

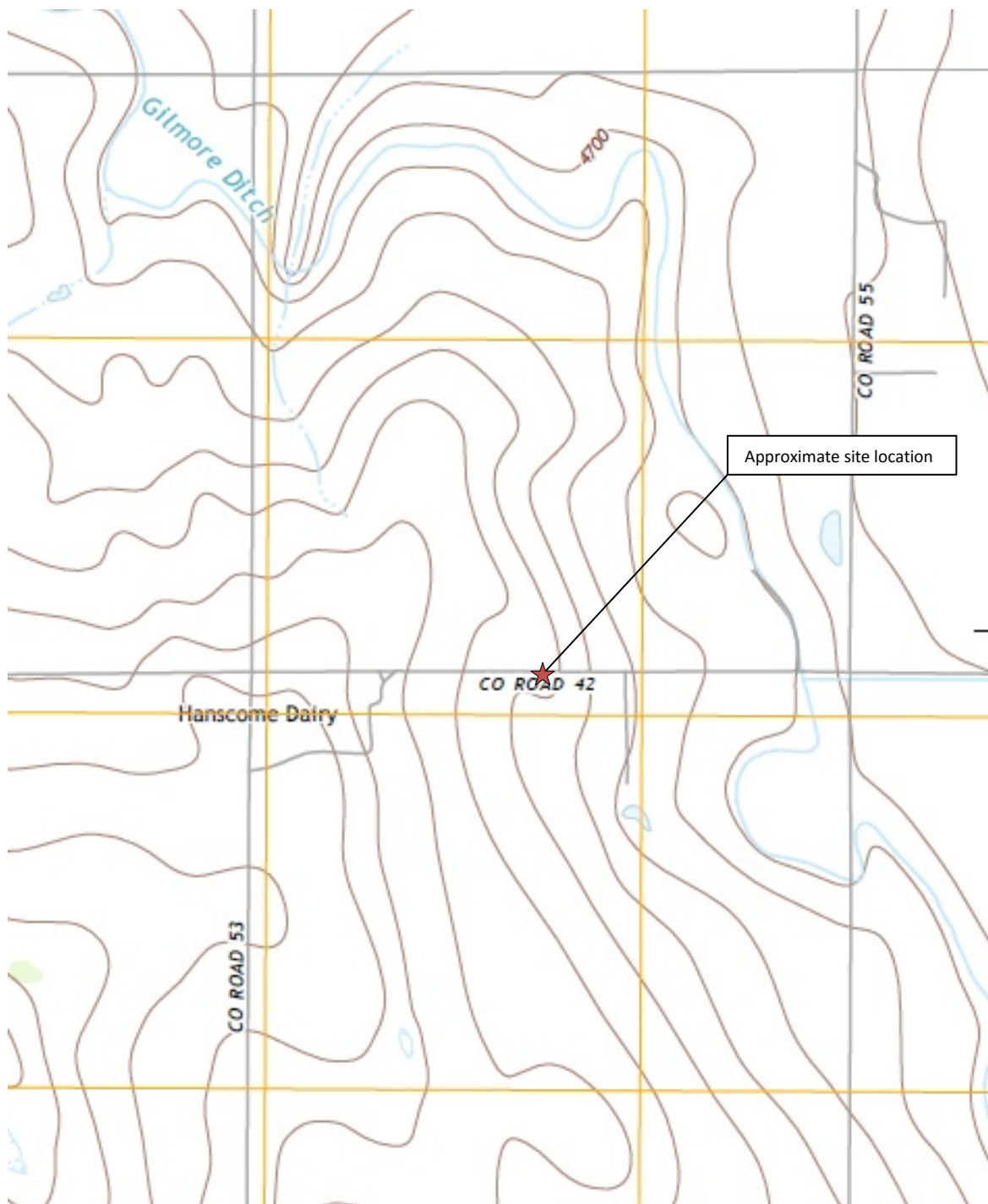


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



Topographic Site Location Map

Hanscome #28-6, 1, 18, 21
 Water Vault Removal
 40.290383 / -104.555947
 SE¼ NW¼ SEC.28 T4N R64W 6PM
 Weld County, Colorado
 API # 05-123-17496



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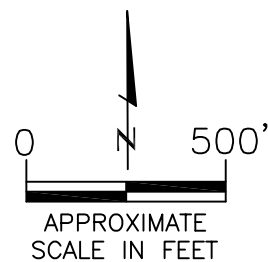
Source: USGS 7.5 Minute Topographic
 Map, Valley View School, CO
 Quadrangle 2013

Figure 1



LEGEND

- HANSCOME #28-6, 1, 18, 21 FACILITIES
- HANSCOME #28-6 WELL HEAD
- HANSCOME C #28-1 WELL HEAD
- HANSCOME C #28-18 WELL HEAD
- HANSCOME C #28-21 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



AERIAL SITE LOCATION MAP
 HANSCOME #28-6, 1, 18, 21
 WATER VAULT REMOVAL
 40.290383 / -104.555947
 SE1/4 NW1/4 SEC.28 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-17496

DATE:
 06/22/16

FIG. NO.
 2

DRAWN BY:
 ar



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



LEGEND

— — — APPROXIMATE EXCAVATION BOUNDARIES

● SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES
FIELD ANALYZED WITH PHOTOIONIZATION
DETECTOR (PID)

● SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES
SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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)

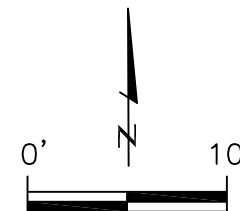
D = TPH-DRO (mg/kg)

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



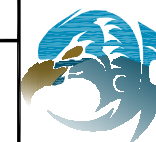
APPROXIMATE
SCALE IN FEET

SOIL ANALYTICAL MAP
HANSCOME #28-6, 1, 18, 21
WATER VAULT REMOVAL
40.290383/-104.555947
SE1/4 NW1/4 SEC.28 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17496

DATE: 04/29/16

FIG.
NO.
3

DRAWN BY:
ar



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



ATTACHMENT A

Laboratory Analytical Report



May 03, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Hanscome #28-6, 1 18, 21 Project Number - [none]

Attached are your analytical results for Noble - Hanscome #28-6, 1 18, 21 received by Origins Laboratory, Inc. April 28, 2016. This project is associated with Origins project number X604312-01.

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 - Hanscome #28-6, 1 18, 21

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-02 @ 2.5'	X604312-01	Soil	April 28, 2016 9:10	04/28/2016 15:10
SS-05 @ 4'	X604312-02	Soil	April 28, 2016 9:25	04/28/2016 15:10

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 - Hanscome #28-6, 1 18, 21

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

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

Client: DRIVE AW CONSTRUCTION

Address: 4101 EXA ST

DANVER, CO 80211

Telephone Number: 303 433 0479




Email Address: mc3@eagle-enviro.com

Project Manager: MARCO EZEQUI

Project Name: ALBUQUERQUE #236, 1, 18, 21

Project Number: ---

Samples Collected By: A ROMANOSKY

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	GC/MS	ICP	2A2		
SS-020 2.5'	4/24/16	910	2	X					X				X	X	X	1
SS-050 4'	4/24/16	925	2	X					X				X	X		2
																3
																4
																5
																6
																7
																8
																9
																10
Relinquished By: 	Date: 4/28/16	Time: 1510		Received By: 				Date: 4/22/16	Time: 1510	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 NowLED

Temp Received: 31

Date Results Needed: 4/23/16

LABORATORY

Origins Laboratory, Inc.

Jose 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: Noble - Hanscome #28-6, 1 18, 21

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604312

Client: Eagle

Client Project ID: Hanscome #28-6, 1, 18, 21

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 4/28/10

Airbill #: NA

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

Cooler Number/Temperature: 3 / 1 °C 1 / 1 °C 1 / 1 °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 ⁽¹⁾ ?				
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 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 4/28/10

Origins Laboratory, Inc.

Jeff Pellegrini

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Hanscome #28-6, 1 18, 21

SS-02 @ 2.5'
4/28/2016 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604312-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Surrogate: o-Terphenyl	73.1 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6D2803	"	04/28/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Naphthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	70-130			"	"	"	

Metals by 6010

Calcium	5.75	me/L	1	'[none]'	04/29/2016	05/03/2016	
Magnesium	2.12	"	"	"	"	"	
Sodium	1.05	"	"	"	"	"	

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 - Hanscome #28-6, 1 18, 21

SS-02 @ 2.5'

4/28/2016 9:10:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X604312-01 (Soil)

pH in Soil by EPA 9045D

pH	8.23	pH Units	1	B6D2804	04/28/2016	04/28/2016
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SAR by 20B Saturated Paste

SAR	0.53		1	'[none]'	04/29/2016	05/03/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0735	mmhos/cm	1	B6D2805	04/28/2016	04/28/2016
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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 - Hanscome #28-6, 1 18, 21

SS-05 @ 4'
4/28/2016 9:25:00AM

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

Origins Laboratory, Inc.
X604312-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Surrogate: o-Terphenyl	83.2 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	6.46	5.00	mg/kg	25	B6D2803	"	04/28/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	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: Noble - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
Blank (B6D2803-BLK1)					Prepared: 04/28/2016 Analyzed: 04/28/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.2	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 - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
Blank (B6D2803-BLK2)					Prepared: 04/28/2016 Analyzed: 04/28/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	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: Noble - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
LCS (B6D2803-BS1)					Prepared: 04/28/2016 Analyzed: 04/28/2016					
Benzene	0.085	0.002	mg/kg	0.100		85.2	70-130			
Toluene	0.084	0.002	"	0.100		84.0	70-130			
Ethylbenzene	0.085	0.002	"	0.100		85.4	70-130			
m,p-Xylene	0.168	0.004	"	0.200		84.2	70-130			
o-Xylene	0.082	0.002	"	0.100		81.6	70-130			
Naphthalene	0.080	0.007	"	0.100		80.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.3	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 - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)

LCS (B6D2803-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Benzene	0.093	0.002	mg/kg	0.100		92.9	70-130			
Toluene	0.093	0.002	"	0.100		92.7	70-130			
Ethylbenzene	0.093	0.002	"	0.100		93.3	70-130			
m,p-Xylene	0.185	0.004	"	0.200		92.5	70-130			
o-Xylene	0.090	0.002	"	0.100		89.7	70-130			
Naphthalene	0.086	0.007	"	0.100		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
Matrix Spike (B6D2803-MS1)		Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Benzene	0.096	0.002	mg/kg	0.100	ND	95.8	70-130			
Toluene	0.094	0.002	"	0.100	ND	94.3	70-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	95.4	70-130			
m,p-Xylene	0.189	0.004	"	0.200	ND	94.3	70-130			
o-Xylene	0.093	0.002	"	0.100	ND	92.6	70-130			
Naphthalene	0.090	0.007	"	0.100	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	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 - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)

Matrix Spike (B6D2803-MS2)		Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.101	0.002	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	70-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	101	70-130			
o-Xylene	0.100	0.002	"	0.100	ND	99.8	70-130			
Naphthalene	0.094	0.007	"	0.100	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
Matrix Spike Dup (B6D2803-MSD1)		Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Benzene	0.090	0.002	mg/kg	0.100	ND	90.4	70-130	5.82	20	
Toluene	0.088	0.002	"	0.100	ND	88.2	70-130	6.64	20	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.6	70-130	7.41	20	
m,p-Xylene	0.177	0.004	"	0.200	ND	88.4	70-130	6.50	20	
o-Xylene	0.087	0.002	"	0.100	ND	87.5	70-130	5.73	20	
Naphthalene	0.086	0.007	"	0.100	ND	85.6	70-130	5.28	20	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Hanscome #28-6, 1 18, 21

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 B6D2803 - EPA 5030 (soil)										
Matrix Spike Dup (B6D2803-MSD2)		Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Benzene	0.081	0.002	mg/kg	0.100	ND	80.9	70-130	23.4	20	QR-02
Toluene	0.080	0.002	"	0.100	ND	80.5	70-130	22.2	20	QR-02
Ethylbenzene	0.081	0.002	"	0.100	ND	81.1	70-130	23.5	20	QR-02
m,p-Xylene	0.162	0.004	"	0.200	ND	80.8	70-130	22.6	20	QR-02
o-Xylene	0.080	0.002	"	0.100	ND	79.7	70-130	22.4	20	QR-02
Naphthalene	0.077	0.007	"	0.100	ND	76.8	70-130	19.6	20	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

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Project: Noble - Hanscome #28-6, 1 18, 21

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 B6D2801 - EPA 3580

Blank (B6D2801-BLK1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

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

42	"	50.0	83.5	59-131
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Blank (B6D2801-BLK2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

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

45	"	50.0	90.1	59-131
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LCS (B6D2801-BS1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	825	50.0	mg/kg	1000	82.5	64-121
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Surrogate: o-Terphenyl

40	"	50.0	80.6	59-131
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LCS (B6D2801-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	977	50.0	mg/kg	1000	97.7	64-121
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Surrogate: o-Terphenyl

51	"	50.0	102	59-131
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Matrix Spike (B6D2801-MS1)

Source: X604292-02

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	712	50.0	mg/kg	1000	ND	71.2	53-125
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Surrogate: o-Terphenyl

37	"	50.0	74.6	59-131
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Matrix Spike (B6D2801-MS2)

Source: X604317-01

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	53-125
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Surrogate: o-Terphenyl

40	"	50.0	79.6	59-131
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Martin C Eckert III
Project Number: [none]
Project: Noble - Hanscome #28-6, 1 18, 21

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
Batch B6D2801 - EPA 3580										
Matrix Spike Dup (B6D2801-MSD1)			Source: X604292-02		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	776	50.0	mg/kg	1000	ND	77.6	53-125	8.63	20	
Surrogate: o-Terphenyl	41		"	50.0		81.2	59-131			
Matrix Spike Dup (B6D2801-MSD2)			Source: X604317-01		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	924	50.0	mg/kg	1000	ND	92.4	53-125	11.0	20	
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			

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Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6D2804 - NO PREP										
Duplicate (B6D2804-DUP1)	Source: X604313-01				Prepared: 04/28/2016 Analyzed: 04/28/2016					
pH	8.39		pH Units		8.36			0.358	25	
Duplicate (B6D2804-DUP2)	Source: X604315-01				Prepared: 04/28/2016 Analyzed: 04/28/2016					
pH	8.15		pH Units		8.06			1.11	25	
Batch B6D2805 - NO PREP										
Blank (B6D2805-BLK1)	Prepared: 04/28/2016 Analyzed: 04/28/2016									
Specific Conductance (EC)	0.00260		mmhos/cm							
Blank (B6D2805-BLK2)	Prepared: 04/28/2016 Analyzed: 04/28/2016									
Specific Conductance (EC)	0.00290		mmhos/cm							
Duplicate (B6D2805-DUP1)	Source: X604313-01				Prepared: 04/28/2016 Analyzed: 04/28/2016					
Specific Conductance (EC)	0.194		mmhos/cm		0.194			0.103	25	
Duplicate (B6D2805-DUP2)	Source: X604315-01				Prepared: 04/28/2016 Analyzed: 04/28/2016					
Specific Conductance (EC)	0.0667		mmhos/cm		0.0664			0.451	25	

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Hanscome #28-6, 1 18, 21

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.

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