



Eagle Environmental Consulting, LLC

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

October 10, 2024

Project Name - Noble - State #36-614

Project Number - [none]

Attached are your analytical results for Noble - State #36-614 received by Origins Laboratory September 06, 2024. This project is associated with Origins project number E409154-01.

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
303.433.1322
projectmanager@originslab.com



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-FS-01@8'	E409154-01	Soil	September 6, 2024 12:15	09/06/2024 14:47
EX-SS-01@7'	E409154-02	Soil	September 6, 2024 12:25	09/06/2024 14:47

Origins Laboratory



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 3000 W 44th Ave

Project Name: State #36-614

W=Water

Wheat Ridge CO 80033

Project Number:

GW=Groundwater

Telephone Number: 303-973-0979

Collected By: EG

SW=Surface Water

Email Address: agarraffa@eagle-environment.com

Invoice/Billing Info: Noble / Bill to Mom

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis											Comments	
						C	B	T	X	N	A	S	P	A	H	H		A
1	EX-FS-01e81	9/6/24	1215	3	UNP	X	X	X	X	X	X	X	X	X	X	X	X	NO ₃ Needed
2	EX-SS-01e71	↓	1225	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	pH = not tested Pestic Rep
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished By: [Signature] Date: 9/6/24 Time: 11:47


Received By: [Signature] Date: 9/10/24 Time: 14:47

Temp Received- 37 Received On Ice? Yes No

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory


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Project Number: [none]
Project: Noble - State #36-614

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E409154 Client: Eagle
 Checklist Completed by: EHO Client Project ID: State 36-614
 Date/time completed: 9/16/12 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid _____ Water _____ Other: _____
 Cooler Number/Temperature: 137 °C _____ °C _____ °C _____ °C (Describe)
 Thermometer ID: 7005

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"/>			
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"/>		
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) EHO Date/Time Reviewed 9/16/12

Origins Laboratory



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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

EX-FS-01@8'

9/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409154-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410629	09/06/2024	09/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410631	09/06/2024	09/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Origins Laboratory



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 Project: Noble - State #36-614

EX-FS-01@8'

9/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409154-01 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B410628	09/06/2024	09/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

Origins Laboratory



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EX-FS-01@8'

9/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409154-01 (Soil)

pH in Soil by 9045D

pH	8.32			pH Units	1	B410910	09/09/2024	09/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.06		0.258	mg/kg	10	B410638	09/06/2024	09/09/2024	
Barium	105		8.90	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2679394	10/02/2024	10/04/2024	U
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EX-SS-01@7'

9/6/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409154-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410629	09/06/2024	09/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	91.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410631	09/06/2024	09/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

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EX-SS-01@7'

9/6/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409154-02 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B410628	09/06/2024	09/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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EX-SS-01@7'

9/6/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409154-02 (Soil)**

pH in Soil by 9045D

pH	8.29			pH Units	1	B410910	09/09/2024	09/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.99		0.249	mg/kg	10	B410638	09/06/2024	09/09/2024	
Barium	124		8.57	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.179	0.447	mg/kg dry	1	2679394	10/02/2024	10/04/2024	U
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B410629 - EPA 3550B										
Blank (B410629-BLK1)										
					Prepared: 09/06/2024 Analyzed: 09/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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Alfred Garraffa
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 Project: Noble - State #36-614

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410629 - EPA 3550B

LCS (B410629-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0629 - EPA 3550B

Matrix Spike (B4I0629-MS1)	Source: E409137-01			Prepared: 09/06/2024 Analyzed: 09/06/2024						
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.6	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B410629 - EPA 3550B										
Matrix Spike Dup (B410629-MSD1)		Source: E409137-01			Prepared: 09/06/2024 Analyzed: 09/06/2024					
Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	70-130	3.50	35	
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130	3.15	35	
Surrogate: o-Terphenyl	48		"	49.8		97.5	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410631 - EPA 5030 (soil)

Blank (B410631-BLK1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.3		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410631 - EPA 5030 (soil)

LCS (B410631-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100		96.9	70-130			
Benzene	0.0894	0.00200	"	0.100		89.4	70-130			
Ethylbenzene	0.0911	0.00200	"	0.100		91.1	70-130			
Naphthalene	0.0831	0.00380	"	0.100		83.1	70-130			
Toluene	0.0935	0.00200	"	0.100		93.5	70-130			
o-Xylene	0.0912	0.00200	"	0.100		91.2	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0631 - EPA 5030 (soil)

Matrix Spike (B4I0631-MS1)	Source: E409137-01			Prepared: 09/06/2024 Analyzed: 09/06/2024						
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.124	0.00200	"	0.100	ND	124	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	ND	120	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00198	99.4	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.237	0.00400	"	0.200	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		92.0	70-130			

Origins Laboratory



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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I0631 - EPA 5030 (soil)										
Matrix Spike Dup (B4I0631-MSD1)		Source: E409137-01			Prepared: 09/06/2024 Analyzed: 09/06/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	5.45	20	
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	6.38	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.235	20	
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	8.97	20	
Naphthalene	0.125	0.00380	"	0.100	0.00198	123	70-130	20.8	20	QR-02
Toluene	0.114	0.00200	"	0.100	ND	114	70-130	3.00	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	7.50	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	9.51	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.7	70-130			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0638 - EPA 3050B

Blank (B4I0638-BLK1)

Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4I0638-BS1)

Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	5.66	0.290	mg/kg	5.00		113	80-120			
Barium	514	10.0	"	500		103	80-120			
Cadmium	5.10	0.100	"	5.00		102	80-120			
Copper	59.2	10.0	"	50.0		118	80-120			
Lead	5.08	1.00	"	5.00		102	80-120			
Nickel	5.43	1.00	"	5.00		109	80-120			
Selenium	5.41	0.260	"	5.00		108	80-120			
Silver	5.06	0.100	"	5.00		101	80-120			
Zinc	56.1	37.0	"	50.0		112	80-120			

Matrix Spike (B4I0638-MS1)

Source: E409137-03

Prepared: 09/06/2024 Analyzed: 09/09/2024

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 Project: Noble - State #36-614

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0638 - EPA 3050B

Matrix Spike (B4I0638-MS1)		Source: E409137-03			Prepared: 09/06/2024 Analyzed: 09/09/2024					
Arsenic	8.24	0.271	mg/kg	4.67	2.93	114	75-125			
Barium	611	9.35	"	467	146	99.7	75-125			
Cadmium	4.94	0.0935	"	4.67	0.188	102	75-125			
Copper	66.5	9.35	"	46.7	14.7	111	75-125			
Lead	15.9	0.935	"	4.67	11.3	98.7	75-125			
Nickel	22.2	0.935	"	4.67	16.7	117	75-125			
Selenium	4.67	0.243	"	4.67	0.206	95.5	75-125			
Silver	4.73	0.0935	"	4.67	0.0395	100	75-125			
Zinc	105	34.6	"	46.7	54.5	108	75-125			

Matrix Spike Dup (B4I0638-MSD1)		Source: E409137-03			Prepared: 09/06/2024 Analyzed: 09/09/2024					
Arsenic	8.69	0.285	mg/kg	4.91	2.93	117	75-125	5.31	20	
Barium	671	9.82	"	491	146	107	75-125	9.35	20	
Cadmium	5.47	0.0982	"	4.91	0.188	108	75-125	10.1	20	
Copper	70.3	9.82	"	49.1	14.7	113	75-125	5.47	20	
Lead	16.6	0.982	"	4.91	11.3	108	75-125	4.20	20	
Nickel	22.2	0.982	"	4.91	16.7	111	75-125	0.0897	20	
Selenium	5.70	0.255	"	4.91	0.206	112	75-125	20.0	20	
Silver	5.23	0.0982	"	4.91	0.0395	106	75-125	10.1	20	
Zinc	107	36.3	"	49.1	54.5	108	75-125	2.32	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410628 - EPA 3580

Blank (B410628-BLK1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B410628-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.1	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		88.9	70-130			
Acenaphthene	0.185	0.020	"	0.200		92.6	70-130			
Anthracene	0.160	0.020	"	0.200		80.2	70-130			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0628 - EPA 3580

LCS (B4I0628-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

Benzo (a) anthracene	0.157	0.005	mg/kg	0.200		78.3	70-130			
Benzo (a) pyrene	0.171	0.020	"	0.200		85.4	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200		109	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		93.9	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Chrysene	0.166	0.020	"	0.200		82.9	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.2	70-130			
Fluoranthene	0.185	0.020	"	0.200		92.5	70-130			
Fluorene	0.184	0.020	"	0.200		92.1	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		93.1	70-130			
Naphthalene	0.182	0.002	"	0.200		91.1	70-130			
Phenanthrene	0.172	0.020	"	0.200		86.0	70-130			
Pyrene	0.170	0.020	"	0.200		85.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike (B4I0628-MS1)

Source: Y408834-04

Prepared: 09/06/2024 Analyzed: 09/06/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0005	96.7	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.3	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130			
Anthracene	0.165	0.020	"	0.200	0.003	81.2	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.009	86.7	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200	0.011	89.0	70-130			
Benzo (b) fluoranthene	0.246	0.020	"	0.200	0.007	120	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.003	99.9	70-130			

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 Project: Noble - State #36-614

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0628 - EPA 3580

Matrix Spike (B4I0628-MS1)		Source: Y408834-04			Prepared: 09/06/2024 Analyzed: 09/06/2024					
Benzo (k) fluoranthene	0.203	0.020	mg/kg	0.200	0.001	101	70-130			
Chrysene	0.193	0.020	"	0.200	0.008	92.5	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.231	0.020	"	0.200	0.019	106	70-130			
Fluorene	0.195	0.020	"	0.200	0.001	97.1	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	0.003	97.8	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	99.0	70-130			
Phenanthrene	0.189	0.020	"	0.200	0.007	90.8	70-130			
Pyrene	0.212	0.020	"	0.200	0.018	97.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	170		"	200		87.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4I0628-MSD1)		Source: Y408834-04			Prepared: 09/06/2024 Analyzed: 09/06/2024					
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	0.0005	98.4	70-130	1.73	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	102	70-130	4.39	20	
Acenaphthene	0.208	0.020	"	0.200	ND	104	70-130	3.65	20	
Anthracene	0.170	0.020	"	0.200	0.003	83.5	70-130	2.77	20	
Benzo (a) anthracene	0.194	0.005	"	0.200	0.009	92.4	70-130	5.98	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	0.011	94.7	70-130	5.87	20	
Benzo (b) fluoranthene	0.248	0.020	"	0.200	0.007	121	70-130	0.799	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.003	102	70-130	2.17	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	0.001	88.4	70-130	13.1	20	
Chrysene	0.194	0.020	"	0.200	0.008	93.1	70-130	0.621	20	
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130	4.09	20	
Fluoranthene	0.227	0.020	"	0.200	0.019	104	70-130	1.72	20	

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 Project: Noble - State #36-614

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410628 - EPA 3580

Matrix Spike Dup (B410628-MSD1)	Source: Y408834-04			Prepared: 09/06/2024 Analyzed: 09/06/2024						
Fluorene	0.200	0.020	mg/kg	0.200	0.001	99.5	70-130	2.50	20	
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	0.003	100	70-130	2.56	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	3.80	20	
Phenanthrene	0.197	0.020	"	0.200	0.007	95.2	70-130	4.50	20	
Pyrene	0.209	0.020	"	0.200	0.018	95.7	70-130	1.51	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

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Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410910 - Saturated Paste pH/EC

Duplicate (B410910-DUP1)

Source: E409075-19

Prepared: 09/09/2024 Analyzed: 09/11/2024

pH	8.12		pH Units		8.06			0.742	25	
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Jordan A. Bynon For Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2679394 - SW846 3060A										
BLANK (1205869430-BLK)					Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	ND	0.395	mg/kg				-			U
LCS (1205869431-BKS)					Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	3.93	0.391	mg/kg	3.91		101	80-120			
DUP (1205869432 D)					Source: 684835001 Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	ND	0.293	mg/kg dry		<0.117		0-50	N/A	50	U
MS (1205869433 S)					Source: 684835001 Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	3.17	0.369	mg/kg dry	3.69	<0.147	86.1	75-125			
DUP (1205869434 D)					Source: 684835002 Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	ND	0.426	mg/kg dry		<0.170		0-50	N/A	50	U
MS (1205869435 S)					Source: 684835002 Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	4.17	0.419	mg/kg dry	4.19	<0.168	96.1	75-125			
ILCS (1205869436-ILCS)					Prepared: 10/02/2024 Analyzed: 10/04/2024					
Hexavalent Chromium	7.78	0.376	mg/kg	7.61		102	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 on a wet weight basis.

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