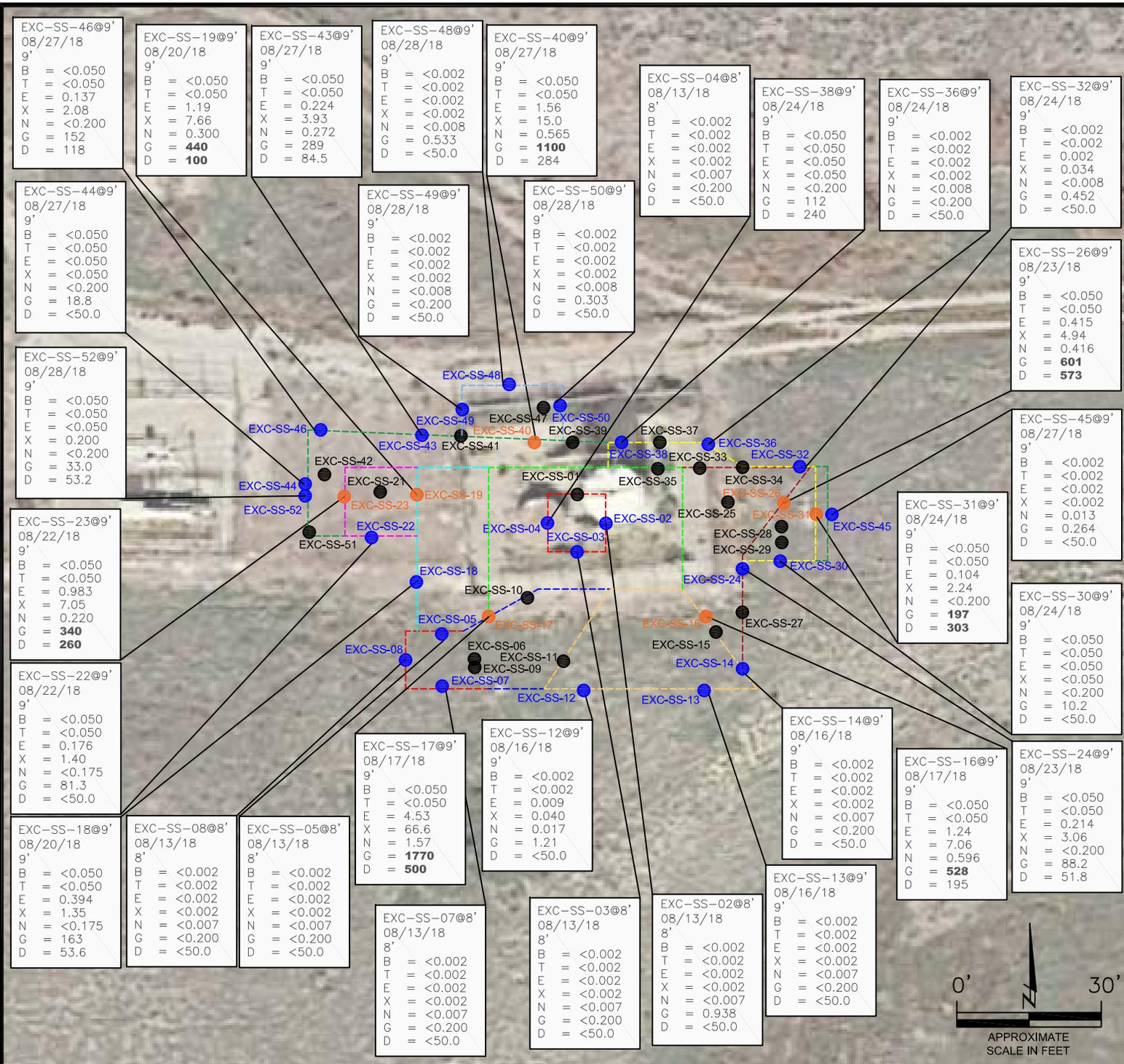




## **FIGURES**

**Figure 1: Excavation Soil Analytical Map – Field Copy**

**Figure 2: Excavation Groundwater Analytical Map – Field Copy**



- LEGEND**
- APPROXIMATE EXCAVATION BOUNDARIES 8/13/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/14/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/16/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/17/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/20/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/22/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/23/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/24/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/27/18
  - APPROXIMATE EXCAVATION BOUNDARIES 8/28/18

- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES ABOVE COGCC TABLE 910-1 - IMPACTS REMOVED
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES BELOW COGCC TABLE 910-1
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD ANALYZED WITH PHOTOIONIZATION DETECTOR (PID)

**PARAMETERS**

SOIL SAMPLE LOCATION	
DATE	08/27/18
DEPTH (FEET)	9'
B	<0.002
T	<0.002
E	<0.002
X	<0.002
N	0.013
G	0.264
D	<50.0

mg/kg = MILLIGRAMS PER KILOGRAM

mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

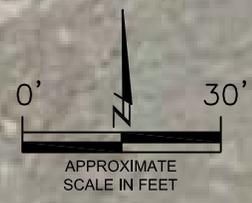
NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

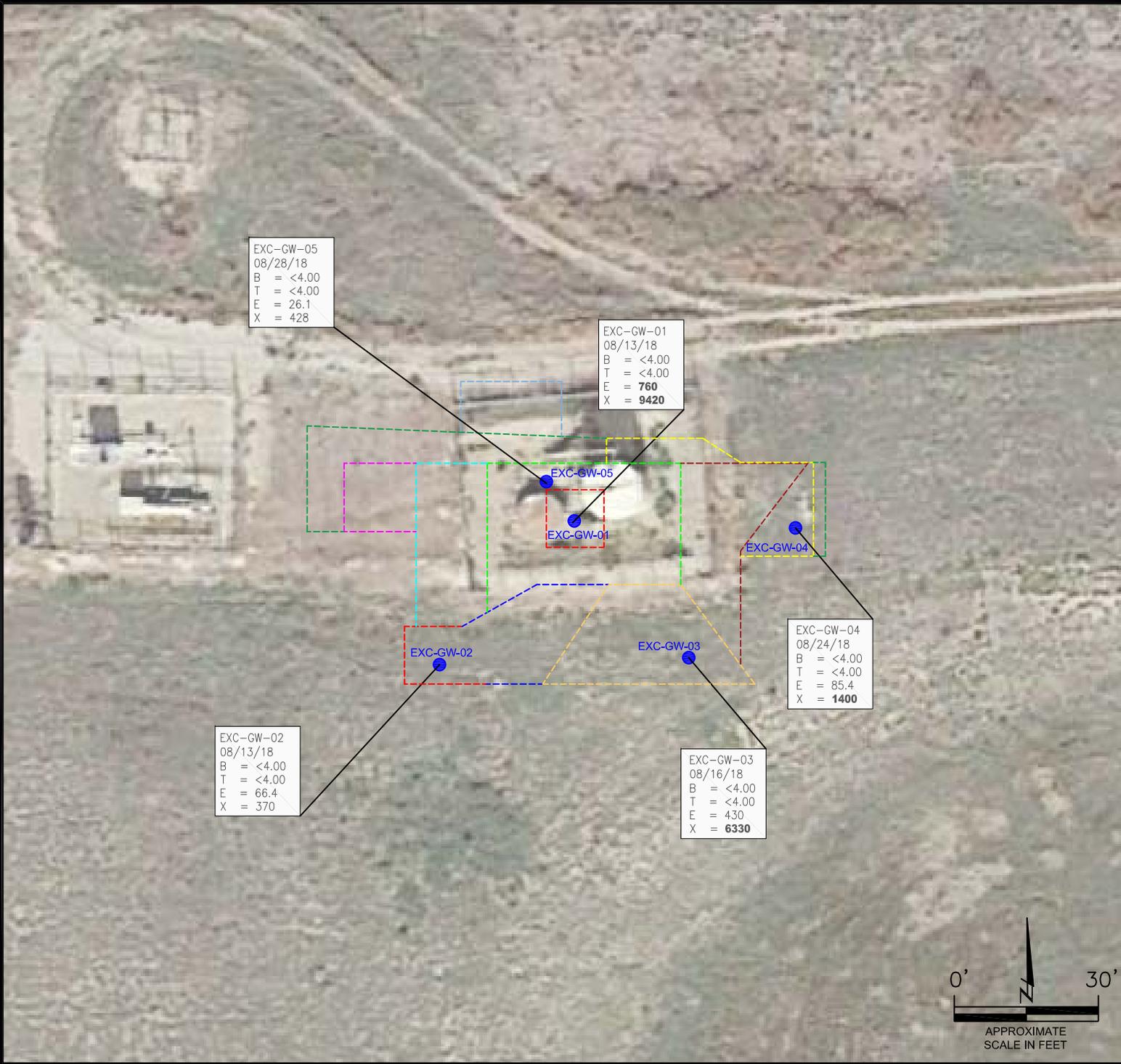
VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS FOR THE COMPOUND

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION SOIL ANALYTICAL MAP - FIELD COPY  
 RIDER #1  
 HISTORICAL RELEASE  
 40.178822 / -105.058512  
 NE1/4 SE1/4 SEC.36 T3N R69W 6PM  
 BOULDER COUNTY, COLORADO  
 REMEDIATION # 11300

DATE: 08/29/18  
 DRAWN BY: or  
 FIG. NO. 1





EXC-GW-05  
08/28/18  
B = <4.00  
T = <4.00  
E = 26.1  
X = 428

EXC-GW-01  
08/13/18  
B = <4.00  
T = <4.00  
E = **760**  
X = **9420**

EXC-GW-05

EXC-GW-01

EXC-GW-04

EXC-GW-02

EXC-GW-03

EXC-GW-04  
08/24/18  
B = <4.00  
T = <4.00  
E = 85.4  
X = **1400**

EXC-GW-02  
08/13/18  
B = <4.00  
T = <4.00  
E = 66.4  
X = 370

EXC-GW-03  
08/16/18  
B = <4.00  
T = <4.00  
E = 430  
X = **6330**

**LEGEND**

- APPROXIMATE EXCAVATION BOUNDARIES 8/13/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/14/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/16/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/17/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/20/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/22/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/23/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/24/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/27/18
- APPROXIMATE EXCAVATION BOUNDARIES 8/28/18

APPROXIMATE EXCAVATION GRAB GROUNDWATER SAMPLES COLLECTED FOR ANALYSIS

**PARAMETERS**

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

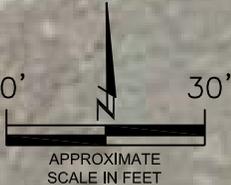
µg/L = MICROGRAMS PER LITER

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY REPORTING LIMITS.

EXCAVATION GROUNDWATER ANALYTICAL MAP – FIELD COPY  
RIDER #1  
HISTORICAL RELEASE  
40.178822 / -105.058512  
NE1/4 SE1/4 SEC.36 T3N R69W 6PM  
BOULDER COUNTY, COLORADO  
REMEDICATION # 11300



DATE:  
08/29/18  
DRAWN BY:  
or  
FIG. NO. 2



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



## **ATTACHMENT A**

### **Laboratory Analytical Reports**



August 14, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 13, 2018. This project is associated with Origins project number Y808160-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-02@8'	Y808160-01	Soil	August 13, 2018 11:05	08/13/2018 17:33
EXC-SS-03@8'	Y808160-02	Soil	August 13, 2018 11:10	08/13/2018 17:33
EXC-SS-04@8'	Y808160-03	Soil	August 13, 2018 11:15	08/13/2018 17:33
EXC-SS-05@8'	Y808160-04	Soil	August 13, 2018 14:25	08/13/2018 17:33
EXC-SS-07@8'	Y808160-05	Soil	August 13, 2018 14:35	08/13/2018 17:33
EXC-SS-08@8'	Y808160-06	Soil	August 13, 2018 14:40	08/13/2018 17:33
EXC-GW-01	Y808160-07	Water	August 13, 2018 13:00	08/13/2018 17:33
EXC-GW-02	Y808160-08	Water	August 13, 2018 15:00	08/13/2018 17:33

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

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

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4802160 Client: Eagle Env  
 Client Project ID: Rider #1  
 Checklist Completed by: [Signature] Shipped Via: HS  
 Date/time completed: 8-13-12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: RA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)  
 Cooler Number/Temperature: 1 / 2.9 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C  
 Thermometer ID: 1002

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<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) [Signature]

Date/Time Reviewed 8-13-12

Origins Laboratory, Inc.

[Signature: 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

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

**EXC-SS-02@8'**  
**8/13/2018 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-01 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
Surrogate: o-Terphenyl	79.7 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.938</b>	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	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

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

**EXC-SS-03@8'**  
**8/13/2018 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
<i>Surrogate: o-Terphenyl</i>	80.9 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	108 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	97.3 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.0 %	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

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

**EXC-SS-04@8'**  
**8/13/2018 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-03 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
<i>Surrogate: o-Terphenyl</i>	76.9 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.5 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-05@8'**  
**8/13/2018 2:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-04 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
Surrogate: <i>o</i> -Terphenyl	79.5 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	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

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

**EXC-SS-07@8'**  
**8/13/2018 2:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-05 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
<i>Surrogate: o-Terphenyl</i>	81.4 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.4 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	93.8 %	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

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

**EXC-SS-08@8'**  
**8/13/2018 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-06 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1307	KDK	08/13/2018	08/13/2018	U
<i>Surrogate: o-Terphenyl</i>	78.9 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1306	KDK	08/13/2018	08/13/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.007	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.6 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.1 %	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

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

**EXC-GW-01**

**8/13/2018 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808160-07 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B8H1310	KDK	08/13/2018	08/14/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>760</b>	100	"	100	"	KDK	"	08/13/2018	
Xylenes, total	<b>9420</b>	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"		"	
Surrogate: Toluene-d8	102 %	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

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

**EXC-GW-02**

**8/13/2018 3:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y808160-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B8H1310	KDK	08/13/2018	08/13/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>66.4</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>370</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1306 - EPA 5030 (soil)**

**Blank (B8H1306-BLK1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1306 - EPA 5030 (soil)**

**LCS (B8H1306-BS1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

Benzene	0.100	0.002	mg/kg	0.100		100	70-130			
Toluene	0.096	0.002	"	0.100		96.4	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.203	0.004	"	0.200		102	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Naphthalene	0.105	0.007	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1306 - EPA 5030 (soil)

Matrix Spike (B8H1306-MS1)	Source: Y808135-01			Prepared: 08/13/2018 Analyzed: 08/13/2018						
Benzene	0.119	0.002	mg/kg	0.100	0.033	85.9	70-130			
Toluene	0.083	0.002	"	0.100	ND	83.4	70-130			
Ethylbenzene	0.087	0.002	"	0.100	ND	87.2	70-130			
m,p-Xylene	0.174	0.004	"	0.200	0.001	86.5	70-130			
o-Xylene	0.091	0.002	"	0.100	0.003	87.8	70-130			
Naphthalene	0.081	0.007	"	0.100	ND	80.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1306 - EPA 5030 (soil)

Matrix Spike Dup (B8H1306-MSD1)	Source: Y808135-01			Prepared: 08/13/2018 Analyzed: 08/13/2018						
Benzene	0.117	0.002	mg/kg	0.100	0.033	83.9	70-130	1.69	20	
Toluene	0.081	0.002	"	0.100	ND	81.3	70-130	2.53	20	
Ethylbenzene	0.086	0.002	"	0.100	ND	85.6	70-130	1.90	20	
m,p-Xylene	0.172	0.004	"	0.200	0.001	85.2	70-130	1.50	20	
o-Xylene	0.089	0.002	"	0.100	0.003	86.3	70-130	1.72	20	
Naphthalene	0.080	0.007	"	0.100	ND	79.9	70-130	1.24	20	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1310 - EPA 5030B (Water)**

**Blank (B8H1310-BLK1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

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	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	84-114			

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1310 - EPA 5030B (Water)**

**LCS (B8H1310-BS1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

Benzene	53.2	1.00	ug/L	50.0		106	73.3-129			
Toluene	49.5	1.00	"	50.0		98.9	76.2-123			
Ethylbenzene	52.9	1.00	"	50.0		106	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	50.7	1.00	"	50.0		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1310 - EPA 5030B (Water)**

<b>Matrix Spike (B8H1310-MS1)</b>	<b>Source: Y808121-01</b>			<b>Prepared: 08/13/2018 Analyzed: 08/13/2018</b>						
Benzene	56.1	1.00	ug/L	50.0	ND	112	74-130			
Toluene	54.4	1.00	"	50.0	ND	109	73-131			
Ethylbenzene	58.1	1.00	"	50.0	0.060	116	76-132			
m,p-Xylene	114	2.00	"	100	ND	114	69-139			
o-Xylene	58.4	1.00	"	50.0	0.080	117	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.0	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1310 - EPA 5030B (Water)**

Matrix Spike Dup (B8H1310-MSD1)	Source: Y808121-01			Prepared: 08/13/2018 Analyzed: 08/14/2018						
Benzene	56.7	1.00	ug/L	50.0	ND	113	74-130	0.993	20	
Toluene	55.9	1.00	"	50.0	ND	112	73-131	2.68	20	
Ethylbenzene	60.8	1.00	"	50.0	0.060	122	76-132	4.64	20	
m,p-Xylene	119	2.00	"	100	ND	119	69-139	4.15	20	
o-Xylene	60.7	1.00	"	50.0	0.080	121	74-131	3.80	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1307 - EPA 3580**

**Blank (B8H1307-BLK1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

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

41			"	50.0		82.3	59-131			
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**LCS (B8H1307-BS1)**

Prepared: 08/13/2018 Analyzed: 08/13/2018

Diesel (C10-C28)	965	50.0	mg/kg	1000		96.5	64-121			
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Surrogate: o-Terphenyl

52			"	50.0		103	59-131			
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**Matrix Spike (B8H1307-MS1)**

**Source: Y808135-01**

Prepared: 08/13/2018 Analyzed: 08/13/2018

Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	53-125			
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Surrogate: o-Terphenyl

50			"	50.0		101	59-131			
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**Matrix Spike Dup (B8H1307-MSD1)**

**Source: Y808135-01**

Prepared: 08/13/2018 Analyzed: 08/13/2018

Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	53-125	3.22	20	
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Surrogate: o-Terphenyl

49			"	50.0		97.3	59-131			
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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

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

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**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.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



August 17, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 16, 2018. This project is associated with Origins project number Y808219-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-12@9'	Y808219-01	Soil	August 16, 2018 10:20	08/16/2018 16:55
EXC-SS-13@9'	Y808219-02	Soil	August 16, 2018 11:45	08/16/2018 16:55
EXC-SS-14@9'	Y808219-03	Soil	August 16, 2018 11:50	08/16/2018 16:55
EXC-GW-03	Y808219-04	Water	August 16, 2018 15:45	08/16/2018 16:55

Origins Laboratory, Inc.



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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y8082-19 Client: Eagle Env.  
 Checklist Completed by: Don Lee Client Project ID: Noelle - Rider # 1  
 Date/time completed: 5-16-13 Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: 2A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)  
 Cooler Number/Temperature: 1 / 4.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C  
 Thermometer ID: 1003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<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 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) [Signature] Date/Time Reviewed 5.16.13

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 4101 Inca Street  
 Denver CO 80211

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

**EXC-SS-12@9'**  
**8/16/2018 10:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808219-01 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1602	JTD	08/16/2018	08/16/2018	U
Surrogate: <i>o</i> -Terphenyl	74.0 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1.21	0.200	mg/kg	1	B8H1601	JTD	08/16/2018	08/16/2018	
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	0.009	0.002	"	"	"	JTD	"	"	
Xylenes, total	0.040	0.002	"	"	"	JTD	"	"	
Naphthalene	0.017	0.007	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

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

**EXC-SS-13@9'**  
**8/16/2018 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808219-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1602	JTD	08/16/2018	08/16/2018	U
<i>Surrogate: o-Terphenyl</i>	67.3 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1601	JTD	08/16/2018	08/16/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Napthalene	ND	0.007	"	"	"	JTD	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	97.1 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	91.7 %	70-130			"	"	"	"	

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 4101 Inca Street  
 Denver CO 80211

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

**EXC-SS-14@9'**  
**8/16/2018 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808219-03 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H1602	JTD	08/16/2018	08/16/2018	U
<i>Surrogate: o-Terphenyl</i>	74.0 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H1601	JTD	08/16/2018	08/16/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Napthalene	ND	0.007	"	"	"	JTD	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	97.4 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	91.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

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

**EXC-GW-03**

**8/16/2018 3:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808219-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B8H1606	JTD	08/16/2018	08/16/2018	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	<b>430</b>	4.00	"	"	"	JTD	"	"	
Xylenes, total	<b>6330</b>	100	"	100	"	JTD	"	08/16/2018	

Surrogate: 1,2-Dichloroethane-d4	95.5 %	84-121			"	"	"		
Surrogate: Toluene-d8	95.4 %	85-115			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"		

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1601 - EPA 5030 (soil)

**Blank (B8H1601-BLK1)**

Prepared: 08/16/2018 Analyzed: 08/16/2018

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.9	70-130			

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1601 - EPA 5030 (soil)

**LCS (B8H1601-BS1)**

Prepared: 08/16/2018 Analyzed: 08/16/2018

Benzene	0.093	0.002	mg/kg	0.100		92.7	70-130			
Toluene	0.093	0.002	"	0.100		93.2	70-130			
Ethylbenzene	0.092	0.002	"	0.100		92.1	70-130			
m,p-Xylene	0.170	0.004	"	0.200		84.9	70-130			
o-Xylene	0.089	0.002	"	0.100		88.9	70-130			
Naphthalene	0.091	0.007	"	0.100		90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1601 - EPA 5030 (soil)

Matrix Spike (B8H1601-MS1)	Source: Y808168-01			Prepared: 08/16/2018 Analyzed: 08/16/2018						
Benzene	0.100	0.002	mg/kg	0.100	ND	99.8	70-130			
Toluene	0.101	0.002	"	0.100	ND	101	70-130			
Ethylbenzene	0.099	0.002	"	0.100	ND	99.1	70-130			
m,p-Xylene	0.182	0.004	"	0.200	ND	91.2	70-130			
o-Xylene	0.095	0.002	"	0.100	ND	94.7	70-130			
Naphthalene	0.092	0.007	"	0.100	0.001	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1601 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B8H1601-MSD1)</b>	<b>Source: Y808168-01</b>			<b>Prepared: 08/16/2018 Analyzed: 08/16/2018</b>						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.1	70-130	5.88	20	
Toluene	0.093	0.002	"	0.100	ND	93.1	70-130	7.72	20	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.6	70-130	7.85	20	
m,p-Xylene	0.169	0.004	"	0.200	ND	84.7	70-130	7.47	20	
o-Xylene	0.088	0.002	"	0.100	ND	88.3	70-130	6.93	20	
Naphthalene	0.088	0.007	"	0.100	0.001	86.5	70-130	4.47	20	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1606 - EPA 5030B (Water)</b>										
<b>Blank (B8H1606-BLK1)</b>										
					Prepared: 08/16/2018 Analyzed: 08/16/2018					
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	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	58		"	62.5		93.3	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	84-114			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1606 - EPA 5030B (Water)**

**LCS (B8H1606-BS1)**

Prepared: 08/16/2018 Analyzed: 08/16/2018

Benzene	53.5	1.00	ug/L	50.0		107	73.3-129			
Toluene	46.4	1.00	"	50.0		92.9	76.2-123			
Ethylbenzene	55.5	1.00	"	50.0		111	73.6-130			
m,p-Xylene	106	2.00	"	100		106	76.1-126			
o-Xylene	51.4	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.1	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	84-114			

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1606 - EPA 5030B (Water)**

<b>Matrix Spike (B8H1606-MS1)</b>	<b>Source: Y808208-01</b>			<b>Prepared: 08/16/2018 Analyzed: 08/16/2018</b>						
Benzene	54.0	1.00	ug/L	50.0	1.23	105	74-130			
Toluene	45.5	1.00	"	50.0	0.160	90.7	73-131			
Ethylbenzene	56.1	1.00	"	50.0	0.200	112	76-132			
m,p-Xylene	106	2.00	"	100	0.360	106	69-139			
o-Xylene	54.9	1.00	"	50.0	0.190	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	58		"	62.5		93.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1606 - EPA 5030B (Water)**

Matrix Spike Dup (B8H1606-MSD1)	Source: Y808208-01			Prepared: 08/16/2018 Analyzed: 08/16/2018						
Benzene	54.7	1.00	ug/L	50.0	1.23	107	74-130	1.27	20	
Toluene	46.3	1.00	"	50.0	0.160	92.3	73-131	1.79	20	
Ethylbenzene	54.6	1.00	"	50.0	0.200	109	76-132	2.58	20	
m,p-Xylene	104	2.00	"	100	0.360	104	69-139	2.04	20	
o-Xylene	53.3	1.00	"	50.0	0.190	106	74-131	2.85	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1602 - EPA 3550B**

<b>Blank (B8H1602-BLK1)</b>					Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	39		"	50.0		78.7	59-131			
<b>Blank (B8H1602-BLK2)</b>					Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	71		"	50.0		141	59-131			
<b>LCS (B8H1602-BS1)</b>					Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	64-121			
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			
<b>LCS (B8H1602-BS2)</b>					Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
<b>Matrix Spike (B8H1602-MS1)</b>		<b>Source: Y808199-02</b>			Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	53-125			
Surrogate: o-Terphenyl	47		"	50.0		94.8	59-131			
<b>Matrix Spike (B8H1602-MS2)</b>		<b>Source: Y808219-01</b>			Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	940	50.0	mg/kg	1000	ND	94.0	53-125			
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			

Origins Laboratory, Inc.



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 Denver CO 80211

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

**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 B8H1602 - EPA 3550B**

<b>Matrix Spike Dup (B8H1602-MSD1)</b>		<b>Source: Y808199-02</b>			Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	53-125	0.143	20	
Surrogate: o-Terphenyl	48		"	50.0		95.5	59-131			
<b>Matrix Spike Dup (B8H1602-MSD2)</b>		<b>Source: Y808219-01</b>			Prepared: 08/16/2018 Analyzed: 08/16/2018					
Diesel (C10-C28)	876	50.0	mg/kg	1000	ND	87.6	53-125	6.95	20	
Surrogate: o-Terphenyl	42		"	50.0		84.5	59-131			

Origins Laboratory, Inc.



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

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

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**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.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



August 20, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 17, 2018. This project is associated with Origins project number Y808256-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-16@9'	Y808256-01	Soil	August 17, 2018 13:15	08/17/2018 17:25
EXC-SS-17@9'	Y808256-02	Soil	August 17, 2018 16:25	08/17/2018 17:25

Origins Laboratory, Inc.



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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: Rider #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 7802256

Client: Eagle Env.

Client Project ID: Rider #1

Checklist Completed by: DM Lee

Shipped Via: 10  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-17-12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.8 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 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) [Signature]

Date/Time Reviewed 6-17-12

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: Rider #1

**EXC-SS-16@9'**  
**8/17/2018 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808256-01 (Soil)**

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

Diesel (C10-C28)	195	50.0	mg/kg	1	B8H1704	KDK	08/17/2018	08/17/2018	
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Surrogate: <i>o</i> -Terphenyl	70.2 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	528	50.0	mg/kg	250	B8H1703	KDK	08/17/2018	08/17/2018	
Benzene	ND	0.050	"	25	"	KDK	"	08/18/2018	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	1.24	0.050	"	"	"	KDK	"	"	
Xylenes, total	7.06	0.050	"	"	"	KDK	"	"	
Naphthalene	0.596	0.175	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	126 %	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

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

**EXC-SS-17@9'**  
**8/17/2018 4:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808256-02 (Soil)**

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

Diesel (C10-C28)	500	50.0	mg/kg	1	B8H1704	KDK	08/17/2018	08/17/2018	
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Surrogate: <i>o</i> -Terphenyl	71.5 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1770	50.0	mg/kg	250	B8H1703	KDK	08/17/2018	08/17/2018	
Benzene	ND	0.050	"	25	"	KDK	"	08/18/2018	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	4.53	0.050	"	"	"	KDK	"	"	
Xylenes, total	66.6	0.498	"	250	"	KDK	"	"	
Naphthalene	1.57	0.175	"	25	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		08/17/2018	
Surrogate: Toluene-d8	94.6 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"		"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1703 - EPA 5030 (soil)**

**Blank (B8H1703-BLK1)**

Prepared: 08/17/2018 Analyzed: 08/17/2018

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1703 - EPA 5030 (soil)**

**LCS (B8H1703-BS1)**

Prepared: 08/17/2018 Analyzed: 08/17/2018

Benzene	0.112	0.002	mg/kg	0.100		112	70-130			
Toluene	0.111	0.002	"	0.100		111	70-130			
Ethylbenzene	0.109	0.002	"	0.100		109	70-130			
m,p-Xylene	0.219	0.004	"	0.200		110	70-130			
o-Xylene	0.109	0.002	"	0.100		109	70-130			
Naphthalene	0.090	0.007	"	0.100		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1703 - EPA 5030 (soil)

Matrix Spike (B8H1703-MS1)	Source: Y808239-01			Prepared: 08/17/2018 Analyzed: 08/17/2018						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.096	0.002	"	0.100	ND	95.9	70-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.5	70-130			
m,p-Xylene	0.189	0.004	"	0.200	ND	94.7	70-130			
o-Xylene	0.095	0.002	"	0.100	0.0003	94.9	70-130			
Naphthalene	0.066	0.007	"	0.100	0.008	58.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1703 - EPA 5030 (soil)

Matrix Spike Dup (B8H1703-MSD1)	Source: Y808239-01			Prepared: 08/17/2018 Analyzed: 08/17/2018						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.6	70-130	4.00	20	
Toluene	0.090	0.002	"	0.100	ND	89.7	70-130	6.77	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	89.8	70-130	5.16	20	
m,p-Xylene	0.179	0.004	"	0.200	ND	89.7	70-130	5.51	20	
o-Xylene	0.091	0.002	"	0.100	0.0003	91.1	70-130	4.06	20	
Naphthalene	0.061	0.007	"	0.100	0.008	53.0	70-130	7.86	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H1704 - EPA 3550B**

**Blank (B8H1704-BLK1)**

Prepared: 08/17/2018 Analyzed: 08/17/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	48		"	50.0		96.8	59-131			

**LCS (B8H1704-BS1)**

Prepared: 08/17/2018 Analyzed: 08/17/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	64-121			
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

**Matrix Spike (B8H1704-MS1)**

**Source: Y808239-01**

Prepared: 08/17/2018 Analyzed: 08/17/2018

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	53-125			
Surrogate: o-Terphenyl	50		"	50.0		99.1	59-131			

**Matrix Spike Dup (B8H1704-MSD1)**

**Source: Y808239-01**

Prepared: 08/17/2018 Analyzed: 08/17/2018

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	53-125	0.156	20	
Surrogate: o-Terphenyl	48		"	50.0		97.0	59-131			

Origins Laboratory, Inc.



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

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

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**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.*



August 21, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 20, 2018. This project is associated with Origins project number Y808265-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-18@9'	Y808265-01	Soil	August 20, 2018 12:05	08/20/2018 17:15
EXC-SS-19@9'	Y808265-02	Soil	August 20, 2018 13:45	08/20/2018 17:15

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: Rider #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y808265

Client: Eagle

Client Project ID: Rider #1

Checklist Completed by: JG

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

Date/time completed: 8/20/14

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.2 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C

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>	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 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.

[Signature]  
 Reviewed by (Project Manager)

8/20/14  
 Date/Time Reviewed

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: Rider #1

**EXC-SS-18@9'**  
**8/20/2018 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808265-01 (Soil)**

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

Diesel (C10-C28)	53.6	50.0	mg/kg	1	B8H2009	KDK	08/20/2018	08/21/2018	
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Surrogate: <i>o</i> -Terphenyl	72.8 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	163	5.00	mg/kg	25	B8H2008	KDK	08/20/2018	08/20/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.394	0.050	"	"	"	KDK	"	"	
Xylenes, total	1.35	0.050	"	"	"	KDK	"	"	
Naphthalene	ND	0.175	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-19@9'**  
**8/20/2018 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808265-02 (Soil)**

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

Diesel (C10-C28)	100	50.0	mg/kg	1	B8H2009	KDK	08/20/2018	08/21/2018	
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Surrogate: <i>o</i> -Terphenyl	76.2 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	440	50.0	mg/kg	250	B8H2008	KDK	08/20/2018	08/20/2018	
Benzene	ND	0.050	"	25	"	KDK	"	08/20/2018	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	1.19	0.050	"	"	"	KDK	"	"	
Xylenes, total	7.66	0.050	"	"	"	KDK	"	"	
Napthalene	0.300	0.175	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

**Blank (B8H2008-BLK1)**

Prepared: 08/20/2018 Analyzed: 08/20/2018

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.8	70-130			
Surrogate: Toluene-d8	72		"	62.5		115	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

**Blank (B8H2008-BLK2)**

Prepared: 08/20/2018 Analyzed: 08/20/2018

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)**

**LCS (B8H2008-BS1)**

Prepared: 08/20/2018 Analyzed: 08/20/2018

Benzene	0.113	0.002	mg/kg	0.100		113	70-130			
Toluene	0.111	0.002	"	0.100		111	70-130			
Ethylbenzene	0.111	0.002	"	0.100		111	70-130			
m,p-Xylene	0.221	0.004	"	0.200		111	70-130			
o-Xylene	0.109	0.002	"	0.100		109	70-130			
Naphthalene	0.083	0.007	"	0.100		82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

**LCS (B8H2008-BS2)**

Prepared: 08/20/2018 Analyzed: 08/20/2018

Benzene	0.106	0.002	mg/kg	0.100		106	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.208	0.004	"	0.200		104	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
Naphthalene	0.086	0.007	"	0.100		86.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

Matrix Spike (B8H2008-MS1)	Source: Y808259-05			Prepared: 08/20/2018 Analyzed: 08/20/2018						
Benzene	0.083	0.002	mg/kg	0.100	83.5	70-130				
Toluene	0.082	0.002	"	0.100	82.1	70-130				
Ethylbenzene	0.076	0.002	"	0.100	76.4	70-130				
m,p-Xylene	0.156	0.004	"	0.200	77.8	70-130				
o-Xylene	0.078	0.002	"	0.100	78.0	70-130				
Naphthalene	0.071	0.007	"	0.100	71.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5	100	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.1	70-130				
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.6	70-130				

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

Matrix Spike (B8H2008-MS2)	Source: Y808264-01			Prepared: 08/20/2018 Analyzed: 08/20/2018						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130			
Toluene	0.107	0.002	"	0.100	ND	107	70-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	70-130			
m,p-Xylene	0.218	0.004	"	0.200	ND	109	70-130			
o-Xylene	0.109	0.002	"	0.100	ND	109	70-130			
Naphthalene	0.085	0.007	"	0.100	ND	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

Matrix Spike Dup (B8H2008-MSD1)	Source: Y808259-05			Prepared: 08/20/2018 Analyzed: 08/20/2018						
Benzene	0.103	0.002	mg/kg	0.100	103	70-130	21.2	20	QR-02	
Toluene	0.102	0.002	"	0.100	102	70-130	21.2	20	QR-02	
Ethylbenzene	0.096	0.002	"	0.100	96.2	70-130	22.9	20	QR-02	
m,p-Xylene	0.195	0.004	"	0.200	97.4	70-130	22.3	20	QR-02	
o-Xylene	0.097	0.002	"	0.100	96.6	70-130	21.3	20	QR-02	
Naphthalene	0.085	0.007	"	0.100	85.0	70-130	17.9	20		
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5	99.6	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.8	70-130				
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.1	70-130				

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2008 - EPA 5030 (soil)

Matrix Spike Dup (B8H2008-MSD2)	Source: Y808264-01			Prepared: 08/20/2018 Analyzed: 08/20/2018						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	0.463	20	
Toluene	0.105	0.002	"	0.100	ND	105	70-130	2.00	20	
Ethylbenzene	0.106	0.002	"	0.100	ND	106	70-130	3.17	20	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	70-130	4.58	20	
o-Xylene	0.104	0.002	"	0.100	ND	104	70-130	4.83	20	
Naphthalene	0.078	0.007	"	0.100	ND	77.6	70-130	8.86	20	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2009 - EPA 3550B**

<b>Blank (B8H2009-BLK1)</b>					Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	43		"	50.0		85.5	59-131			
<b>Blank (B8H2009-BLK2)</b>					Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	37		"	50.0		74.4	59-131			
<b>LCS (B8H2009-BS1)</b>					Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	919	50.0	mg/kg	1000		91.9	64-121			
Surrogate: o-Terphenyl	48		"	50.0		95.0	59-131			
<b>LCS (B8H2009-BS2)</b>					Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	905	50.0	mg/kg	1000		90.5	64-121			
Surrogate: o-Terphenyl	45		"	50.0		90.3	59-131			
<b>Matrix Spike (B8H2009-MS1)</b>					<b>Source: Y808259-05</b>		Prepared: 08/20/2018 Analyzed: 08/20/2018			
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	53-125			
Surrogate: o-Terphenyl	46		"	50.0		92.1	59-131			
<b>Matrix Spike (B8H2009-MS2)</b>					<b>Source: Y808264-01</b>		Prepared: 08/20/2018 Analyzed: 08/20/2018			
Diesel (C10-C28)	929	50.0	mg/kg	1000	16.2	91.3	53-125			
Surrogate: o-Terphenyl	43		"	50.0		85.8	59-131			

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 4101 Inca Street  
 Denver CO 80211

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

**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
<b>Batch B8H2009 - EPA 3550B</b>										
<b>Matrix Spike Dup (B8H2009-MSD1)</b>		<b>Source: Y808259-05</b>			Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	908	50.0	mg/kg	1000	ND	90.8	53-125	1.39	20	
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			
<b>Matrix Spike Dup (B8H2009-MSD2)</b>		<b>Source: Y808264-01</b>			Prepared: 08/20/2018 Analyzed: 08/20/2018					
Diesel (C10-C28)	886	50.0	mg/kg	1000	16.2	87.0	53-125	4.69	20	
Surrogate: o-Terphenyl	45		"	50.0		90.9	59-131			

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

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

---

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



August 23, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 22, 2018. This project is associated with Origins project number Y808304-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-22@9'	Y808304-01	Soil	August 22, 2018 11:40	08/22/2018 16:15
EXC-SS-23@9'	Y808304-02	Soil	August 22, 2018 11:45	08/22/2018 16:15

Origins Laboratory, Inc.



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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: Rider #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 7908304

Client: Eagle  
 Client Project ID: Rider #1

Checklist Completed by: JG

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 8/22/2018

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

Cooler Number/Temperature: 1 / 2.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 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.

[Signature]  
 Reviewed by (Project Manager)

8/22/18  
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

**EXC-SS-22@9'**  
**8/22/2018 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808304-01 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2204	JTD	08/22/2018	08/22/2018	U
Surrogate: <i>o</i> -Terphenyl	88.5 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>81.3</b>	5.00	mg/kg	25	B8H2202	JTD	08/22/2018	08/22/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	<b>0.176</b>	0.050	"	"	"	JTD	"	"	
Xylenes, total	<b>1.40</b>	0.050	"	"	"	JTD	"	"	
Napthalene	ND	0.175	"	"	"	JTD	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-23@9'**  
**8/22/2018 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808304-02 (Soil)**

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

Diesel (C10-C28)	260	50.0	mg/kg	1	B8H2204	JTD	08/22/2018	08/22/2018	
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Surrogate: <i>o</i> -Terphenyl	74.6 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	340	5.00	mg/kg	25	B8H2202	JTD	08/22/2018	08/22/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.983	0.050	"	"	"	JTD	"	"	
Xylenes, total	7.05	0.050	"	"	"	JTD	"	"	
Naphthalene	0.220	0.175	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	86.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	124 %	70-130			"	"	"	"	

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

**Blank (B8H2202-BLK1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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 Project: Rider #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 B8H2202 - EPA 5030 (soil)

**LCS (B8H2202-BS1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Benzene	0.108	0.002	mg/kg	0.100		108	70-130			
Toluene	0.108	0.002	"	0.100		108	70-130			
Ethylbenzene	0.118	0.002	"	0.100		118	70-130			
m,p-Xylene	0.235	0.004	"	0.200		118	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Naphthalene	0.119	0.007	"	0.100		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

Matrix Spike (B8H2202-MS1)	Source: Y808287-01			Prepared: 08/22/2018 Analyzed: 08/22/2018						
Benzene	0.111	0.002	mg/kg	0.100	0.001	110	70-130			
Toluene	0.108	0.002	"	0.100	ND	108	70-130			
Ethylbenzene	0.123	0.002	"	0.100	ND	123	70-130			
m,p-Xylene	0.254	0.004	"	0.200	ND	127	70-130			
o-Xylene	0.117	0.002	"	0.100	ND	117	70-130			
Naphthalene	0.108	0.007	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

Matrix Spike Dup (B8H2202-MSD1)	Source: Y808287-01			Prepared: 08/22/2018 Analyzed: 08/22/2018						
Benzene	0.111	0.002	mg/kg	0.100	0.001	110	70-130	0.198	20	
Toluene	0.110	0.002	"	0.100	ND	110	70-130	1.10	20	
Ethylbenzene	0.126	0.002	"	0.100	ND	126	70-130	1.98	20	
m,p-Xylene	0.258	0.004	"	0.200	ND	129	70-130	1.38	20	
o-Xylene	0.120	0.002	"	0.100	ND	120	70-130	2.01	20	
Naphthalene	0.111	0.007	"	0.100	ND	111	70-130	2.63	20	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2204 - EPA 3550B**

**Blank (B8H2204-BLK1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	42		"	50.0		84.4	59-131			

**LCS (B8H2204-BS1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**Matrix Spike (B8H2204-MS1)**

**Source: Y808286-01**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1100	50.0	mg/kg	1000	73.3	102	53-125			
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

**Matrix Spike Dup (B8H2204-MSD1)**

**Source: Y808286-01**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1100	50.0	mg/kg	1000	73.3	103	53-125	0.512	20	
Surrogate: o-Terphenyl	53		"	50.0		106	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

Martin C Eckert III  
Project Number: [none]  
Project: Rider #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 23, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 22, 2018. This project is associated with Origins project number Y808304-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-22@9'	Y808304-01	Soil	August 22, 2018 11:40	08/22/2018 16:15
EXC-SS-23@9'	Y808304-02	Soil	August 22, 2018 11:45	08/22/2018 16:15

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: Rider #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 7908304

Client: Eagle  
 Client Project ID: Rider #1

Checklist Completed by: JG

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 8/22/2018

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

Cooler Number/Temperature: 1 / 2.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 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.

[Signature]  
 Reviewed by (Project Manager)

8/22/18  
 Date/Time Reviewed

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: Rider #1

**EXC-SS-22@9'**  
**8/22/2018 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808304-01 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2204	JTD	08/22/2018	08/22/2018	U
Surrogate: o-Terphenyl	88.5 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>81.3</b>	5.00	mg/kg	25	B8H2202	JTD	08/22/2018	08/22/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	<b>0.176</b>	0.050	"	"	"	JTD	"	"	
Xylenes, total	<b>1.40</b>	0.050	"	"	"	JTD	"	"	
Naphthalene	ND	0.175	"	"	"	JTD	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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

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

**EXC-SS-23@9'**  
**8/22/2018 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808304-02 (Soil)**

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

Diesel (C10-C28)	260	50.0	mg/kg	1	B8H2204	JTD	08/22/2018	08/22/2018	
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Surrogate: o-Terphenyl	74.6 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	340	5.00	mg/kg	25	B8H2202	JTD	08/22/2018	08/22/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.983	0.050	"	"	"	JTD	"	"	
Xylenes, total	7.05	0.050	"	"	"	JTD	"	"	
Napthalene	0.220	0.175	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	86.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	124 %	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

**Blank (B8H2202-BLK1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)**

**LCS (B8H2202-BS1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Benzene	0.108	0.002	mg/kg	0.100		108	70-130			
Toluene	0.108	0.002	"	0.100		108	70-130			
Ethylbenzene	0.118	0.002	"	0.100		118	70-130			
m,p-Xylene	0.235	0.004	"	0.200		118	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Naphthalene	0.119	0.007	"	0.100		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

Matrix Spike (B8H2202-MS1)	Source: Y808287-01			Prepared: 08/22/2018 Analyzed: 08/22/2018						
Benzene	0.111	0.002	mg/kg	0.100	0.001	110	70-130			
Toluene	0.108	0.002	"	0.100	ND	108	70-130			
Ethylbenzene	0.123	0.002	"	0.100	ND	123	70-130			
m,p-Xylene	0.254	0.004	"	0.200	ND	127	70-130			
o-Xylene	0.117	0.002	"	0.100	ND	117	70-130			
Naphthalene	0.108	0.007	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2202 - EPA 5030 (soil)

Matrix Spike Dup (B8H2202-MSD1)	Source: Y808287-01			Prepared: 08/22/2018 Analyzed: 08/22/2018						
Benzene	0.111	0.002	mg/kg	0.100	0.001	110	70-130	0.198	20	
Toluene	0.110	0.002	"	0.100	ND	110	70-130	1.10	20	
Ethylbenzene	0.126	0.002	"	0.100	ND	126	70-130	1.98	20	
m,p-Xylene	0.258	0.004	"	0.200	ND	129	70-130	1.38	20	
o-Xylene	0.120	0.002	"	0.100	ND	120	70-130	2.01	20	
Naphthalene	0.111	0.007	"	0.100	ND	111	70-130	2.63	20	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	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.*

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2204 - EPA 3550B**

**Blank (B8H2204-BLK1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	42		"	50.0		84.4	59-131			

**LCS (B8H2204-BS1)**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**Matrix Spike (B8H2204-MS1)**

**Source: Y808286-01**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1100	50.0	mg/kg	1000	73.3	102	53-125			
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

**Matrix Spike Dup (B8H2204-MSD1)**

**Source: Y808286-01**

Prepared: 08/22/2018 Analyzed: 08/22/2018

Diesel (C10-C28)	1100	50.0	mg/kg	1000	73.3	103	53-125	0.512	20	
Surrogate: o-Terphenyl	53		"	50.0		106	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

Martin C Eckert III  
Project Number: [none]  
Project: Rider #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.*



August 24, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 23, 2018. This project is associated with Origins project number Y808335-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-24@9'	Y808335-01	Soil	August 23, 2018 9:55	08/23/2018 16:00
EXC-SS-26@9'	Y808335-02	Soil	August 23, 2018 14:05	08/23/2018 16:00

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: Rider #1

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 page 1 of 1

**1008335**

**ORIGINS**  
 LABORATORY, INC

Client: EAGLE ENV CONSULTING  
 Address: 4101 INCA ST  
DENVER, CO  
 Telephone Number: 303 433 0479  
 Email Address: MCE@Eagle-Enviro.com

Project Manager: MARTIN ECKERT  
 Project Name: RIDER #1  
 Project Number:                       
 Samples Collected By: ME

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 #	Other	GREY	DR	ZINC/LEAD			
EXC-55-2409	8/23/18	955	2	X					X				X			
EXC-55-2509	8/23/18	1405	2	X					X				X			
9p 26																
ID changed per the email from Alex on 8/24/18.gp																
Relinquished By:	Date: 8/23/18	Time: 600	Received By:	Date: 8/23/18	Time: 1600	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										
Relinquished By:	Date:	Time:	Received By:	Date:	Time:											

Relinquished By: Alex Hoxby, Martin Eckert, Robert  
 Temp Received: 50  
 Date Results Needed

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

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: Rider #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y808335

Client: Eagle

Client Project ID: Rider #1

Checklist Completed by: JG

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

Date/time completed: 8/23/2018

Airbill #: N/A

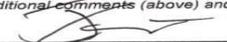
Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Cooler Number/Temperature: 1 / 5.0 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>			<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 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)

8/23/18  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

**EXC-SS-24@9'**  
**8/23/2018 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808335-01 (Soil)**

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

Diesel (C10-C28)	51.8	50.0	mg/kg	1	B8H2306	JTD	08/23/2018	08/23/2018	
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Surrogate: <i>o</i> -Terphenyl	77.6 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	88.2	5.00	mg/kg	25	B8H2305	JTD	08/23/2018	08/23/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.214	0.050	"	"	"	JTD	"	"	
Xylenes, total	3.06	0.050	"	"	"	JTD	"	"	
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-26@9'**  
**8/23/2018 2:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808335-02 (Soil)**

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

Diesel (C10-C28)	573	50.0	mg/kg	1	B8H2306	JTD	08/23/2018	08/23/2018
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Surrogate: o-Terphenyl	75.9 %	59-131			"	"	"
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	601	50.0	mg/kg	250	B8H2305	JTD	08/23/2018	08/23/2018	
Benzene	ND	0.050	"	25	"	JTD	"	08/24/2018	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.415	0.050	"	"	"	JTD	"	"	
Xylenes, total	4.94	0.050	"	"	"	JTD	"	"	
Naphthalene	0.416	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	08/23/2018
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

**Blank (B8H2305-BLK1)**

Prepared: 08/23/2018 Analyzed: 08/23/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

**Blank (B8H2305-BLK2)**

Prepared: 08/23/2018 Analyzed: 08/23/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)**

**LCS (B8H2305-BS1)**

Prepared: 08/23/2018 Analyzed: 08/23/2018

Benzene	0.111	0.002	mg/kg	0.100		111	70-130			
Toluene	0.108	0.002	"	0.100		108	70-130			
Ethylbenzene	0.107	0.002	"	0.100		107	70-130			
m,p-Xylene	0.210	0.004	"	0.200		105	70-130			
o-Xylene	0.101	0.002	"	0.100		101	70-130			
Naphthalene	0.103	0.008	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

**LCS (B8H2305-BS2)**

Prepared: 08/23/2018 Analyzed: 08/23/2018

Benzene	0.120	0.002	mg/kg	0.100		120	70-130			
Toluene	0.112	0.002	"	0.100		112	70-130			
Ethylbenzene	0.114	0.002	"	0.100		114	70-130			
m,p-Xylene	0.229	0.004	"	0.200		114	70-130			
o-Xylene	0.113	0.002	"	0.100		113	70-130			
Naphthalene	0.101	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

Matrix Spike (B8H2305-MS1)	Source: Y808325-01			Prepared: 08/23/2018 Analyzed: 08/23/2018						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	70-130			
Toluene	0.112	0.002	"	0.100	ND	112	70-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	70-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	70-130			
o-Xylene	0.109	0.002	"	0.100	ND	109	70-130			
Naphthalene	0.096	0.008	"	0.100	0.018	78.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

Matrix Spike (B8H2305-MS2)	Source: Y808331-04			Prepared: 08/23/2018 Analyzed: 08/23/2018						
Benzene	0.105	0.002	mg/kg	0.100	0.0007	105	70-130			
Toluene	0.106	0.002	"	0.100	ND	106	70-130			
Ethylbenzene	0.104	0.002	"	0.100	0.004	99.4	70-130			
m,p-Xylene	0.210	0.004	"	0.200	0.006	102	70-130			
o-Xylene	0.105	0.002	"	0.100	0.003	102	70-130			
Naphthalene	0.096	0.008	"	0.100	0.027	68.7	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

Matrix Spike Dup (B8H2305-MSD1)	Source: Y808325-01			Prepared: 08/23/2018 Analyzed: 08/23/2018						
Benzene	0.120	0.002	mg/kg	0.100	ND	120	70-130	7.85	20	
Toluene	0.120	0.002	"	0.100	ND	120	70-130	6.63	20	
Ethylbenzene	0.120	0.002	"	0.100	ND	120	70-130	9.13	20	
m,p-Xylene	0.239	0.004	"	0.200	ND	119	70-130	8.13	20	
o-Xylene	0.120	0.002	"	0.100	ND	120	70-130	9.58	20	
Naphthalene	0.115	0.008	"	0.100	0.018	97.3	70-130	18.1	20	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2305 - EPA 5030 (soil)

Matrix Spike Dup (B8H2305-MSD2)	Source: Y808331-04			Prepared: 08/23/2018 Analyzed: 08/23/2018						
Benzene	0.102	0.002	mg/kg	0.100	0.0007	101	70-130	3.50	20	
Toluene	0.097	0.002	"	0.100	ND	96.9	70-130	8.76	20	
Ethylbenzene	0.094	0.002	"	0.100	0.004	89.9	70-130	9.58	20	
m,p-Xylene	0.188	0.004	"	0.200	0.006	91.2	70-130	11.0	20	
o-Xylene	0.096	0.002	"	0.100	0.003	92.8	70-130	9.53	20	
Naphthalene	0.090	0.008	"	0.100	0.027	62.4	70-130	6.84	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2306 - EPA 3550B**

<b>Blank (B8H2306-BLK1)</b>				Prepared: 08/23/2018 Analyzed: 08/23/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		91.5	59-131			
<b>Blank (B8H2306-BLK2)</b>				Prepared: 08/23/2018 Analyzed: 08/24/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	47		"	50.0		94.0	59-131			
<b>LCS (B8H2306-BS1)</b>				Prepared: 08/23/2018 Analyzed: 08/23/2018						
Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	64-121			
Surrogate: o-Terphenyl	48		"	50.0		96.2	59-131			
<b>LCS (B8H2306-BS2)</b>				Prepared: 08/23/2018 Analyzed: 08/23/2018						
Diesel (C10-C28)	960	50.0	mg/kg	1000		96.0	64-121			
Surrogate: o-Terphenyl	47		"	50.0		94.3	59-131			
<b>Matrix Spike (B8H2306-MS1)</b>		<b>Source: Y808325-01</b>			Prepared: 08/23/2018 Analyzed: 08/23/2018					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	14.2	99.8	53-125			
Surrogate: o-Terphenyl	48		"	50.0		97.0	59-131			
<b>Matrix Spike (B8H2306-MS2)</b>		<b>Source: Y808331-04</b>			Prepared: 08/23/2018 Analyzed: 08/23/2018					
Diesel (C10-C28)	991	50.0	mg/kg	1000	50.9	94.0	53-125			
Surrogate: o-Terphenyl	44		"	50.0		87.8	59-131			

Origins Laboratory, Inc.



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

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

**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
<b>Batch B8H2306 - EPA 3550B</b>										
<b>Matrix Spike Dup (B8H2306-MSD1)</b>		<b>Source: Y808325-01</b>			Prepared: 08/23/2018 Analyzed: 08/23/2018					
Diesel (C10-C28)	972	50.0	mg/kg	1000	14.2	95.8	53-125	4.05	20	
Surrogate: o-Terphenyl	48		"	50.0		95.6	59-131			
<b>Matrix Spike Dup (B8H2306-MSD2)</b>		<b>Source: Y808331-04</b>			Prepared: 08/23/2018 Analyzed: 08/23/2018					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	50.9	106	53-125	11.2	20	
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

Origins Laboratory, Inc.



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

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

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**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 27, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 24, 2018. This project is associated with Origins project number Y808366-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-GW-04	Y808366-01	Water	August 24, 2018 14:22	08/24/2018 17:16
EXC-SS-30@9'	Y808366-02	Soil	August 24, 2018 9:25	08/24/2018 17:16
EXC-SS-31@9'	Y808366-03	Soil	August 24, 2018 9:27	08/24/2018 17:16
EXC-SS-32@9'	Y808366-04	Soil	August 24, 2018 11:17	08/24/2018 17:16
EXC-SS-36@9'	Y808366-05	Soil	August 24, 2018 13:50	08/24/2018 17:16
EXC-SS-38@9'	Y808366-06	Soil	August 24, 2018 16:06	08/24/2018 17:16

Origins Laboratory, Inc.



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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7808366

Client: Eagle  
 Client Project ID: Rider #1

Checklist Completed by: JG  
 Date/time completed: 8/24/2018

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.9° c / \_\_\_\_\_ °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c

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> ?	/			
Is there ice present (document if blue ice is used)	/			
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)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		/		
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.

[Signature] Reviewed by (Project Manager) 8/24/18 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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 Denver CO 80211

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

**EXC-GW-04**

**8/24/2018 2:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B8H2407	KDK	08/24/2018	08/24/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>85.4</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>1400</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	95.1 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	"	

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 Denver CO 80211

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

**EXC-SS-30@9'**  
**8/24/2018 9:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2408	KDK	08/24/2018	08/24/2018	U
Surrogate: <i>o</i> -Terphenyl	84.4 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	10.2	5.00	mg/kg	25	B8H2401	JTD	08/24/2018	08/24/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Napthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	"	

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 Denver CO 80211

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

**EXC-SS-31@9'**  
**8/24/2018 9:27:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-03 (Soil)**

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

Diesel (C10-C28)	303	50.0	mg/kg	1	B8H2408	KDK	08/24/2018	08/24/2018	
Surrogate: <i>o</i> -Terphenyl	70.0 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	197	5.00	mg/kg	25	B8H2401	JTD	08/24/2018	08/24/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.104	0.050	"	"	"	JTD	"	"	
Xylenes, total	2.24	0.050	"	"	"	JTD	"	"	
Napthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

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 Denver CO 80211

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

**EXC-SS-32@9'**  
**8/24/2018 11:17:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-04 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2408	KDK	08/24/2018	08/24/2018	U
Surrogate: <i>o</i> -Terphenyl	80.0 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.452</b>	0.200	mg/kg	1	B8H2401	KDK	08/24/2018	08/26/2018	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.002</b>	0.002	"	"	"	KDK	"	"	
Xylenes, total	<b>0.034</b>	0.002	"	"	"	KDK	"	"	
Napthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

**EXC-SS-36@9'**  
**8/24/2018 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-05 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2408	KDK	08/24/2018	08/24/2018	U
Surrogate: <i>o</i> -Terphenyl	92.7 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H2401	JTD	08/24/2018	08/24/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Napthalene	ND	0.008	"	"	"	JTD	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

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 Project Number: [none]  
 Project: Rider #1

**EXC-SS-38@9'**  
**8/24/2018 4:06:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808366-06 (Soil)**

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

Diesel (C10-C28)	240	50.0	mg/kg	1	B8H2408	KDK	08/24/2018	08/24/2018	
Surrogate: <i>o</i> -Terphenyl	79.2 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	112	5.00	mg/kg	25	B8H2401	JTD	08/24/2018	08/24/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)

**Blank (B8H2401-BLK1)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	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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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)**

**Blank (B8H2401-BLK2)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)**

**LCS (B8H2401-BS1)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	0.097	0.002	mg/kg	0.100		96.6	70-130			
Toluene	0.100	0.002	"	0.100		100	70-130			
Ethylbenzene	0.095	0.002	"	0.100		94.8	70-130			
m,p-Xylene	0.192	0.004	"	0.200		95.8	70-130			
o-Xylene	0.095	0.002	"	0.100		95.1	70-130			
Naphthalene	0.085	0.008	"	0.100		84.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Eagle Environmental Consulting, Inc.  
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Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)**

**LCS (B8H2401-BS2)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	0.111	0.002	mg/kg	0.100		111	70-130			
Toluene	0.113	0.002	"	0.100		113	70-130			
Ethylbenzene	0.109	0.002	"	0.100		109	70-130			
m,p-Xylene	0.218	0.004	"	0.200		109	70-130			
o-Xylene	0.109	0.002	"	0.100		109	70-130			
Naphthalene	0.099	0.008	"	0.100		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)

Matrix Spike (B8H2401-MS1)	Source: Y808337-02			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130			
Toluene	0.103	0.002	"	0.100	ND	103	70-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	101	70-130			
o-Xylene	0.103	0.002	"	0.100	ND	103	70-130			
Naphthalene	0.090	0.008	"	0.100	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)

Matrix Spike (B8H2401-MS2)	Source: Y808338-02			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130			
Toluene	0.099	0.002	"	0.100	ND	99.3	70-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	93.9	70-130			
m,p-Xylene	0.188	0.004	"	0.200	ND	93.8	70-130			
o-Xylene	0.095	0.002	"	0.100	ND	94.8	70-130			
Naphthalene	0.092	0.008	"	0.100	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)

Matrix Spike Dup (B8H2401-MSD1)	Source: Y808337-02			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	0.090	0.002	mg/kg	0.100	ND	90.4	70-130	15.6	20	
Toluene	0.086	0.002	"	0.100	ND	86.5	70-130	17.8	20	
Ethylbenzene	0.083	0.002	"	0.100	ND	82.5	70-130	21.4	20	QR-02
m,p-Xylene	0.164	0.004	"	0.200	ND	81.8	70-130	21.3	20	QR-02
o-Xylene	0.084	0.002	"	0.100	ND	83.8	70-130	20.7	20	QR-02
Naphthalene	0.079	0.008	"	0.100	ND	79.4	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2401 - EPA 5030 (soil)

Matrix Spike Dup (B8H2401-MSD2)	Source: Y808338-02			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	0.090	0.002	mg/kg	0.100	ND	90.3	70-130	13.5	20	
Toluene	0.083	0.002	"	0.100	ND	83.1	70-130	17.8	20	
Ethylbenzene	0.073	0.002	"	0.100	ND	73.3	70-130	24.6	20	QR-02
m,p-Xylene	0.145	0.004	"	0.200	ND	72.7	70-130	25.4	20	QR-02
o-Xylene	0.076	0.002	"	0.100	ND	76.2	70-130	21.7	20	QR-02
Naphthalene	0.070	0.008	"	0.100	ND	70.0	70-130	27.0	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2407 - EPA 5030B (Water)

Blank (B8H2407-BLK1)

Prepared: 08/24/2018 Analyzed: 08/24/2018

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	69		"	62.5	110		84-121			
Surrogate: Toluene-d8	58		"	62.5	92.8		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2407 - EPA 5030B (Water)

**LCS (B8H2407-BS1)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	50.4	1.00	ug/L	50.0		101	73.3-129			
Toluene	45.3	1.00	"	50.0		90.6	76.2-123			
Ethylbenzene	46.8	1.00	"	50.0		93.6	73.6-130			
m,p-Xylene	92.3	2.00	"	100		92.3	76.1-126			
o-Xylene	46.1	1.00	"	50.0		92.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	59		"	62.5		93.8	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2407 - EPA 5030B (Water)

Matrix Spike (B8H2407-MS1)	Source: Y808349-01			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	64.3	1.00	ug/L	50.0	ND	129	74-130			
Toluene	57.5	1.00	"	50.0	0.310	114	73-131			
Ethylbenzene	58.8	1.00	"	50.0	ND	118	76-132			
m,p-Xylene	116	2.00	"	100	ND	116	69-139			
o-Xylene	56.6	1.00	"	50.0	ND	113	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	58		"	62.5		92.5	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2407 - EPA 5030B (Water)

Matrix Spike Dup (B8H2407-MSD1)	Source: Y808349-01			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	66.1	1.00	ug/L	50.0	ND	132	74-130	2.70	20	QM-07
Toluene	59.5	1.00	"	50.0	0.310	118	73-131	3.44	20	
Ethylbenzene	62.2	1.00	"	50.0	ND	124	76-132	5.72	20	
m,p-Xylene	122	2.00	"	100	ND	122	69-139	5.50	20	
o-Xylene	59.3	1.00	"	50.0	ND	119	74-131	4.59	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	58		"	62.5		92.9	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2408 - EPA 3550B**

**Blank (B8H2408-BLK1)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

**LCS (B8H2408-BS1)**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	64-121			
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			

**Matrix Spike (B8H2408-MS1)**

**Source: Y808352-01**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Diesel (C10-C28)	1240	50.0	mg/kg	1000	143	110	53-125			
Surrogate: o-Terphenyl	57		"	50.0		114	59-131			

**Matrix Spike Dup (B8H2408-MSD1)**

**Source: Y808352-01**

Prepared: 08/24/2018 Analyzed: 08/24/2018

Diesel (C10-C28)	1250	50.0	mg/kg	1000	143	111	53-125	0.656	20	
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

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

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

---

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.*



August 28, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 27, 2018. This project is associated with Origins project number Y808386-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-SS-40@9'	Y808386-01	Soil	August 27, 2018 11:06	08/27/2018 16:03
EXC-SS-43@9'	Y808386-02	Soil	August 27, 2018 12:35	08/27/2018 16:03
EXC-SS-44@9'	Y808386-03	Soil	August 27, 2018 12:52	08/27/2018 16:03
EXC-SS-45@9'	Y808386-04	Soil	August 27, 2018 13:10	08/27/2018 16:03
EXC-SS-46@9'	Y808386-05	Soil	August 27, 2018 14:19	08/27/2018 16:03

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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y808386

Client: Eagle  
 Client Project ID: Rider #1

Checklist Completed by: JG

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 8/27/2018

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

Cooler Number/Temperature: 1 / 3.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 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)

8/27/18  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

**EXC-SS-40@9'**  
**8/27/2018 11:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808386-01 (Soil)**

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

Diesel (C10-C28)	<b>284</b>	50.0	mg/kg	1	B8H2704	KDK	08/27/2018	08/27/2018	
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Surrogate: <i>o</i> -Terphenyl	92.4 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>1100</b>	50.0	mg/kg	250	B8H2703	KDK	08/27/2018	08/28/2018	
Benzene	ND	0.050	"	25	"	KDK	"	08/27/2018	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	<b>1.56</b>	0.050	"	"	"	KDK	"	"	
Xylenes, total	<b>15.0</b>	0.050	"	"	"	KDK	"	"	
Napthalene	<b>0.565</b>	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	76.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	08/28/2018	

Origins Laboratory, Inc.



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

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

**EXC-SS-43@9'**  
**8/27/2018 12:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808386-02 (Soil)**

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

Diesel (C10-C28)	84.5	50.0	mg/kg	1	B8H2704	KDK	08/27/2018	08/27/2018	
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Surrogate: <i>o</i> -Terphenyl	82.6 %	59-131			"	"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	289	5.00	mg/kg	25	B8H2703	KDK	08/27/2018	08/27/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.224	0.050	"	"	"	KDK	"	"	
Xylenes, total	3.93	0.050	"	"	"	KDK	"	"	
Napthalene	0.272	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	123 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

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

**EXC-SS-44@9'**  
**8/27/2018 12:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808386-03 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2704	KDK	08/27/2018	08/27/2018	U
Surrogate: <i>o</i> -Terphenyl	78.8 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	18.8	5.00	mg/kg	25	B8H2703	KDK	08/27/2018	08/27/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Napthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

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 Denver CO 80211

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

**EXC-SS-45@9'**  
**8/27/2018 1:10:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808386-04 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2704	KDK	08/27/2018	08/27/2018	U
Surrogate: o-Terphenyl	72.1 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.264</b>	0.200	mg/kg	1	B8H2703	KDK	08/27/2018	08/27/2018	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	<b>0.013</b>	0.008	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-46@9'**  
**8/27/2018 2:19:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808386-05 (Soil)**

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

Diesel (C10-C28)	118	50.0	mg/kg	1	B8H2704	KDK	08/27/2018	08/27/2018
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Surrogate: <i>o</i> -Terphenyl	86.7 %	59-131			"	"	"	"
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	152	5.00	mg/kg	25	B8H2703	KDK	08/27/2018	08/27/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.137	0.050	"	"	"	KDK	"	"	
Xylenes, total	2.08	0.050	"	"	"	KDK	"	"	
Napthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130			"	"	"	"
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2703 - EPA 5030 (soil)**

**Blank (B8H2703-BLK1)**

Prepared: 08/27/2018 Analyzed: 08/27/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2703 - EPA 5030 (soil)**

**LCS (B8H2703-BS1)**

Prepared: 08/27/2018 Analyzed: 08/27/2018

Benzene	0.114	0.002	mg/kg	0.100		114	70-130			
Toluene	0.102	0.002	"	0.100		102	70-130			
Ethylbenzene	0.094	0.002	"	0.100		93.7	70-130			
m,p-Xylene	0.188	0.004	"	0.200		93.8	70-130			
o-Xylene	0.096	0.002	"	0.100		96.1	70-130			
Naphthalene	0.096	0.008	"	0.100		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.1	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2703 - EPA 5030 (soil)

Matrix Spike (B8H2703-MS1)	Source: Y808378-02			Prepared: 08/27/2018 Analyzed: 08/27/2018						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130			
Toluene	0.086	0.002	"	0.100	ND	85.8	70-130			
Ethylbenzene	0.079	0.002	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.157	0.004	"	0.200	ND	78.7	70-130			
o-Xylene	0.081	0.002	"	0.100	0.0004	80.4	70-130			
Naphthalene	0.069	0.008	"	0.100	0.016	53.7	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.9	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2703 - EPA 5030 (soil)

Matrix Spike Dup (B8H2703-MSD1)	Source: Y808378-02			Prepared: 08/27/2018 Analyzed: 08/27/2018						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	70-130	9.95	20	
Toluene	0.111	0.002	"	0.100	ND	111	70-130	25.5	20	QR-02
Ethylbenzene	0.108	0.002	"	0.100	ND	108	70-130	30.8	20	QR-02
m,p-Xylene	0.213	0.004	"	0.200	ND	107	70-130	30.1	20	QR-02
o-Xylene	0.108	0.002	"	0.100	0.0004	108	70-130	28.8	20	QR-02
Naphthalene	0.109	0.008	"	0.100	0.016	93.1	70-130	44.2	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.1	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2704 - EPA 3550B**

**Blank (B8H2704-BLK1)**

Prepared: 08/27/2018 Analyzed: 08/27/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	39		"	50.0		77.9	59-131			

**LCS (B8H2704-BS1)**

Prepared: 08/27/2018 Analyzed: 08/27/2018

Diesel (C10-C28)	956	50.0	mg/kg	1000		95.6	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			

**Matrix Spike (B8H2704-MS1)**

**Source: Y808372-01**

Prepared: 08/27/2018 Analyzed: 08/27/2018

Diesel (C10-C28)	1150	50.0	mg/kg	1000	33.2	112	53-125			
Surrogate: o-Terphenyl	48		"	50.0		97.0	59-131			

**Matrix Spike Dup (B8H2704-MSD1)**

**Source: Y808372-01**

Prepared: 08/27/2018 Analyzed: 08/27/2018

Diesel (C10-C28)	1000	50.0	mg/kg	1000	33.2	96.9	53-125	14.0	20	
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

Origins Laboratory, Inc.



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

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

---

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 29, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Rider #1**

**Project Number - [none]**

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. August 28, 2018. This project is associated with Origins project number Y808412-01.

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: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXC-GW-05	Y808412-01	Water	August 28, 2018 14:42	08/28/2018 16:32
EXC-SS-48@9'	Y808412-02	Soil	August 28, 2018 10:25	08/28/2018 16:32
EXC-SS-49@9'	Y808412-03	Soil	August 28, 2018 10:29	08/28/2018 16:32
EXC-SS-50@9'	Y808412-04	Soil	August 28, 2018 10:41	08/28/2018 16:32
EXC-SS-52@9'	Y808412-05	Soil	August 28, 2018 11:48	08/28/2018 16:32

Origins Laboratory, Inc.



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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YAG6412 Client: Eagle  
 Client Project ID: Rider #1  
 Checklist Completed by: JG Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 8/28/2018 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)  
 Cooler Number/Temperature: 1 / 3.3 °c \_\_\_\_\_ / \_\_\_\_\_ °c \_\_\_\_\_ / \_\_\_\_\_ °c  
 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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) 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 with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<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 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.

[Signature] 8/28/18  
 Reviewed by (Project Manager) Date/Time Reviewed

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: Rider #1

**EXC-GW-05**

**8/28/2018 2:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808412-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.00	ug/L	4	B8H2802	KDK	08/28/2018	08/28/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	26.1	4.00	"	"	"	KDK	"	"	
Xylenes, total	428	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-48@9'**  
**8/28/2018 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808412-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2806	KDK	08/28/2018	08/28/2018	U
Surrogate: o-Terphenyl	81.3 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.533</b>	0.200	mg/kg	1	B8H2805	KDK	08/28/2018	08/28/2018	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

**EXC-SS-49@9'**  
**8/28/2018 10:29:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808412-03 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2806	KDK	08/28/2018	08/28/2018	U
<i>Surrogate: o-Terphenyl</i>	72.9 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H2805	KDK	08/28/2018	08/28/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.3 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.3 %	70-130			"	"	"	"	

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

**EXC-SS-50@9'**  
**8/28/2018 10:41:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808412-04 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H2806	KDK	08/28/2018	08/28/2018	U
Surrogate: <i>o</i> -Terphenyl	77.2 %	59-131			"	"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.303</b>	0.200	mg/kg	1	B8H2805	KDK	08/28/2018	08/28/2018	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Napthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

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

**EXC-SS-52@9'**  
**8/28/2018 11:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y808412-05 (Soil)**

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

Diesel (C10-C28)	53.2	50.0	mg/kg	1	B8H2806	KDK	08/28/2018	08/28/2018
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Surrogate: o-Terphenyl	68.9 %	59-131			"	"	"	"
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	33.0	5.00	mg/kg	25	B8H2805	KDK	08/28/2018	08/28/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	0.200	0.050	"	"	"	KDK	"	"	
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2802 - EPA 5030B (Water)**

**Blank (B8H2802-BLK1)**

Prepared: 08/28/2018 Analyzed: 08/29/2018

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	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.6	84-114			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2802 - EPA 5030B (Water)

**LCS (B8H2802-BS1)**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Benzene	48.2	1.00	ug/L	50.0		96.3	73.3-129			
Toluene	47.0	1.00	"	50.0		94.0	76.2-123			
Ethylbenzene	48.9	1.00	"	50.0		97.8	73.6-130			
m,p-Xylene	98.1	2.00	"	100		98.1	76.1-126			
o-Xylene	50.1	1.00	"	50.0		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.0	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Rider #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 B8H2802 - EPA 5030B (Water)

Matrix Spike (B8H2802-MS1)	Source: Y808343-01			Prepared: 08/28/2018 Analyzed: 08/28/2018						
Benzene	52.0	1.00	ug/L	50.0	ND	104	74-130			
Toluene	50.8	1.00	"	50.0	0.170	101	73-131			
Ethylbenzene	53.5	1.00	"	50.0	0.110	107	76-132			
m,p-Xylene	106	2.00	"	100	0.280	106	69-139			
o-Xylene	54.3	1.00	"	50.0	0.150	108	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H2802 - EPA 5030B (Water)

Matrix Spike Dup (B8H2802-MSD1)	Source: Y808343-01			Prepared: 08/28/2018 Analyzed: 08/28/2018						
Benzene	48.1	1.00	ug/L	50.0	ND	96.1	74-130	7.93	20	
Toluene	46.8	1.00	"	50.0	0.170	93.2	73-131	8.16	20	
Ethylbenzene	50.0	1.00	"	50.0	0.110	99.9	76-132	6.61	20	
m,p-Xylene	99.4	2.00	"	100	0.280	99.1	69-139	6.47	20	
o-Xylene	50.9	1.00	"	50.0	0.150	102	74-131	6.39	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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**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 B8H2805 - EPA 5030 (soil)

**Blank (B8H2805-BLK1)**

Prepared: 08/28/2018 Analyzed: 08/28/2018

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.6	70-130			

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**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 B8H2805 - EPA 5030 (soil)**

**LCS (B8H2805-BS1)**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Benzene	0.108	0.002	mg/kg	0.100		108	70-130			
Toluene	0.104	0.002	"	0.100		104	70-130			
Ethylbenzene	0.109	0.002	"	0.100		109	70-130			
m,p-Xylene	0.212	0.004	"	0.200		106	70-130			
o-Xylene	0.105	0.002	"	0.100		105	70-130			
Naphthalene	0.119	0.008	"	0.100		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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**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 B8H2805 - EPA 5030 (soil)

Matrix Spike (B8H2805-MS1)	Source: Y808402-01			Prepared: 08/28/2018 Analyzed: 08/28/2018						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.0	70-130			
Toluene	0.095	0.002	"	0.100	ND	94.5	70-130			
Ethylbenzene	0.099	0.002	"	0.100	ND	98.6	70-130			
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	70-130			
o-Xylene	0.099	0.002	"	0.100	ND	99.2	70-130			
Naphthalene	0.094	0.008	"	0.100	0.0008	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project: Rider #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 B8H2805 - EPA 5030 (soil)

Matrix Spike Dup (B8H2805-MSD1)	Source: Y808402-01			Prepared: 08/28/2018 Analyzed: 08/28/2018						
Benzene	0.071	0.002	mg/kg	0.100	ND	71.0	70-130	30.9	20	QR-03
Toluene	0.065	0.002	"	0.100	ND	64.8	70-130	37.3	20	QM-07, QR-03
Ethylbenzene	0.056	0.002	"	0.100	ND	56.3	70-130	54.5	20	QM-07, QR-03
m,p-Xylene	0.112	0.004	"	0.200	ND	56.0	70-130	54.7	20	QM-07, QR-03
o-Xylene	0.057	0.002	"	0.100	ND	56.7	70-130	54.5	20	QM-07, QR-03
Naphthalene	0.049	0.008	"	0.100	0.0008	48.0	70-130	63.3	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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**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 B8H2806 - EPA 3550B**

**Blank (B8H2806-BLK1)**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	48		"	50.0		96.9	59-131			

**LCS (B8H2806-BS1)**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

**Matrix Spike (B8H2806-MS1)**

**Source: Y808402-01**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	53-125			
Surrogate: o-Terphenyl	50		"	50.0		99.1	59-131			

**Matrix Spike Dup (B8H2806-MSD1)**

**Source: Y808402-01**

Prepared: 08/28/2018 Analyzed: 08/28/2018

Diesel (C10-C28)	982	50.0	mg/kg	1000	ND	98.2	53-125	4.81	20	
Surrogate: o-Terphenyl	48		"	50.0		95.0	59-131			

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### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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