



February 23, 2015

Mr. Jacob Evans
Noble Energy, Inc.
1600 Broadway, Suite 2200
Denver, Colorado 80202

**RE: Field Assessment Report – No Further Action Request
 Dalbey D #14-2
 Separator Release Assessment
 40.229809 / -104.515291
 NW¼ NE¼ SEC.14 T3N R64W 6PM
 Weld County, Colorado
 API # 05-123-15702**

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Field Assessment Report – No Further Action Request for the above referenced site.

1.0 SITE BACKGROUND

EAGLE was requested by Noble Energy, Inc. (Noble), to perform assessment activities at the site in response to potential soil and groundwater impacts associated with a separator release at the Dalbey D #14-2 tank battery. Based on conversations with Noble, a small release occurred at the separator, within secondary containment.

The following narrative details assessment activities that were completed at the site.

2.0 SITE DESCRIPTION

The Dalbey D #14-2 tank battery is located within the northwest quarter of the northeast quarter of Section 14, Township 3 north, Range 64 west of the 6th Prime Meridian. A topographic site location map is presented as Figure 1. An aerial site location map is presented in Figure 2.

3.0 SOIL ASSESSMENT ACTIVITIES

On November 21, 2014, EAGLE performed assessment activities to determine potential soil and groundwater impacts associated with the accidental release at the separator on the Dalbey D #14-2 site.

Upon arrival, EAGLE observed the separator had been moved and an area of approximately 25 feet east to west and 5 to 13 feet north to south, had been scraped to a depth ranging from 1 foot to 2 feet below ground surface (bgs). EAGLE did not observe petroleum hydrocarbon staining within the scraped area. Approximately ten (10) cubic yards of soil had been removed from the scraped area and was transported for disposal at an appropriately permitted facility.

EAGLE collected confirmation soil samples SS-01@1', SS-02 @1', SS-03@1', SS-04@1', and SS-05@2'. A portion of each soil sample was placed in a sealable plastic bag for volatile organic compound

(VOC) headspace analysis utilizing a field calibrated photoionization detector (PID). Another portion of the soil sample was placed in a 4-ounce glass jar and packed in an iced cooler for laboratory analysis.

Soil samples SS-01 through SS-05 were submitted to Origins Laboratory, Inc. (Origins), located in Denver, Colorado, under standard chain of custody procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons – gasoline range organics (TPH-GRO), and total petroleum hydrocarbons – diesel range organics (TPH-DRO) following modified Environmental Protection Agency (EPA) Methods 8260c and 8015. The soil samples were received within the required holding time for each laboratory analysis.

Spatial location of each soil sample was recorded using a Trimble GeoXT 6000 series instrument. A site map presenting the scraped surface area, as well as soil sample locations, is included as Figure 3.

4.0 LABORATORY ANALYTICAL RESULTS

Based on soil laboratory analytical results, confirmation soil samples SS-01@1', SS-02 @1', SS-03@1', SS-04@1', and SS-05@2' from the Dalbey D #14-2 site did not contain concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective Colorado Oil and Gas Conservation Commission (COGCC) regulatory limits or laboratory reporting limits.

Soil analytical results are summarized in Table 1 and presented in Figure 3. The laboratory analytical report for the soil samples collected during field assessment activities at the Dalbey D #14-2 site are included in Attachment A.

5.0 CONCLUSIONS

Based on the information presented in this report, EAGLE concludes the following:

- EAGLE completed field assessment activities at the Dalbey D #14-2 site on November 21, 2014, following a separator release within secondary containment.
- Confirmation soil samples (SS-01@1', SS-02 @1', SS-03@1', SS-04@1', and SS-05@2') did not contain concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective COGCC regulatory limits or laboratory reporting limits.

6.0 RECOMMENDATIONS

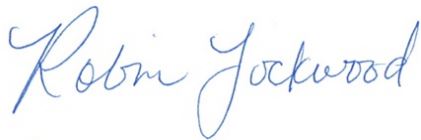
Based on the information presented in this report, EAGLE recommends the following:

- No further assessment or remediation regarding the separator release appears warranted for the Dalbey D #14-2 site at this time.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Robin Lockwood
Project Scientist



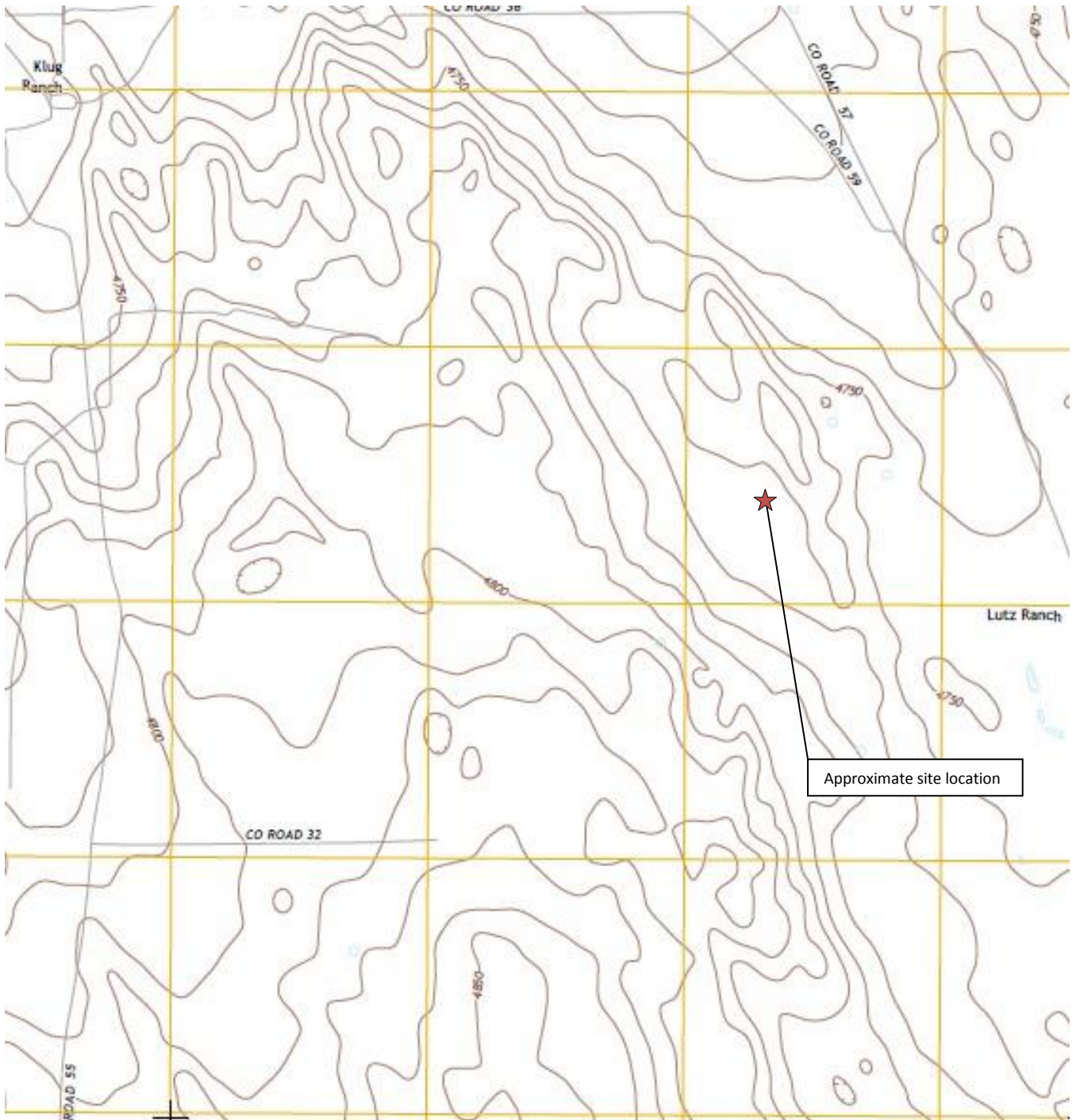
Martin Eckert III
Senior Project Manager

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Analytical Map



Topographic Site Location Map

Dalbey D #14-2
 Separator Release Assessment
 40.228809 / -104.515291
 NW¼ NE¼ SEC.14 T3N R64W 6PM
 Weld County, Colorado
 API # 05-123-15702

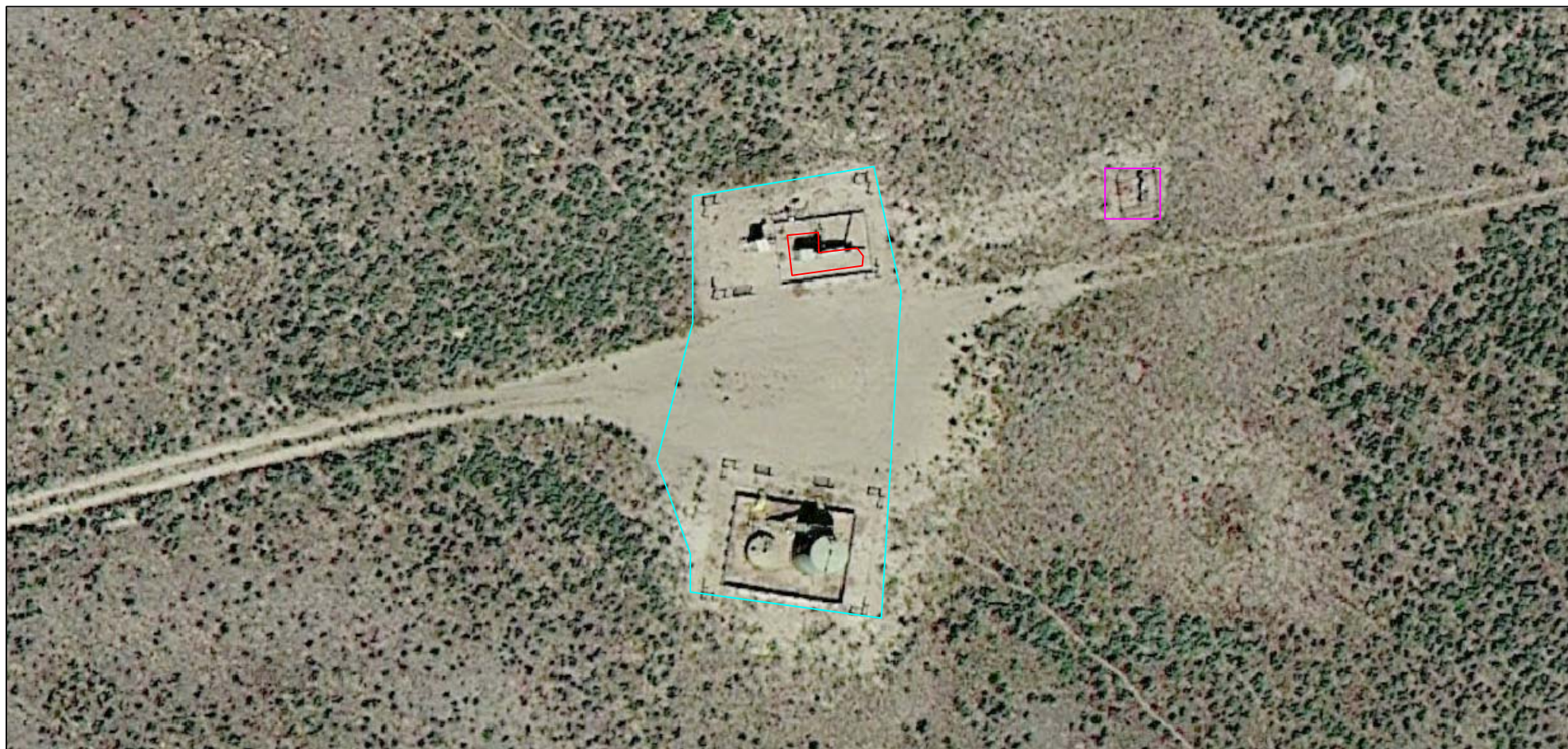


Source: USGS 7.5 Minute Topographic
 Map: Klug Ranch, CO
 Quadrangle 2013

Figure 1

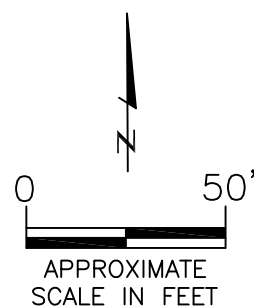


EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.



LEGEND

- DALBEY D #14-2 TANK BATTERY
- DALBEY D #14-2 WELL PAD (40.22988 / -104.51489)
- APPROXIMATE LOCATION OF SEPARATOR RELEASE/EXCAVATION



AERIAL SITE LOCATION MAP

DALBEY D #14-2
 SEPARATOR RELEASE ASSESSMENT
 40.229809 / -104.515291
 NW1/4 NE1/4 SEC.14 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15702

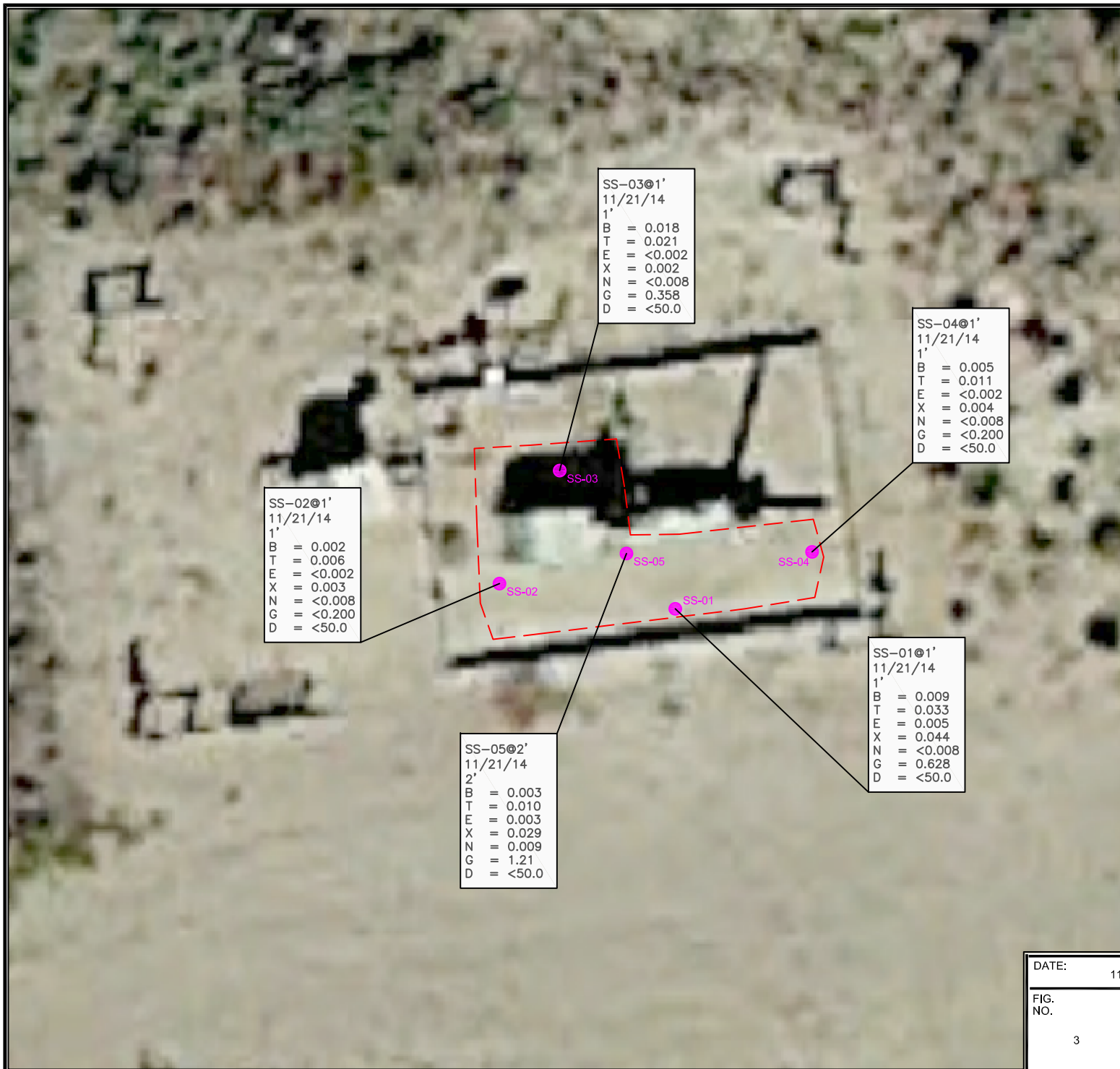
DATE:
 12/31/14

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 EXCAVATION BOUNDARIES
- SS-02 LOCATION OF SOIL SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

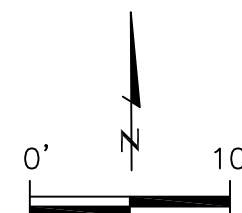
SOIL SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)

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 DETECTION LIMITS



APPROXIMATE
SCALE IN FEET

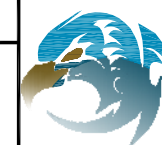
SOIL SAMPLE ANALYTICAL MAP

DALBEY D #14-2
SEPARATOR RELEASE ASSESSMENT
40.229809/-104.515291
NW1/4 NE1/4 SEC.14 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-15702

DATE: 11/24/14

FIG. NO. 3

DRAWN BY: amn



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

TABLES

Table 1: Soil Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
DALBEY D #14-2
SEPERATOR RELEASE ASSESSMENT
40.229809 / -104.515291
NW¼ NE¼ SEC.14 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-15702

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)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SS-01 @ 1' (40.229811061 / -104.515256422)	11/21/14	1.0	0.009	0.033	0.005	0.044	<0.008	0.628	<50.0
SS-02 @ 1' (40.229824435 / -104.515298855)	11/21/14	1.0	0.002	0.006	<0.002	0.003	<0.008	<0.200	<50.0
SS-03 @ 1' (40.229849976 / -104.515280524)	11/21/14	1.0	0.018	0.021	<0.002	0.002	<0.008	0.358	<50.0
SS-04 @ 1' (40.229826251 / -104.51523047)	11/21/14	1.0	0.005	0.011	<0.002	0.004	<0.008	<0.200	<50.0
SS-05 @ 2' (40.229825187 / -104.515262151)	11/21/14	2.0	0.003	0.010	0.003	0.029	0.009	1.21	<50.0
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics Note: Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).									

ATTACHMENT A

Laboratory Analytical Report



November 23, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Dalbey D #14-2

Project Number - [none]

Attached are your analytical results for Noble - Dalbey D #14-2 received by Origins Laboratory, Inc. November 21, 2014. This project is associated with Origins project number X411241-01.

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 - Dalbey D #14-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 1'	X411241-01	Soil	November 21, 2014 13:40	11/21/2014 16:31
SS-02 @ 1'	X411241-02	Soil	November 21, 2014 13:45	11/21/2014 16:31
SS-03 @ 1'	X411241-03	Soil	November 21, 2014 13:47	11/21/2014 16:31
SS-04 @ 1'	X411241-04	Soil	November 21, 2014 13:50	11/21/2014 16:31
SS-05 @ 2'	X411241-05	Soil	November 21, 2014 13:52	11/21/2014 16:31

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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Dalbey D #14-2

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

X411241

Client: Eagle Env Consulting, Inc.
Address: 4101 Inca Street
Telephone Number: (303) 433-CH79
Project Manager/Send Report To: Martin Eckert III
Email Address: mce3@eagle-enviro.com
Project Name/Number: Dalbey D #14-2
Samples Collected By: EP

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysts/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
SS-01 @ 1'	11-21-14	1340	1	X					X		GBTEX-2260 DLO-2015 Naphthalene	1
SS-02 @ 1'		1345	1	X					X			2
SS-03 @ 1'		1347	1	X					X			3
SS-04 @ 1'		1350	1	X					X			4
SS-05 @ 2'		1352	1	X					X			5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>And 11/24</u>	11-21-14	1631	<u>[Signature]</u>	11/21/14	1631	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"/> 3-1
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Comment: Hold samples L. FAHLE - JDN
Data Results Needed: Noble

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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 - Dalbey D #14-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411241

Client: Eagle

Client Project ID: Dalbey D #14-2

Checklist Completed by: Jon Pellegrini

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

Date/time completed: 11-21-14

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.1 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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 11/21/14

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 - Dalbey D #14-2

SS-01 @ 1'

11/21/2014 1:40:00PM

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

Origins Laboratory, Inc.
X411241-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	73.4 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	0.628	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014
Benzene	0.009	0.002	"	"	"	"	"
Toluene	0.033	0.002	"	"	"	"	"
Ethylbenzene	0.005	0.002	"	"	"	"	"
Xylenes, total	0.044	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130			"	"	"
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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: Noble - Dalbey D #14-2

SS-02 @ 1'

11/21/2014 1:45:00PM

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

Origins Laboratory, Inc.
X411241-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	60.8 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014
Benzene	0.002	0.002	"	"	"	"	"
Toluene	0.006	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.003	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130			"	"	"
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	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 - Dalbey D #14-2

SS-03 @ 1'

11/21/2014 1:47:00PM

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

Origins Laboratory, Inc.
X411241-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	63.2 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	0.358	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014
Benzene	0.018	0.002	"	"	"	"	"
Toluene	0.021	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.002	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	85.5 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	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 - Dalbey D #14-2

SS-04 @ 1'

11/21/2014 1:50:00PM

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

Origins Laboratory, Inc.
X411241-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	59.6 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/22/2014
Benzene	0.005	0.002	"	"	"	"	"
Toluene	0.011	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.004	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	89.2 %	70-130			"	"	"
Surrogate: Toluene-d8	95.7 %	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 - Dalbey D #14-2

SS-05 @ 2'

11/21/2014 1:52:00PM

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

Origins Laboratory, Inc.
X411241-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/22/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	92.6 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	1.21	0.200	mg/kg	1	4K21009	11/21/2014	11/22/2014
Benzene	0.003	0.002	"	"	"	"	"
Toluene	0.010	0.002	"	"	"	"	"
Ethylbenzene	0.003	0.002	"	"	"	"	"
Xylenes, total	0.029	0.002	"	"	"	"	"
Naphthalene	0.009	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130			"	"	"
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Dalbey D #14-2

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

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

Batch 4K21009 - EPA 5030 (soil)

Blank (4K21009-BLK1)

Prepared: 11/21/2014 Analyzed: 11/21/2014

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	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	51		ug/kg	62.5		82.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	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 - Dalbey D #14-2

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

Origins Laboratory, Inc.

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

Batch 4K21009 - EPA 5030 (soil)

LCS (4K21009-BS1)

Prepared: 11/21/2014 Analyzed: 11/21/2014

Benzene	0.114	0.002	mg/kg	0.100		114	70-130			
Toluene	0.108	0.002	"	0.100		108	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.202	0.004	"	0.200		101	70-130			
o-Xylene	0.091	0.002	"	0.100		90.6	70-130			
Naphthalene	0.110	0.008	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	51		ug/kg	62.5		82.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Dalbey D #14-2

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

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

Batch 4K21009 - EPA 5030 (soil)

Matrix Spike (4K21009-MS1)		Source: X411233-01			Prepared: 11/21/2014 Analyzed: 11/21/2014					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	70-130			
Toluene	0.105	0.002	"	0.100	ND	105	70-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	70-130			
m,p-Xylene	0.200	0.004	"	0.200	ND	100	70-130			
o-Xylene	0.090	0.002	"	0.100	ND	90.4	70-130			
Naphthalene	0.096	0.008	"	0.100	0.003	93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Dalbey D #14-2

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

Origins Laboratory, Inc.

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

Batch 4K21009 - EPA 5030 (soil)

Matrix Spike Dup (4K21009-MSD1)		Source: X411233-01			Prepared: 11/21/2014 Analyzed: 11/21/2014					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	2.06	20	
Toluene	0.103	0.002	"	0.100	ND	103	70-130	2.29	20	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.4	70-130	1.56	20	
m,p-Xylene	0.193	0.004	"	0.200	ND	96.7	70-130	3.61	20	
o-Xylene	0.087	0.002	"	0.100	ND	87.3	70-130	3.53	20	
Naphthalene	0.088	0.008	"	0.100	0.003	85.5	70-130	8.34	20	
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.8	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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Dalbey D #14-2

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

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

Batch 4K21010 - EPA 3580

Blank (4K21010-BLK1)

Prepared: 11/21/2014 Analyzed: 11/21/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	31		g	50.0		61.2	59-131			
LCS (4K21010-BS1)										
Prepared: 11/21/2014 Analyzed: 11/21/2014										
Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	64-121			
Surrogate: o-Terphenyl	33		g	50.0		65.3	59-131			
Matrix Spike (4K21010-MS1)										
Source: X411233-01										
Prepared: 11/21/2014 Analyzed: 11/21/2014										
Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	53-125			
Surrogate: o-Terphenyl	39		g	50.0		78.6	59-131			
Matrix Spike Dup (4K21010-MSD1)										
Source: X411233-01										
Prepared: 11/21/2014 Analyzed: 11/21/2014										
Diesel (C10-C28)	973	50.0	mg/kg	1000	ND	97.3	53-125	19.1	20	
Surrogate: o-Terphenyl	33		g	50.0		66.5	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: Noble - Dalbey D #14-2

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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.

Ross S Hutto For Noelle Doyle Mathis, President