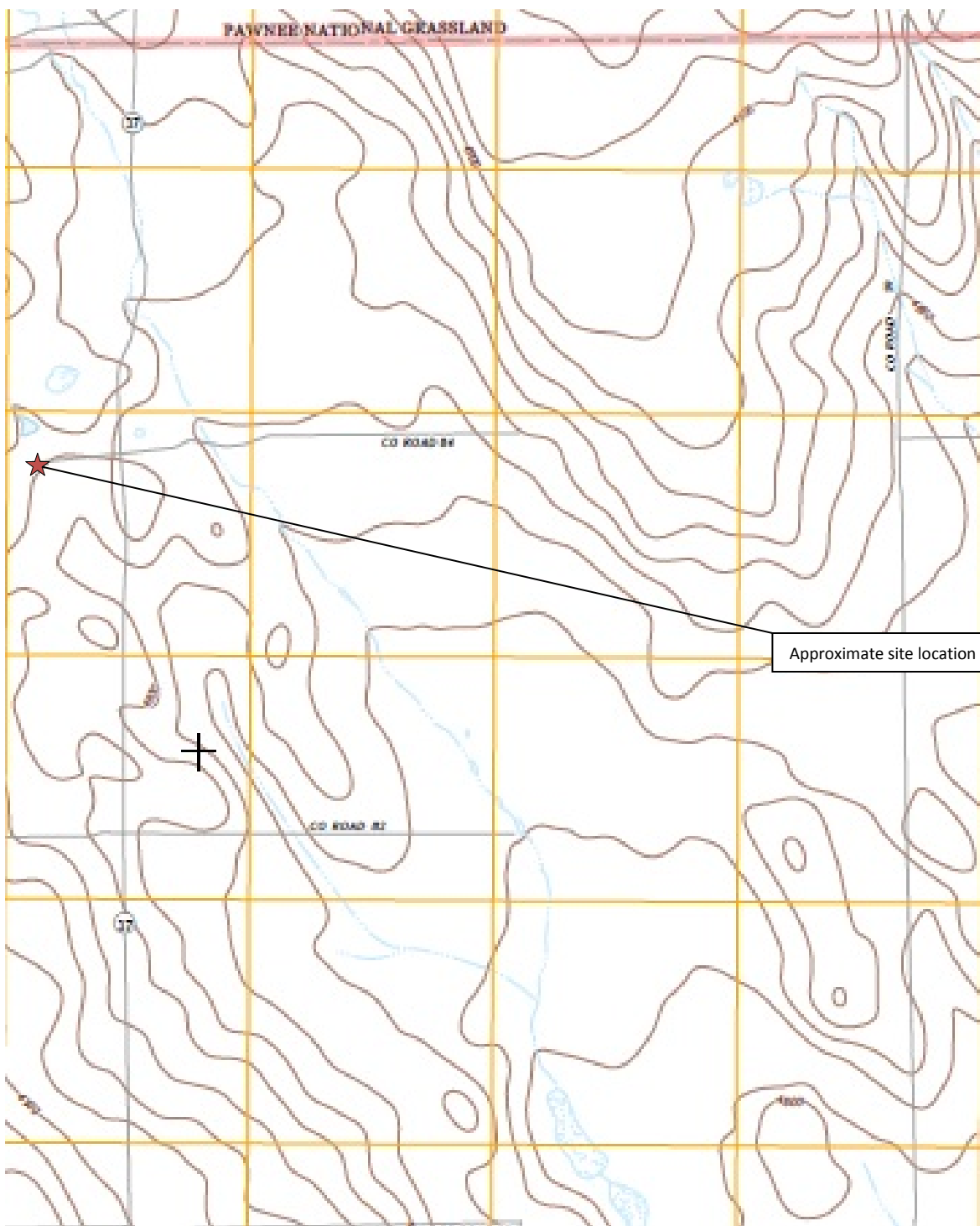


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Sample Analytical Map**



**Topographic Site Location Map**

Dillard USX AB #05-99 HZ  
 Water Vault Removal  
 40.594046/-104.563209  
 SE¼ SE¼ SEC.5 T7N R64W 6PM  
 Weld County, Colorado  
 Location ID: 415930



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

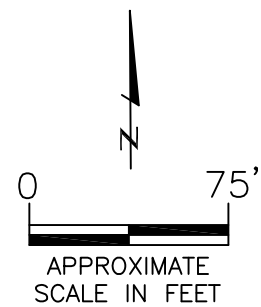
Source: USGS 7.5 Minute Topographic  
 Map: Galeton, CO Quadrangle 2013

**Figure 1**



# LEGEND

- DILLARD USX AB #05-99HZ TANK BATTERY
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL/EXCAVATION



AERIAL SITE LOCATION MAP  
 DILLARD USX AB #05-99HZ  
 WATER VAULT REMOVAL  
 40.594046 / -104.563209  
 SE1/4 SE1/4 SEC.5 T7N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID: 415930

DATE:  
08/14/15

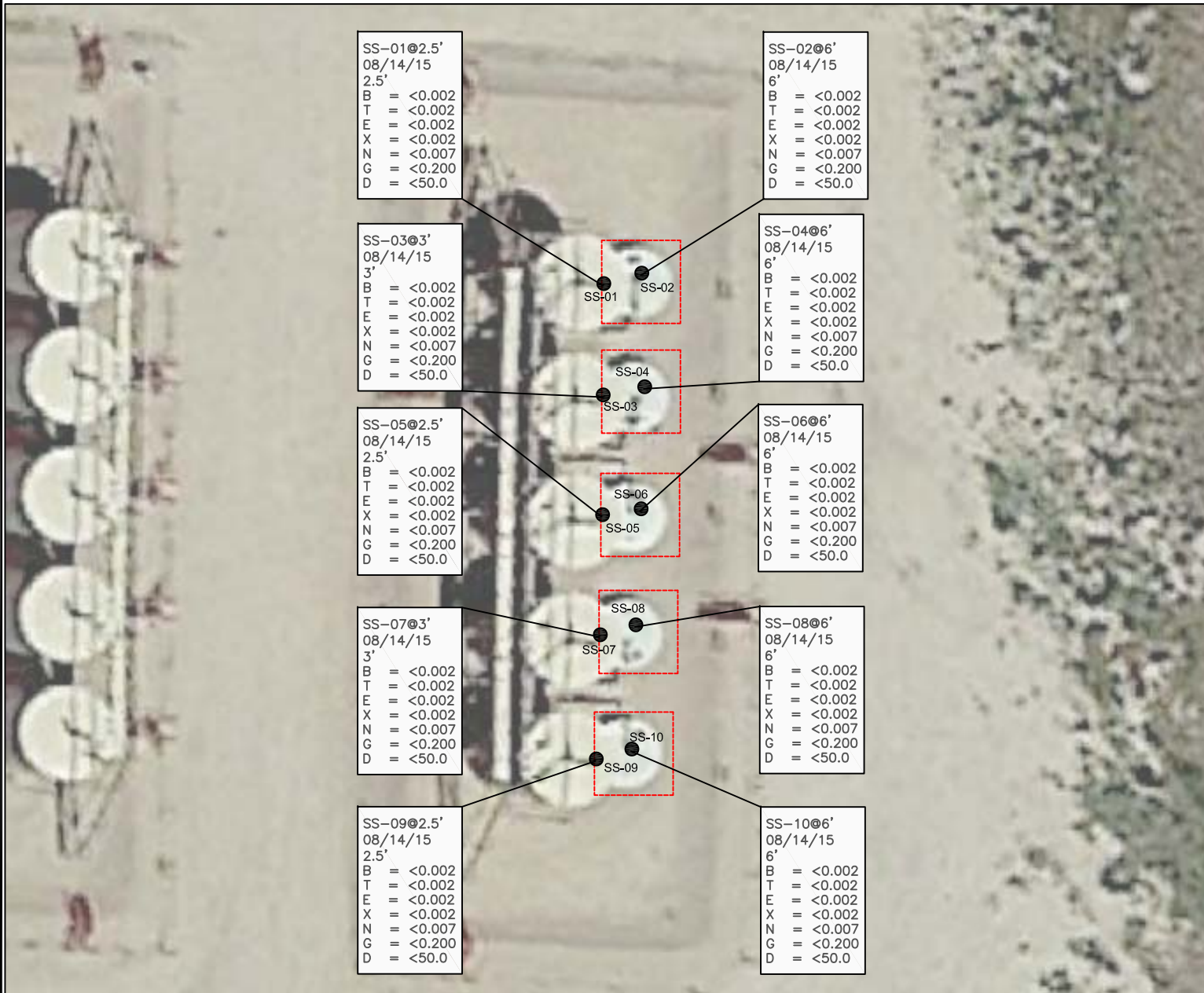
FIG. NO.  
2

DRAWN BY:  
AMN



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





#### LEGEND

APPROXIMATE LOCATIONS OF WATER VAULT REMOVALS

● SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES  
SUBMITTED FOR LABORATORY ANALYSIS

#### PARAMETERS

##### SOIL SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)

T = TOLUENE (mg/kg)

E = ETHYLBENZENE (mg/kg)

X = TOTAL XYLENES (mg/kg)

N = NAPHTHALENE (mg/kg)

G = TPH-GRO (mg/kg)

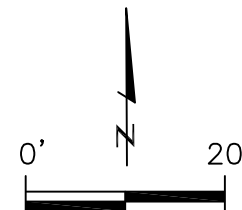
D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE  
RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL  
RANGE ORGANICS

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



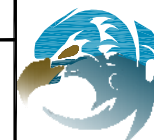
APPROXIMATE  
SCALE IN FEET

SOIL SAMPLE ANALYTICAL MAP  
DILLARD USX AB #05-99HZ  
WATER VAULT REMOVAL  
40.594046/-104.563209  
SE1/4 SE1/4 SEC.5 T7N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID: 415930

DATE: 08/17/15

FIG.  
NO.  
3

DRAWN BY:  
amn



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

## **TABLE**

**Table 1:     Soil Analytical Results Summary**

**TABLE 1**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**DILLARD USX AB #05-99HZ**  
**WATER VAULT REMOVAL**  
**40.594046 / -104.563209**  
**SE¼ SE¼ SEC.5 T7N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID: 415930**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 910-1 Regulatory Limits (mg/kg)</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>500</b>		<b>&lt;4</b>	<b>6 to 9</b>	<b>&lt;12<sup>^</sup>5</b>
SS-01 @ 2.5' (40.594129 / -104.563214)	08/14/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0694	8.69	0.076
SS-02 @ 6' (40.594131 / -104.563203)	08/14/15	6	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-03 @ 3' (40.594088 / -104.563222)	08/14/15	3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0649	8.63	0.0857
SS-04 @ 6' (40.594092 / -104.563203)	08/14/15	6	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-05 @ 2.5' (40.594046 / -104.563222)	08/14/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0663	8.96	0.123
SS-06 @ 6' (40.594050 / -104.563206)	08/14/15	6	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-07 @ 3' (40.594007 / -104.563227)	08/14/15	3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0675	8.79	0.087
SS-08 @ 6' (40.594008 / -104.563208)	08/14/15	6	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-09 @ 2.5' (40.593966 / -104.563227)	08/14/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0581	8.72	0.084
SS-10 @ 6' (40.593966 / -104.563208)	08/14/15	6	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

NA = Not Analyzed

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

SAR = Sodium Adsorption Ratio

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.



## **ATTACHMENT A**

### **Laboratory Analytical Report**



December 14, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Dillard USX AB 5-99 HZ

Project Number - [none]

Attached are your analytical results for Noble - Dillard USX AB 5-99 HZ received by Origins Laboratory, Inc. August 14, 2015. This project is associated with Origins project number X508172-01.

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: Noble - Dillard USX AB 5-99 HZ

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 2.5'	X508172-01	Soil	August 14, 2015 11:55	08/14/2015 14:25
SS-02 @ 6'	X508172-02	Soil	August 14, 2015 11:57	08/14/2015 14:25
SS-03 @ 3'	X508172-03	Soil	August 14, 2015 12:04	08/14/2015 14:25
SS-04 @ 6'	X508172-04	Soil	August 14, 2015 12:06	08/14/2015 14:25
SS-05 @ 2.5'	X508172-05	Soil	August 14, 2015 12:10	08/14/2015 14:25
SS-06 @ 6'	X508172-06	Soil	August 14, 2015 12:12	08/14/2015 14:25
SS-07 @ 3'	X508172-07	Soil	August 14, 2015 12:16	08/14/2015 14:25
SS-08 @ 6'	X508172-08	Soil	August 14, 2015 12:18	08/14/2015 14:25
SS-09 @ 2.5'	X508172-09	Soil	August 14, 2015 12:23	08/14/2015 14:25
SS-10 @ 6'	X508172-10	Soil	August 14, 2015 12:25	08/14/2015 14:25

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: Noble - Dillard USX AB 5-99 HZ

---

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.*

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

# ORIGINS

LABORATORY, INC

X508172

www.originslaboratory.com

page 1 of 1

Client: Elite Env. Consulting, Inc.

Project Manager: Martin Eckert III

Address: 4141 Ina Street

Project Name: Dillard USX AB 5-99 HMI/O

Denver, CO, 80211

Project Number: -

Telephone Number: (303) 433-0479

Samples Collected By: A Newbury

Email Address: alice3@elite-env.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #			
SS-01 @ 25'	8/14/15	1155	2	X					X		X	EC, SAR 8/15/15 APR 15/15 DLO G, BTEX Other	1
SS-02 @ 6'		1157									X		2
SS-03 @ 3'		1204									X		3
SS-04 @ 6'		1206									X		4
SS-05 @ 25'		1210									X		5
SS-06 @ 6'		1212									X		6
SS-07 @ 3'		1216									X		7
SS-08 @ 6'		1218									X		8
SS-09 @ 25'		1223									X		9
SS-10 @ 6'		1225									X		10
Relinquished By: <u>Ad Ngy</u>	Date: <u>8/14/15</u>	Time: <u>1425</u>		Received By: <u>JPP/Amk</u>				Date: <u>8/14/15</u>	Time: <u>1425</u>	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:				

Bill to Paul

Temp Received: 3.0

Date Results Needed: 8/14/15

8/14/15

Origins Laboratory, Inc.

Jeff Pellgrini

*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: Noble - Dillard USX AB 5-99 HZ

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: XS08772

Client: Eagle

Client Project ID: Dillard USX AB 599 HND

Checklist Completed by: Jef S. Mathis

Shipped Via: HND

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

Date/time completed: 8/14/15

Airbill #: NA

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

Cooler Number/Temperature: 1 13.0 °C 1 °C 1 °C (Describe) 1 °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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/14/15

Origins Laboratory, Inc.

Jef S. Mathis

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: Noble - Dillard USX AB 5-99 HZ

SS-01 @ 2.5'

8/14/2015 11:55:00AM

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

Origins Laboratory, Inc.  
X508172-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	90.0 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	91.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

## Metals by SW846 3050B/6010C

Calcium	10700	23.7	mg/kg	1	1501004	08/17/2015	08/17/2015
Magnesium	1230	28.4	"	"	"	"	"
Sodium	31.2	23.7	"	"	"	"	"

## pH in Soil by EPA 9045D

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: Noble - Dillard USX AB 5-99 HZ

SS-01 @ 2.5'

8/14/2015 11:55:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

Origins Laboratory, Inc.

X508172-01 (Soil)

## pH in Soil by EPA 9045D

pH	8.69	pH Units	1	5H14009	08/14/2015	08/14/2015
----	------	----------	---	---------	------------	------------

## Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.0764	none	1	1501237		08/17/2015
-------------------------	--------	------	---	---------	--	------------

## Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0694	mmhos/cm	1	5H14010	08/14/2015	08/14/2015
---------------------------	--------	----------	---	---------	------------	------------

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: Noble - Dillard USX AB 5-99 HZ

SS-02 @ 6'

8/14/2015 11:57:00AM

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

Origins Laboratory, Inc.  
X508172-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	76.5 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	91.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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: Noble - Dillard USX AB 5-99 HZ

SS-03 @ 3'

8/14/2015 12:04:00PM

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

Origins Laboratory, Inc.  
X508172-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	82.5 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	90.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

## Metals by SW846 3050B/6010C

Calcium	8510	23.0	mg/kg	1	1501004	08/17/2015	08/17/2015
Magnesium	1670	27.6	"	"	"	"	"
Sodium	33.0	23.0	"	"	"	"	"

## pH in Soil by EPA 9045D

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: Noble - Dillard USX AB 5-99 HZ

SS-03 @ 3'

8/14/2015 12:04:00PM

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

**Origins Laboratory, Inc.**  
**X508172-03 (Soil)**

**pH in Soil by EPA 9045D**

pH	8.63	pH Units	1	5H14009	08/14/2015	08/14/2015
----	------	----------	---	---------	------------	------------

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.0857	none	1	1501237		08/17/2015
-------------------------	--------	------	---	---------	--	------------

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0649	mmhos/cm	1	5H14010	08/14/2015	08/14/2015
---------------------------	--------	----------	---	---------	------------	------------

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: Noble - Dillard USX AB 5-99 HZ

SS-04 @ 6'

8/14/2015 12:06:00PM

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

Origins Laboratory, Inc.  
X508172-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	67.6 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
-----------------------------	----	-------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.007	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
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Surrogate: Toluene-d8	89.7 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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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: Noble - Dillard USX AB 5-99 HZ

SS-05 @ 2.5'

8/14/2015 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X508172-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
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Surrogate: o-Terphenyl	62.4 %	59-131			"	"	"
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## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	90.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

## Metals by SW846 3050B/6010C

Calcium	5110	21.7	mg/kg	1	1501004	08/17/2015	08/17/2015
Magnesium	1340	26.0	"	"	"	"	"
Sodium	38.1	21.7	"	"	"	"	"

## pH in Soil by EPA 9045D

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: Noble - Dillard USX AB 5-99 HZ

SS-05 @ 2.5'

8/14/2015 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508172-05 (Soil)**

**pH in Soil by EPA 9045D**

pH	8.96	pH Units	1	5H14009	08/14/2015	08/14/2015
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**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.123	none	1	1501237		08/17/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0663	mmhos/cm	1	5H14010	08/14/2015	08/14/2015
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Origins Laboratory, Inc.



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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

SS-06 @ 6'

8/14/2015 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X508172-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
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Surrogate: o-Terphenyl	78.4 %	59-131			"	"	"
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## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.007	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
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Surrogate: Toluene-d8	90.0 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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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: Noble - Dillard USX AB 5-99 HZ

SS-07 @ 3'

8/14/2015 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X508172-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
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Surrogate: o-Terphenyl	80.1 %	59-131			"	"	"
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## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	90.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"

## Metals by SW846 3050B/6010C

Calcium	13600	24.8	mg/kg	1	1501004	08/17/2015	08/17/2015
Magnesium	1980	29.8	"	"	"	"	"
Sodium	41.1	24.8	"	"	"	"	"

## pH in Soil by EPA 9045D

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: Noble - Dillard USX AB 5-99 HZ

SS-07 @ 3'

8/14/2015 12:16:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X508172-07 (Soil)

## pH in Soil by EPA 9045D

pH	8.79	pH Units	1	5H14009	08/14/2015	08/14/2015
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## Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.0872	none	1	1501237		08/17/2015
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0675	mmhos/cm	1	5H14010	08/14/2015	08/14/2015
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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Dillard USX AB 5-99 HZ

**SS-08 @ 6'****8/14/2015 12:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.****X508172-08 (Soil)****Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
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Surrogate: o-Terphenyl	77.3 %	59-131			"	"	"
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Naphthalene	ND	0.007	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
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Surrogate: Toluene-d8	90.5 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"
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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

SS-09 @ 2.5'

8/14/2015 12:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X508172-09 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	63.2 %	59-131			"	"	"
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## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	88.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"

## Metals by SW846 3050B/6010C

Calcium	10300	23.1	mg/kg	1	1501004	08/17/2015	08/17/2015
Magnesium	1490	27.8	"	"	"	"	"
Sodium	34.5	23.1	"	"	"	"	"

## pH in Soil by EPA 9045D

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: Noble - Dillard USX AB 5-99 HZ

SS-09 @ 2.5'

8/14/2015 12:23:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X508172-09 (Soil)

## pH in Soil by EPA 9045D

pH	8.72	pH Units	1	5H14009	08/14/2015	08/14/2015
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## Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.084	none	1	1501237		08/17/2015
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0581	mmhos/cm	1	5H14010	08/14/2015	08/14/2015
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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Dillard USX AB 5-99 HZ

**SS-10 @ 6'****8/14/2015 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508172-10 (Soil)****Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	5H14007	08/14/2015	08/14/2015
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Surrogate: o-Terphenyl	59.5 %	59-131			"	"	"
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H14005	08/14/2015	08/14/2015
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Naphthalene	ND	0.007	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
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Surrogate: Toluene-d8	90.6 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"
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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

**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 5H14005 - EPA 5030 (soil)</b>										
<b>Blank (5H14005-BLK1)</b>					Prepared: 08/14/2015 Analyzed: 08/14/2015					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.007	"							
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.3	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.4	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: Noble - Dillard USX AB 5-99 HZ

**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 5H14005 - EPA 5030 (soil)</b>										
<b>LCS (5H14005-BS1)</b>					Prepared: 08/14/2015 Analyzed: 08/14/2015					
Benzene	0.100	0.002	mg/kg	0.100		100	70-130			
Toluene	0.084	0.002	"	0.100		84.2	70-130			
Ethylbenzene	0.083	0.002	"	0.100		83.5	70-130			
m,p-Xylene	0.174	0.004	"	0.200		87.2	70-130			
o-Xylene	0.090	0.002	"	0.100		89.6	70-130			
Naphthalene	0.095	0.007	"	0.100		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.4	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	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: Noble - Dillard USX AB 5-99 HZ

**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 5H14005 - EPA 5030 (soil)</b>										
<b>Matrix Spike (5H14005-MS1)</b>		<b>Source: X508156-01</b>			Prepared: 08/14/2015 Analyzed: 08/14/2015					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130			
Toluene	0.087	0.002	"	0.100	ND	86.8	70-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.178	0.004	"	0.200	ND	89.1	70-130			
o-Xylene	0.092	0.002	"	0.100	ND	92.2	70-130			
Naphthalene	0.098	0.007	"	0.100	ND	98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.2	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

**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 5H14005 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (5H14005-MSD1)</b>		<b>Source: X508156-01</b>			Prepared: 08/14/2015 Analyzed: 08/14/2015					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130	0.640	20	
Toluene	0.087	0.002	"	0.100	ND	86.9	70-130	0.184	20	
Ethylbenzene	0.084	0.002	"	0.100	ND	84.2	70-130	1.23	20	
m,p-Xylene	0.175	0.004	"	0.200	ND	87.6	70-130	1.62	20	
o-Xylene	0.091	0.002	"	0.100	ND	91.1	70-130	1.20	20	
Naphthalene	0.101	0.007	"	0.100	ND	101	70-130	3.15	20	
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		90.2	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

## 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 5H14007 - EPA 3580

#### Blank (5H14007-BLK1)

Prepared: 08/14/2015 Analyzed: 08/14/2015

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			

#### LCS (5H14007-BS1)

Prepared: 08/14/2015 Analyzed: 08/14/2015

Diesel (C10-C28)	883	50.0	mg/kg	1000		88.3	64-121			
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			

#### Matrix Spike (5H14007-MS1)

Source: X508159-01

Prepared: 08/14/2015 Analyzed: 08/14/2015

Diesel (C10-C28)	783	50.0	mg/kg	1000	99.8	68.3	53-125			
Surrogate: o-Terphenyl	37		"	50.0		73.4	59-131			

#### Matrix Spike Dup (5H14007-MSD1)

Source: X508159-01

Prepared: 08/14/2015 Analyzed: 08/14/2015

Diesel (C10-C28)	840	50.0	mg/kg	1000	99.8	74.1	53-125	7.10	20	
Surrogate: o-Terphenyl	38		"	50.0		76.2	59-131			

Origins Laboratory, Inc.



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Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Dillard USX AB 5-99 HZ

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5H14009 - NO PREP</b>										
<b>Duplicate (5H14009-DUP1)</b>		<b>Source: X508172-01</b>			Prepared: 08/14/2015 Analyzed: 08/14/2015					
pH	8.62		pH Units		8.69			0.809	25	
<b>Batch 5H14010 - NO PREP</b>										
<b>Blank (5H14010-BLK1)</b>		Prepared: 08/14/2015 Analyzed: 08/14/2015								
Specific Conductance (EC)	0.00230		mmhos/cm							
<b>Duplicate (5H14010-DUP1)</b>		<b>Source: X508172-01</b>			Prepared: 08/14/2015 Analyzed: 08/14/2015					
Specific Conductance (EC)	0.0739		mmhos/cm		0.0694			6.28	25	

Origins Laboratory, Inc.



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

Martin C Eckert III  
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Project: Noble - Dillard USX AB 5-99 HZ

## Metals by SW846 3050B/6010C - Quality Control

### GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1501004 - SW846 3050B</b>										
<b>BLANK (1203375839-BLK)</b>					Prepared: 08/17/2015 Analyzed: 08/17/2015					
Calcium	7.97	23.8	mg/kg				-			J
Magnesium	ND	28.5	"				-			U
Sodium	10.4	23.8	"				-			J
<b>LCS (1203375840-BKS)</b>					Prepared: 08/17/2015 Analyzed: 08/17/2015					
Sodium	510	24.5	mg/kg	489		104	80-120			
Magnesium	497	29.4	"	489		102	80-120			
Calcium	501	24.5	"	489		102	80-120			
<b>DUP (1203375841 D)</b>					<b>Source: X508172-01</b>		Prepared: 08/17/2015 Analyzed: 08/17/2015			
Magnesium	1280	28.1	mg/kg		1230		0-20	4.19	20	
Sodium	33.1	23.5	"		31.2		0-20	5.87	20	
Calcium	11000	23.5	"		10700		0-20	2.87	20	
<b>MS (1203375842 S)</b>					<b>Source: X508172-01</b>		Prepared: 08/17/2015 Analyzed: 08/17/2015			
Calcium	12300	24.8	mg/kg	495	10700	337	75-125			
Magnesium	2070	29.7	"	495	1230	171	75-125			
Sodium	537	24.8	"	495	31.2	102	75-125			
<b>PS (1203376423 S)</b>					<b>Source: X508172-01</b>		Prepared: 08/17/2015 Analyzed: 08/17/2015			
Magnesium	17.9	0.300	mg/kg	5000		98.1	80-120			

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### Notes and Definitions

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

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