

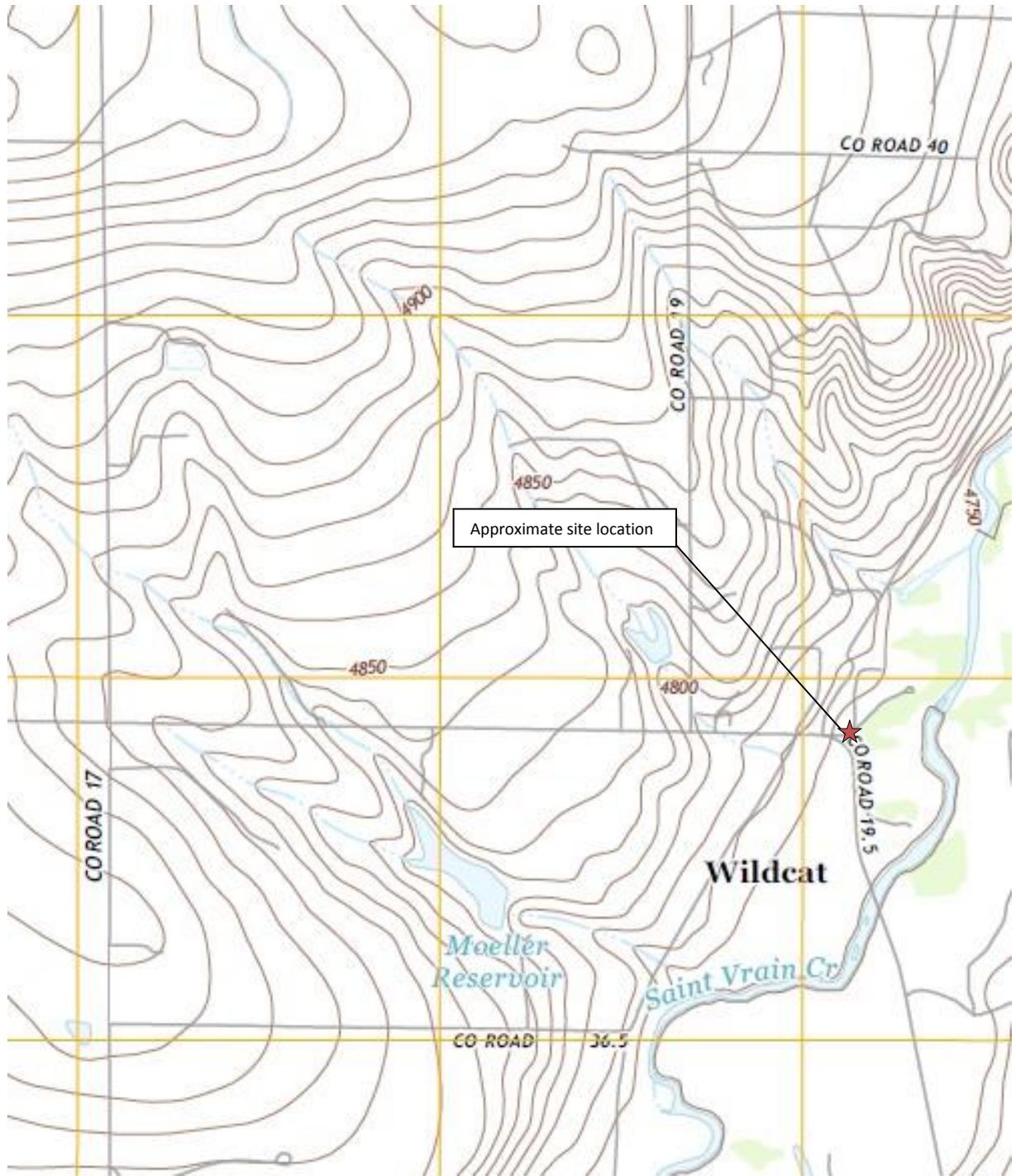


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



Topographic Site Location Map
 Johnson 34-1417
 Water Vault Removal
 40.262215 / -104.880499
 SE¼ SW¼ SEC.34 T4N R67W 6PM
 Weld County, Colorado
 API # 05-123-18173



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

Figure 1

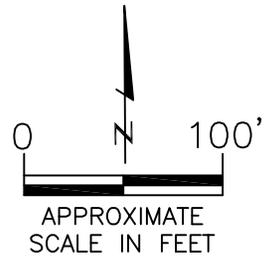


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 CONSULTING, INC.



LEGEND

- JOHNSON 34-1417 FACILITIES
- JOHNSON 34-1417 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



AERIAL SITE LOCATION MAP
 JOHNSON 34-1417
 WATER VAULT REMOVAL
 40.262215 / -104.6880499
 SE1/4 SW1/4 SEC.34 T4N R67W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18173

DATE: 04/19/16

FIG. NO.
2

DRAWN BY:
ar



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ENVIRONMENTAL
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

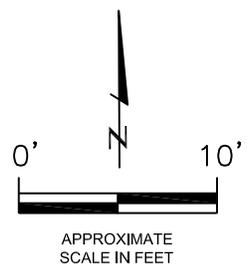
SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)

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



SOIL ANALYTICAL MAP
JOHNSON 34-1417
WATER VAULT REMOVAL
40.262215/-104.880499
SE1/4 SW1/4 SEC.34 T4N R67W 6PM
WELD COUNTY, COLORADO
API # 05-123-18173

DATE:	04/13/16
FIG. NO.	1
DRAWN BY:	ar

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



ATTACHMENT A

Laboratory Analytical Report



April 19, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Johnson 34-1417

Project Number - [none]

Attached are your analytical results for Noble - Johnson 34-1417 received by Origins Laboratory, Inc. April 13, 2016. This project is associated with Origins project number X604144-01.

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 - Johnson 34-1417

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-04 @ 3'	X604144-01	Soil	April 13, 2016 13:35	04/13/2016 16:40
SS-05 @ 6'	X604144-02	Soil	April 13, 2016 13:40	04/13/2016 16:40

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 - Johnson 34-1417

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604144

Client: Eagle

Client Project ID: Johnson 34-1417

Checklist Completed by: Jeff Smith

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

Date/time completed: 4/13/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.8 °C 1 / _____ °C 1 / _____ °C 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 ^{(1)?}	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ^{(1)?}	X			
Was adequate sample volume provided ^{(1)?}	X			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	X			PH
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	X			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	X			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	X			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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.

Jeff Smith
 Reviewed by (Project Manager)

4/13/16
 Date/Time Reviewed

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 - Johnson 34-1417

SS-04 @ 3'
4/13/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604144-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D1303	04/13/2016	04/13/2016	U
<i>Surrogate: o-Terphenyl</i>	90.1 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6D1304	04/13/2016	04/13/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	99.8 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	90.1 %	70-130			"	"	"	

Metals by 6010

Calcium	6.12		me/L	1	'[none]'	04/14/2016	04/18/2016	
Magnesium	3.14		"	"	"	"	"	
Sodium	6.03		"	"	"	"	"	

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 - Johnson 34-1417

SS-04 @ 3'
4/13/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604144-01 (Soil)

pH in Soil by EPA 9045D

pH	7.64		pH Units	1	B6D1307	04/13/2016	04/13/2016	
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SAR by 20B Saturated Paste

SAR	2.80			1	'[none]'	04/14/2016	04/18/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0713		mmhos/cm	1	B6D1308	04/13/2016	04/13/2016	
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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 - Johnson 34-1417

SS-05 @ 6'
 4/13/2016 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X604144-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D1303	04/13/2016	04/13/2016	U
<i>Surrogate: o-Terphenyl</i>	100 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6D1304	04/13/2016	04/13/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.8 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	99.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	88.4 %	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 - Johnson 34-1417

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 B6D1304 - EPA 5030 (soil)

Blank (B6D1304-BLK1)

Prepared: 04/13/2016 Analyzed: 04/13/2016

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		96.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.2	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 - Johnson 34-1417

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 B6D1304 - EPA 5030 (soil)

LCS (B6D1304-BS1)

Prepared: 04/13/2016 Analyzed: 04/13/2016

Benzene	0.113	0.002	mg/kg	0.100		113	70-130			
Toluene	0.113	0.002	"	0.100		113	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.097	0.002	"	0.100		97.1	70-130			
Naphthalene	0.109	0.007	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		87.1	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		87.0	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 - Johnson 34-1417

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 B6D1304 - EPA 5030 (soil)

Matrix Spike (B6D1304-MS1)	Source: X604108-01			Prepared: 04/13/2016 Analyzed: 04/13/2016						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	70-130			
Toluene	0.117	0.002	"	0.100	ND	117	70-130			
Ethylbenzene	0.106	0.002	"	0.100	ND	106	70-130			
m,p-Xylene	0.218	0.004	"	0.200	ND	109	70-130			
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130			
Naphthalene	0.115	0.007	"	0.100	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		90.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Johnson 34-1417

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 B6D1304 - EPA 5030 (soil)

Matrix Spike Dup (B6D1304-MSD1)	Source: X604108-01			Prepared: 04/13/2016 Analyzed: 04/13/2016						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130	9.42	20	
Toluene	0.104	0.002	"	0.100	ND	104	70-130	11.5	20	
Ethylbenzene	0.093	0.002	"	0.100	ND	92.6	70-130	13.2	20	
m,p-Xylene	0.189	0.004	"	0.200	ND	94.7	70-130	13.9	20	
o-Xylene	0.089	0.002	"	0.100	ND	89.2	70-130	13.1	20	
Naphthalene	0.088	0.007	"	0.100	ND	88.2	70-130	26.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Johnson 34-1417

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 B6D1303 - EPA 3580

Blank (B6D1303-BLK1)

Prepared: 04/13/2016 Analyzed: 04/13/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	49		"	50.0		98.1	59-131			

LCS (B6D1303-BS1)

Prepared: 04/13/2016 Analyzed: 04/13/2016

Diesel (C10-C28)	942	50.0	mg/kg	1000		94.2	64-121			
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

Matrix Spike (B6D1303-MS1)

Source: X604108-01

Prepared: 04/13/2016 Analyzed: 04/13/2016

Diesel (C10-C28)	812	50.0	mg/kg	1000	ND	81.2	53-125			
Surrogate: o-Terphenyl	40		"	50.0		80.0	59-131			

Matrix Spike Dup (B6D1303-MSD1)

Source: X604108-01

Prepared: 04/13/2016 Analyzed: 04/13/2016

Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	53-125	15.9	20	
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Johnson 34-1417

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 B6D1307 - NO PREP										
Duplicate (B6D1307-DUP1)		Source: X604144-01			Prepared: 04/13/2016 Analyzed: 04/13/2016					
pH	7.65		pH Units		7.64			0.131	25	
Batch B6D1308 - NO PREP										
Blank (B6D1308-BLK1)		Prepared: 04/13/2016 Analyzed: 04/13/2016								
Specific Conductance (EC)	0.00280		mmhos/cm							
Duplicate (B6D1308-DUP1)		Source: X604144-01			Prepared: 04/13/2016 Analyzed: 04/13/2016					
Specific Conductance (EC)	0.0733		mmhos/cm		0.0713			2.77	25	

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 - Johnson 34-1417

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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