

Surrogate: o-Terphenyl

48

"

50.0

96.9

59-131

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



July 08, 2016

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - Custy #1**

**Project Number - Carrizo**

Attached are your analytical results for Custy #1 received by Origins Laboratory, Inc. July 01, 2016. This project is associated with Origins project number X607037-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X607037-01	Water	July 1, 2016 12:05	07/01/2016 13:58
MW-02	X607037-02	Water	July 1, 2016 11:15	07/01/2016 13:58
MW-03	X607037-03	Water	July 1, 2016 11:20	07/01/2016 13:58
MW-04	X607037-04	Water	July 1, 2016 12:10	07/01/2016 13:58
MW-05	X607037-05	Water	July 1, 2016 11:35	07/01/2016 13:58
MW-06	X607037-06	Water	July 1, 2016 11:50	07/01/2016 13:58
MW-07	X607037-07	Water	July 1, 2016 11:55	07/01/2016 13:58
MW-08	X607037-08	Water	July 1, 2016 11:10	07/01/2016 13:58
MW-09	X607037-09	Water	July 1, 2016 11:45	07/01/2016 13:58
MW-10	X607037-10	Water	July 1, 2016 11:40	07/01/2016 13:58

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11	X607037-11	Water	July 1, 2016 11:30	07/01/2016 13:58
MW-12	X607037-12	Water	July 1, 2016 11:25	07/01/2016 13:58

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

X607037

page / of 2

Client: EMC Env. Consulting, Inc.  
Address: 4101 Inca St  
Denver, CO  
Telephone Number: 303 433 0779  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: Dan Coloccia  
Project Name: Custy #1  
Project Number: Carrizo  
Samples Collected By: E. Verde

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
mw-01	7-1-16	1205	3	X				X				1
mw-02		1115	1									2
mw-03		1120										3
mw-04		1210										4
mw-05		1135										5
mw-06		1130										6
mw-07		1155										7
mw-08		1110										8
mw-09		1145										9
mw-10		1140										10
Relinquished By: <u>[Signature]</u>	Date: <u>7-1-16</u>	Time: <u>1358</u>	Received By: <u>[Signature]</u>	Date: <u>7/1/16</u>	Time: <u>1358</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By: <u>[Signature]</u>	Date: <u>7-1-16</u>	Time: <u>1358</u>	Received By: <u>[Signature]</u>	Date: <u>7/1/16</u>	Time: <u>1358</u>							

Temp Received: 1.8 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**ORIGINS**  
LABORATORY, INC

Client: Eagle Env. Consulting, Inc.  
Address: 4101 Inca St  
Denver, CO  
Telephone Number: 303 433 0979  
Email Address: dcoloccia@eagleenviro.com

Project Manager: Dan Coloccia  
Project Name: Custy #1  
Project Number: Carrizo  
Samples Collected By: E. Kone

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page 2 of 2

**X607037**

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #		
mw-11	7-1-16	1130	3	X				X				1
mw-12	7-1-16	1125	3	X				X				2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 7-1-16

Date: 7-1-16

Time: 1358

Time: 1358

Received By: [Signature]

Received By: [Signature]

Date: 7-1-16

Date: 7-1-16

Time: 1358

Time: 1358

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 1.8

Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver

CO

80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X607037

Client: Eagle

Client Project ID: Custy #1

Checklist Completed by: Jeff Smith

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/5/16

Airbill #: 224

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1/1/18 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by [Signature] (Project Manager)

Date/Time Reviewed 7/16/16

Origins Laboratory, Inc.

Jefo Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-01  
7/1/2016 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-01 (Water)

**BTEX by EPA 8260C**

Benzene	1800	20.0	ug/L	20	B6G0701	07/07/2016	07/08/2016
Toluene	611	20.0	"	"	"	"	07/07/2016
Ethylbenzene	42.0	1.00	"	1	"	"	"
Xylenes, total	281	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	07/08/2016
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-02  
7/1/2016 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-02 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %	84-121	"	"	"
Surrogate: Toluene-d8	94.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-03  
7/1/2016 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-03 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	1.53	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**MW-04**  
**7/1/2016 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X607037-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	2.65	1.00	"	"	"	"	"	
Xylenes, total	3.73	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

**MW-05**

**7/1/2016 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X607037-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-06  
7/1/2016 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-06 (Water)

**BTEX by EPA 8260C**

Benzene	146	10.0	ug/L	10	B6G0701	07/07/2016	07/08/2016
Toluene	200	10.0	"	"	"	"	"
Ethylbenzene	33.5	1.00	"	1	"	"	07/07/2016
Xylenes, total	211	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.2 %	84-121			"	"	"
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-07  
7/1/2016 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-07 (Water)

## BTEX by EPA 8260C

Benzene	445	10.0	ug/L	10	B6G0701	07/07/2016	07/08/2016
Toluene	39.2	1.00	"	1	"	"	07/07/2016
Ethylbenzene	32.8	1.00	"	"	"	"	"
Xylenes, total	51.1	1.00	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121			"	"	07/08/2016
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

**MW-08**

**7/1/2016 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X607037-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-09  
7/1/2016 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-09 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**MW-10**  
**7/1/2016 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X607037-10 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-11  
7/1/2016 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X607037-11 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

MW-12  
7/1/2016 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X607037-12 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B6G0701	07/07/2016	07/07/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6G0701 - EPA 5030B (Water)**

**Blank (B6G0701-BLK1)**

Prepared: 07/07/2016 Analyzed: 07/07/2016

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	98.8		84-121			
Surrogate: Toluene-d8	64		"	62.5	103		85-115			
Surrogate: 4-Bromofluorobenzene	55		"	62.5	87.9		84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0701 - EPA 5030B (Water)

**LCS (B6G0701-BS1)**

Prepared: 07/07/2016 Analyzed: 07/07/2016

Benzene	49.6	1.00	ug/L	50.0		99.3	73.3-129
Toluene	52.1	1.00	"	50.0		104	76.2-123
Ethylbenzene	43.0	1.00	"	50.0		86.0	73.6-130
m,p-Xylene	87.6	2.00	"	100		87.6	76.1-126
o-Xylene	43.4	1.00	"	50.0		86.8	76.6-124
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.3	84-121
Surrogate: Toluene-d8	65		"	62.5		103	85-115
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.3	84-114

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6G0701 - EPA 5030B (Water)**

Matrix Spike (B6G0701-MS1)		Source: X607036-07			Prepared: 07/07/2016 Analyzed: 07/07/2016					
Benzene	53.1	1.00	ug/L	50.0	ND	106	74-130			
Toluene	57.5	1.00	"	50.0	0.110	115	73-131			
Ethylbenzene	49.1	1.00	"	50.0	ND	98.2	76-132			
m,p-Xylene	99.7	2.00	"	100	ND	99.7	69-139			
o-Xylene	49.2	1.00	"	50.0	ND	98.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.5	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.5	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: Carrizo  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6G0701 - EPA 5030B (Water)**

Matrix Spike Dup (B6G0701-MSD1)		Source: X607036-07			Prepared: 07/07/2016 Analyzed: 07/07/2016					
Benzene	48.8	1.00	ug/L	50.0	ND	97.7	74-130	8.36	20	
Toluene	51.6	1.00	"	50.0	0.110	103	73-131	10.9	20	
Ethylbenzene	43.7	1.00	"	50.0	ND	87.4	76-132	11.6	20	
m,p-Xylene	89.4	2.00	"	100	ND	89.4	69-139	10.9	20	
o-Xylene	44.5	1.00	"	50.0	ND	89.0	74-131	9.89	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.0	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: Carrizo

Project: Custy #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



July 29, 2016

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - Custy #1**

**Project Number - [none]**

Attached are your analytical results for Custy #1 received by Origins Laboratory, Inc. July 26, 2016. This project is associated with Origins project number X607286-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13 @ 10-12.5'	X607286-01	Soil	July 26, 2016 12:05	07/26/2016 17:22
MW-14 @ 5-7.5'	X607286-02	Soil	July 26, 2016 11:15	07/26/2016 17:22

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**ORIGINS**  
LABORATORY, INC

X007286

www.originslaboratory.com

page 1 of 1

Client: Eagle Env. Consulting  
Address: 4101 Inca St  
Denver, CO  
Telephone Number: 303 433 0174  
Email Address: coloccia@eagle-env.com

Project Manager: Dan Coloccia  
Project Name: Custy #1  
Project Number:  
Samples Collected By: E. Coloccia

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	LAB #	
MW-13 GS 10-12.5'	7-26-16	12:05	2	X				X				X	1
MW-14 GS 5-7.5'	7-26-16	11:15	2	X				X				X	2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 7-26-16 Time: 17:32

Relinquished By: [Signature] Date: 7-26-16 Time: 17:32

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Temp Received: 4.9 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X1607286

Client: Eagle Env.

Client Project ID: Custy #1

Checklist Completed by: Jeff Smith

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/27/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): X Soil/Solid        Water        Other:       

Cooler Number/Temperature: 1 / 49 °C        /        °C        /        °C (Describe)

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<u>✓</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>✓</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>✓</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>✓</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>✓</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>✓</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>✓</u>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<u>✓</u>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<u>✓</u>		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 7/27/16

Origins Laboratory, Inc.

*Jen Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

## MW-13 @ 10-12.5'

7/26/2016 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X607286-01 (Soil)

### Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G2802	07/28/2016	07/28/2016	U
Surrogate: o-Terphenyl	99.0 %	59-131			"	"	"	

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6G2602	07/26/2016	07/28/2016	U
Benzene	0.038	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**MW-14 @ 5-7.5'**

**7/26/2016 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X607286-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G2802	07/28/2016	07/28/2016	U
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Surrogate: o-Terphenyl	83.2 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6G2602	07/26/2016	07/28/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6G2602 - EPA 5030 (soil)</b>										
<b>Blank (B6G2602-BLK1)</b>					Prepared: 07/26/2016 Analyzed: 07/27/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G2602 - EPA 5030 (soil)

**LCS (B6G2602-BS1)**

Prepared: 07/26/2016 Analyzed: 07/26/2016

Benzene	0.099	0.002	mg/kg	0.100		98.8	77.1-124			
Toluene	0.098	0.002	"	0.100		98.2	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.203	0.004	"	0.200		102	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6G2602 - EPA 5030 (soil)</b>										
<b>LCS Dup (B6G2602-BSD1)</b>					Prepared: 07/26/2016 Analyzed: 07/26/2016					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124	6.14	20	
Toluene	0.103	0.002	"	0.100		103	74.5-128	5.20	20	
Ethylbenzene	0.112	0.002	"	0.100		112	66.4-127	10.0	20	
m,p-Xylene	0.226	0.004	"	0.200		113	76.6-124	10.8	20	
o-Xylene	0.116	0.002	"	0.100		116	76.6-124	16.3	20	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6G2602 - EPA 5030 (soil)**

Matrix Spike (B6G2602-MS1)		Source: X607222-01			Prepared: 07/26/2016 Analyzed: 07/27/2016					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6G2602 - EPA 5030 (soil)**

Matrix Spike Dup (B6G2602-MSD1)		Source: X607222-01			Prepared: 07/26/2016 Analyzed: 07/27/2016					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.673	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	0.321	15.4	
Ethylbenzene	0.108	0.002	"	0.100	ND	108	62.2-130	1.60	19.6	
m,p-Xylene	0.216	0.004	"	0.200	ND	108	46.5-137	1.96	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	1.22	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: Custy #1

## Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B6G2802 - EPA 3580

#### Blank (B6G2802-BLK1)

Prepared: 07/28/2016 Analyzed: 07/28/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		87.2	59-131			

#### LCS (B6G2802-BS1)

Prepared: 07/28/2016 Analyzed: 07/28/2016

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	64-121			
Surrogate: o-Terphenyl	45		"	50.0		90.9	59-131			

#### Matrix Spike (B6G2802-MS1)

Source: X607302-01

Prepared: 07/28/2016 Analyzed: 07/28/2016

Diesel (C10-C28)	936	50.0	mg/kg	1000	24.3	91.1	53-125			
Surrogate: o-Terphenyl	39		"	50.0		78.6	59-131			

#### Matrix Spike Dup (B6G2802-MSD1)

Source: X607302-01

Prepared: 07/28/2016 Analyzed: 07/28/2016

Diesel (C10-C28)	1140	50.0	mg/kg	1000	24.3	112	53-125	19.7	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Custy #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



August 10, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Custy #1**

**Project Number - [none]**

Attached are your analytical results for Custy #1 received by Origins Laboratory, Inc. August 04, 2016. This project is associated with Origins project number X608042-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13	X608042-01	Water	August 4, 2016 10:15	08/04/2016 11:20
MW-14	X608042-02	Water	August 4, 2016 10:00	08/04/2016 11:20

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Custy #1

www.originslaboratory.com

page 1 of 1

**ORIGINS**  
LABORATORY, INC

Client: EAGLE ENV CONSULTING  
Address: 4101 INCA ST  
DENVER, CO  
Telephone Number: 303 433 0479  
Email Address: MCE3@eagle-enviro.com

Project Manager: MARTIN ECKERT III  
Project Name: CUSTY #1  
Project Number: —  
Samples Collected By: AK

1725 Elk Place  
Denver, CO 80211  
Phone: 303.433.1322  
Fax: 303.265.9645

X608042

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		
M12-13	8/4/16	1015	3	X				X					1
M12-14	8/4/16	1000	3	X				X					2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: <i>[Signature]</i>	Date: 8/4/16	Time: 1120		Received By: <i>[Signature]</i>				Date: 8/4/16	Time: 1120	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard			
Relinquished By:	Date:	Time:		Received By:				Date:	Time:				

Date Results Needed: 8/4/16

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver

CO

80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X608042

Client: Eagle

Client Project ID: Custy #1

Checklist Completed by: Jeff Smith

Shipped Via: H&D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/4/12

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 1 / 4.5 °C 1 °C 1 °C 1 °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/4/12

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Custy #1

**MW-13**  
**8/4/2016 10:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X608042-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B6H0807	08/08/2016	08/09/2016	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121			"	"	"
Surrogate: Toluene-d8	98.0 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	84-114			"	"	"

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

## MW-14

8/4/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

## Origins Laboratory, Inc.

X608042-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6H0807	08/08/2016	08/09/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

109 %

84-121

"

"

"

Surrogate: Toluene-d8

99.9 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

95.4 %

84-114

"

"

"

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Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B6H0807 - EPA 5030B (Water)**

**Blank (B6H0807-BLK1)**

Prepared: 08/08/2016 Analyzed: 08/09/2016

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.2		85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.1		84-114			

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B6H0807 - EPA 5030B (Water)**

**LCS (B6H0807-BS1)**

Prepared: 08/08/2016 Analyzed: 08/09/2016

Benzene	55.0	1.00	ug/L	50.0	110	73.3-129
Toluene	55.6	1.00	"	50.0	111	76.2-123
Ethylbenzene	56.3	1.00	"	50.0	113	73.6-130
m,p-Xylene	113	2.00	"	100	113	76.1-126
o-Xylene	57.4	1.00	"	50.0	115	76.6-124
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102	84-121
Surrogate: Toluene-d8	62		"	62.5	99.6	85-115
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.0	84-114

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Jen Pellegrini For Noelle Doyle Mathis, President

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Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B6H0807 - EPA 5030B (Water)**

Matrix Spike (B6H0807-MS1)		Source: X608043-03			Prepared: 08/08/2016 Analyzed: 08/09/2016					
Benzene	59.6	1.00	ug/L	50.0	1.98	115	74-130			
Toluene	58.9	1.00	"	50.0	ND	118	73-131			
Ethylbenzene	61.5	1.00	"	50.0	ND	123	76-132			
m,p-Xylene	124	2.00	"	100	1.20	123	69-139			
o-Xylene	60.1	1.00	"	50.0	ND	120	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	84-114			

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Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Custy #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B6H0807 - EPA 5030B (Water)**

Matrix Spike Dup (B6H0807-MSD1)		Source: X608043-03			Prepared: 08/08/2016 Analyzed: 08/09/2016					
Benzene	60.2	1.00	ug/L	50.0	1.98	116	74-130	0.969	20	
Toluene	59.4	1.00	"	50.0	ND	119	73-131	0.980	20	
Ethylbenzene	62.2	1.00	"	50.0	ND	124	76-132	1.10	20	
m,p-Xylene	127	2.00	"	100	1.20	125	69-139	1.76	20	
o-Xylene	60.7	1.00	"	50.0	ND	121	74-131	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	84-114			

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Custy #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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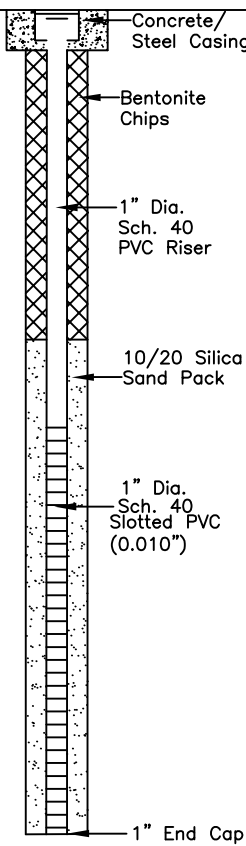
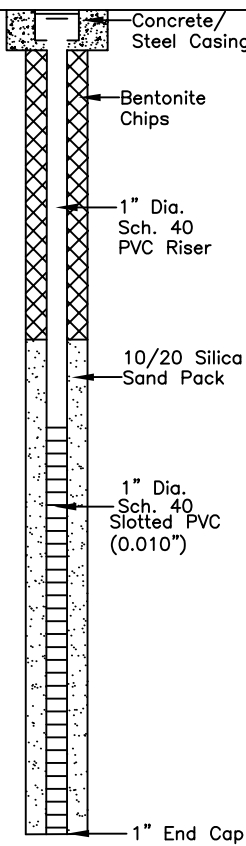
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## **ATTACHMENT B**

### **Soil Boring/Monitoring Well Completion Diagrams**

# Boring Log/Well Completion Diagram: MW-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 20-25% fine grained sand, dry, NO, NS	CL	GP	1	80	21	N/A	0		Well located within excavation limits, back-fill to approx, 17 feet bgs
						18				
5				2	100	24	N/A	5		
						31				
10	moist slight HC odor			3	100	103	N/A	10		
						430				
15				4	100	17	N/A	15		
						4				
20	silty CLAY, dark brown, medium stiff, high plasticity, well sorted with approx. 20-30% silt, wet, HC odor, NS	CL	GP							
	very stiff, NO, NS									
20	BoB @ 20'							20		
25								25		
30								30		

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 8-20'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-8'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 10-20'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0830/0910

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12.5/0911

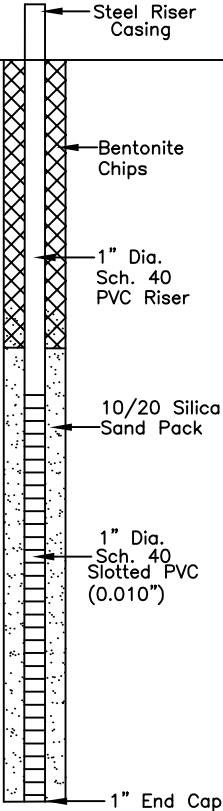


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# Boring Log/Well Completion Diagram: MW-02

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, lt. brown, moderately dense, well sorted with approx. 15-20% fine grained sand, dry, NO, NS	CL	GP	1	75	2	N/A			
						3				
5	silty sandy CLAY, dark brown, soft, high plasticity, well sorted with approx. 20% silt and 5-10% fine grained sand, moist, NO, NS			2	80	9	N/A			
						6				
10	silty CLAY, NO, NS			3	80	2	N/A			
						1				
15	very stiff			4	90	0	N/A			
20	BoB @ 18'									
25										
30										

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 6-18'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 0-6'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 8-18'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 18

WELL DEPTH (FEET): 18

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0910/0955

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/0941



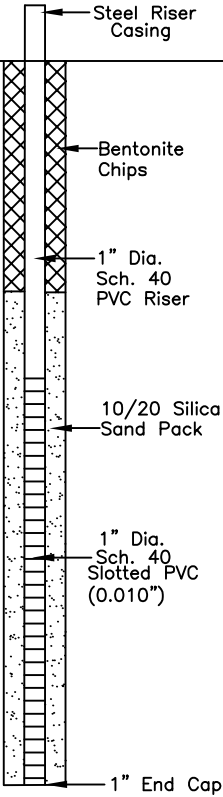
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# Boring Log/Well Completion Diagram: MW-03

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, lt. brown, moderately dense, well sorted with approx. 10-20% fine grained sand, dry, NO, NS	CL	GP	1	80	31	N/A			
						42				
5	sandy silty CLAY, dark brown, soft, moderate plasticity, well sorted with approx. 10% fine grained sand and 20% silt, moist, NO, NS			2	80	51	N/A	5		
						2				
10	silty CLAY, NO, NS			3	80	3	N/A	10		
						1				
15	very stiff			4	90	2	N/A	15		
	BoB @ 17.5'									
20								20		
25								25		
30										

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 5.5-17.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 0-5.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 7.5-17.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0955/1035

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1026

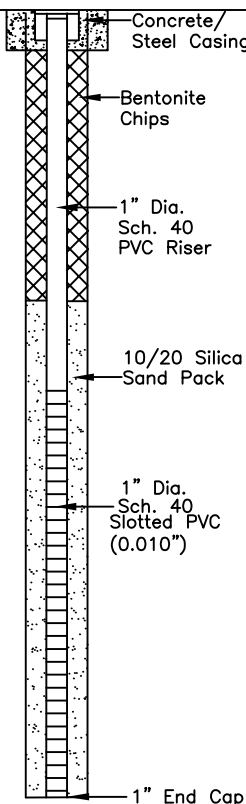


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# Boring Log/Well Completion Diagram: MW-04

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 10-15% fine grained sand, dry, NO, NS	CL	GP	1	75	1	N/A			
						2				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 25% fine grained sand and 20% silt, moist, NO, NS			2	60	1	N/A	5		
						3				
10				3	80	5	N/A	10		
						428				
15	black staining, HC odor			4	85	3	N/A	15		
						3				
20	BoB @ 19'							20		
25								25		
30								30		

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 7-19'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-7'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 9-19'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 19

WELL DEPTH (FEET): 19

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1035/1130

SAMPLE COLLECTION DEPTH (FEET)/TIME: 12.5-15/1129

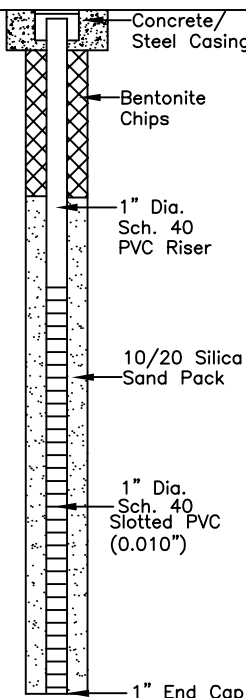


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# Boring Log/Well Completion Diagram: MW-05

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15% fine grained sand, dry, NO, NS			1	70	2	N/A			Refusal encountered
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 20% fine grained sand and 20% silt, moist, NO, NS			2	80	4	N/A	5		
10			GP			2		10		
15				3	80	1	N/A	15		
16.5	very stiff			4	30	1	N/A	16.5		
20	BoB @ 16.5'							20		
25								25		
30								30		

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 4.5-16'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-4.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 6-16'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 16.5

WELL DEPTH (FEET): 16.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1130/1235

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1210

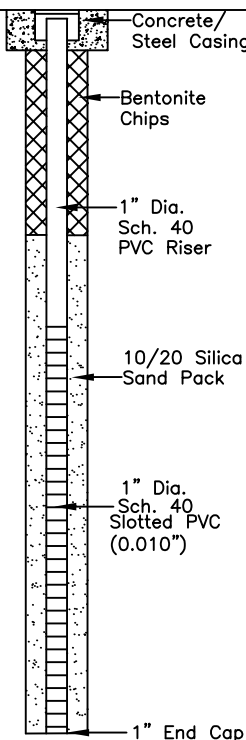


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# Boring Log/Well Completion Diagram: MW-06

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15-20% fine grained sand, dry, NO, NS	CL	GP	1	80	7	N/A			
						11				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 15% fine grained sand and 20% silt, moist, NO, NS			2	75	24	N/A	5		
						175				
10	slight HC odor, moist			3	70	201	N/A	10		
	slight HC odor, slight HC staining, wet					37				
	NO, NS									
15	very stiff			4	45	5	N/A	15		
	BoB @ 17.5'									
20								20		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
25								25		
30										

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 5.5–17.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1–5.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 7.5–17.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1235/1317

SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5–10/1307

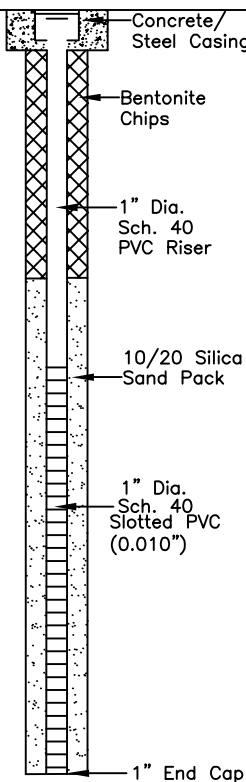


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# Boring Log/Well Completion Diagram: MW-07

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15% fine grained sand, dry, NO, NS	CL	GP	1	80	6	N/A			
						5				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 15-20% fine grained sand and 25% silt, moist, slight HC odor, slight grey staining			2	80	641	N/A	5		
						459				
10	strong HC odor, black HC staining, wet			3	70	651	N/A	10		
	NO, NS					10				
15	very stiff			4	60	8	N/A	15		
	BoB @ 18.5'									
20								20		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
25								25		
30										

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 6.5-18.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-6.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 8.5-18.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 18.5

WELL DEPTH (FEET): 18.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1317/1350

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1340

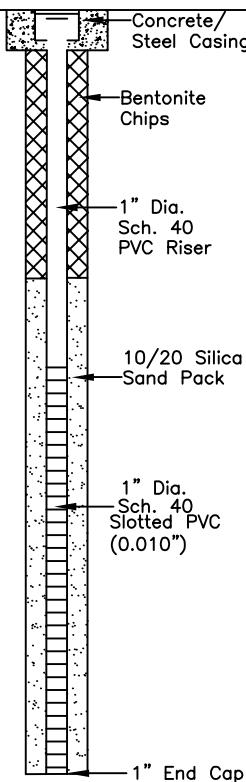


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# Boring Log/Well Completion Diagram: MW-08

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 10-15% fine grained sand, dry, NO, NS	CL	GP	1	65	2	N/A	0		
						3				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 15% fine grained sand and 15% silt, moist, NO, NS			2	65	6	N/A	5		
						4				
10				3	70	1	N/A	10		
						0				
15	very stiff			4	80	0	N/A	15		
	BoB @ 18.5'									
20								20		
25								25		
30								30		

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 6.5-18.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-6.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 8.5-18.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 18.5

WELL DEPTH (FEET): 18.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1350/1430

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1418

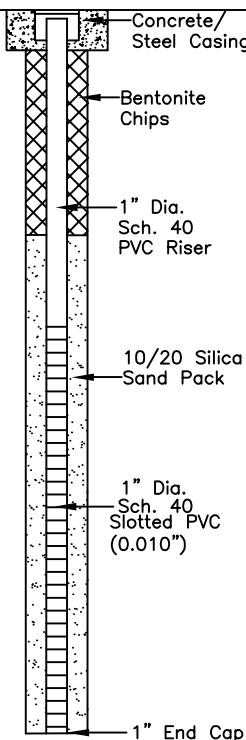


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# Boring Log/Well Completion Diagram: MW-09

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15% fine grained sand, dry, NO, NS	CL	GP	1	80	5	N/A			
						7				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 10-15% fine grained sand and 15-20% silt, moist, NO, NS			2	80	9	N/A	5		
						3				
10				3	75	2	N/A	10		
						2				
15				4	70	0	N/A	15		
17.5	very stiff BoB @ 17.5'									
20										
25										
30										

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 5.5-17.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-5.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 7.5-17.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1430/1500

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1453

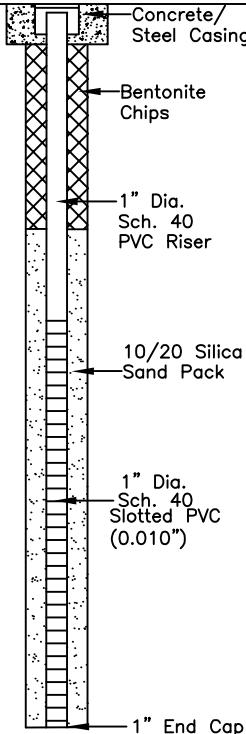


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# Boring Log/Well Completion Diagram: MW-10

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15% fine grained sand, dry, NO, NS	CL	GP	1	70	0	N/A			
						3				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 15-20% fine grained sand and 20% silt, moist, NO, NS			2	75	6	N/A	5		
						0				
10				3	80	0	N/A	10		
						0				
15	very stiff			4	80	0	N/A	15		
	BoB @ 17.5'									
20								20	<p>HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>	
25								25		
30										

START/COMPLETION DATE: 06/27/16

SAND PACK INTERVAL (FEET): 5.5–17.5'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1–5.5'

LOGGED BY: D. COLOCCIA

WELL SCREEN INTERVAL (FEET): 7.5–17.5'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1500/1540

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5–7.5/1534



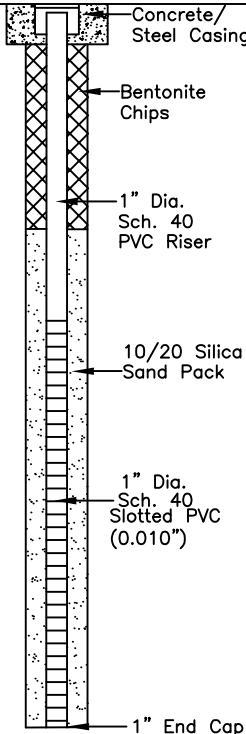
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# Boring Log/Well Completion Diagram: MW-11

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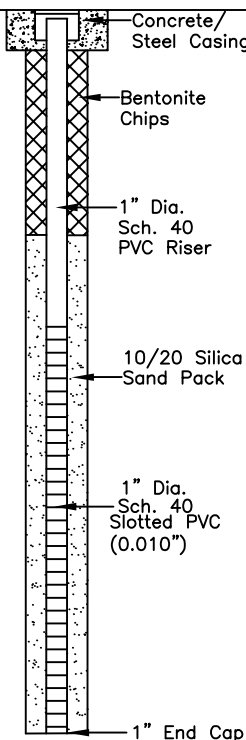
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15-20% fine grained sand, dry, NO, NS	CL	GP	1	70	0	N/A			
						3				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 20% fine grained sand and 25% silt, moist, NO, NS			2	75	8	N/A	5		
						2				
10				3	80	0	N/A	10		
						0				
15	very stiff			4	100	1	N/A	15		
	BoB @ 17.5'									
20								20		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
25								25		
30										

30


START/COMPLETION DATE: 06/27/16		SAND PACK INTERVAL (FEET): 5.5–17.5'	
PROJECT: CUSTY #1		BENTONITE/GROUT INTERVAL (FEET): 1–5.5'	
LOGGED BY: D. COLOCCIA		WELL SCREEN INTERVAL (FEET): 7.5–17.5'	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1"	
BORING DEPTH (FEET): 17.5	WELL DEPTH (FEET): 17.5	 <div><b>EAGLE</b> ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</div>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1540/1620			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5–7.5/1611			

# Boring Log/Well Completion Diagram: MW-12

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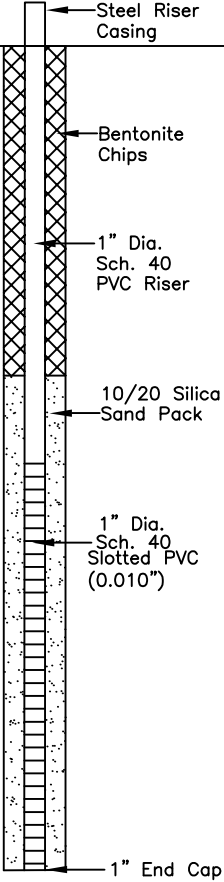
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 25% fine grained sand, dry, NO, NS	CL	GP	1	65	1	N/A	0		
						2	N/A			
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 20% fine grained sand and 20% silt, moist, NO, NS			2	70	8	N/A	5		
						5	N/A			
10				3	80	2	N/A	10		
						3	N/A			
15	very stiff			4	95	0	N/A	15		
	BoB @ 17.5'									
20								20	<p>HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>	
25								25		
30										

30

START/COMPLETION DATE: 06/27/16		SAND PACK INTERVAL (FEET): 5.5–17.5'	
PROJECT: CUSTY #1		BENTONITE/GROUT INTERVAL (FEET): 1–5.5'	
LOGGED BY: D. COLOCCIA		WELL SCREEN INTERVAL (FEET): 7.5–17.5'	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1"	
BORING DEPTH (FEET): 17.5	WELL DEPTH (FEET): 17.5	 <div><b>EAGLE</b> ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</div>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1620/1700			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5–7.5/1651			

# Boring Log/Well Completion Diagram: MW-13

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 20-25% fine grained sand, dry, NO, NS	CL	GP	1	90	0.0	N/A	0		
						0.0				
5				2	75	0.0	N/A	5		
						1.1				
10				3	80	1.7	N/A	10		
						1.1				
15	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 20% fine grained sand and 20% silt, moist, NO, NS			4	100	1.0	N/A	15		
						1.1				
20	very stiff, NO, NS							20		
	BoB @ 20'									
25								25		
30										

HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 07/26/16

SAND PACK INTERVAL (FEET): 8-20'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-8'

LOGGED BY: E. VONDE

WELL SCREEN INTERVAL (FEET): 10-20'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1150/1225

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12.5/1205

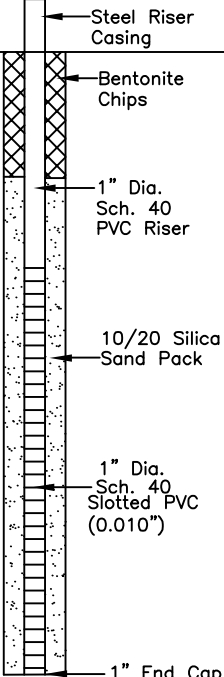


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# Boring Log/Well Completion Diagram: MW-14

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	sandy SILT, brown, moderately dense, well sorted with approx. 15% fine grained sand, dry, NO, NS			1	70	2	N/A		 <p>Steel Riser Casing</p> <p>Bentonite Chips</p> <p>1" Dia. Sch. 40 PVC Riser</p> <p>10/20 Silica Sand Pack</p> <p>1" Dia. Sch. 40 Slotted PVC (0.010")</p> <p>1" End Cap</p>	
						3				
5	sandy silty CLAY, brown, soft, moderate plasticity, well sorted with approx. 20% fine grained sand and 20% silt, moist, NO, NS		GP	2	80	4	N/A			
						2				
10		CL		3	80	1	N/A			
						2				
15	very stiff BoB @ 15'									<p>HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>

START/COMPLETION DATE: 07/26/16

SAND PACK INTERVAL (FEET): 4.-15'

PROJECT: CUSTY #1

BENTONITE/GROUT INTERVAL (FEET): 1-4'

LOGGED BY: E. VONDE

WELL SCREEN INTERVAL (FEET): 5-15'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1055/1145

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1115



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