



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

October 15, 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 11, 2024. This project is associated with Origins project number E409288-01.

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-SS-10@7'	E409288-01	Soil	September 11, 2024 8:45	09/11/2024 15:30
EX-SS-11@7'	E409288-02	Soil	September 11, 2024 8:50	09/11/2024 15:30
EX-SS-12@7'	E409288-03	Soil	September 11, 2024 13:15	09/11/2024 15:30
EX-SS-13@7'	E409288-04	Soil	September 11, 2024 13:20	09/11/2024 15:30
EX-SS-14@7'	E409288-05	Soil	September 11, 2024 13:35	09/11/2024 15:30
EX-SS-15@7'	E409288-06	Soil	September 11, 2024 13:40	09/11/2024 15:30
EX-SS-16@7'	E409288-07	Soil	September 11, 2024 13:45	09/11/2024 15:30
EX-SS-17@7'	E409288-08	Soil	September 11, 2024 13:50	09/11/2024 15:30

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

ORIGINS

LABORATORY LLC

ORIGINS WORK ORDER #

EW09288

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: State #36-614

W=Water

Telephone Number: 303-433-0479

Project Number: ---

GM=Groundwater

Email Address: agarraffa@eagle-env.com

Collected By: EG

SW=Surface Water

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


L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						Analysis	Analysis	
1	EX-55-10e7'	9/11/24	0845	3	UNP	X	X	NOIS Method
2	EX-55-11e7'		0850	1		X	X	
3	EX-55-12e7'		1315	1		X	X	pH = Saturated Calc Prep
4	EX-55-13e7'		1320	1		X	X	
5	EX-55-14e7'		1335	1		X	X	
6	EX-55-15e7'		1340	1		X	X	
7	EX-55-16e7'		1345	1		X	X	
8	EX-55-17e7'		1350	1		X	X	
9								
10								

Relinquished By: [Signature] Date: 9/11/24 Time: 1530
 Received By: [Signature] Date: 9/11/24 Time: 1530

Temp Received: 1.9 Received On Ice? Yes No

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Origins Laboratory


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8000 W 44th Ave
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Alfred Garraffa
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: E409288

Client: Eagle

Client Project ID: State 36-614

Checklist Completed by: SHD

Shipped Via: HO

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

Date/time completed: 9/11/14

Airbill #: N/A

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

Cooler Number/Temperature: 1/119 °C / _____ °C / _____ °C (Describe) _____ °C

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"/>	<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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" 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) SHD

Date/Time Reviewed 9/11/14

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

EX-SS-10@7'

9/11/2024 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	99.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	87.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	85.5 %		70-130			"	"	"	

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EX-SS-10@7'

9/11/2024 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-01 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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EX-SS-10@7'

9/11/2024 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-01 (Soil)**

pH in Soil by 9045D

pH	8.27			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.10		0.252	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	109		8.68	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.172	0.430	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

EX-SS-11@7'

9/11/2024 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	88.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.5 %		70-130			"	"	"	

Origins Laboratory



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8000 W 44th Ave
Wheat Ridge CO 80033

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

EX-SS-11@7'

9/11/2024 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-02 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Origins Laboratory



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

EX-SS-11@7'

9/11/2024 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-02 (Soil)**

pH in Soil by 9045D

pH	8.25			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.81		0.272	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	125		9.37	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.141	0.353	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

EX-SS-12@7'

9/11/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	105 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	88.5 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	83.6 %	70-130	"	"	"	"	"	"

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

EX-SS-12@7'

9/11/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-03 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

EX-SS-12@7'

9/11/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-03 (Soil)**

pH in Soil by 9045D

pH	8.27			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.96		0.282	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	109		9.73	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.140	0.351	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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 8000 W 44th Ave
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 Project Number: [none]
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EX-SS-13@7'

9/11/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	115 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	87.6 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	83.8 %	70-130	"	"	"	"	"	"

Origins Laboratory



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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

EX-SS-13@7'

9/11/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-04 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	110 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

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

EX-SS-13@7'

9/11/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-04 (Soil)**

pH in Soil by 9045D

pH	8.37			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.62		0.264	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	87.9		9.09	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.108	0.271	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

EX-SS-14@7'

9/11/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-05 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

<i>Surrogate: o-Terphenyl</i>	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	87.8 %		70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.8 %		70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	83.8 %		70-130			"	"	"	

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

EX-SS-14@7'

9/11/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-05 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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

EX-SS-14@7'

9/11/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-05 (Soil)**

pH in Soil by 9045D

pH	8.35			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	8.01		0.289	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	75.6		9.96	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.126	0.314	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

EX-SS-15@7'

9/11/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-06 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	84.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.8 %		70-130			"	"	"	

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

EX-SS-15@7'

9/11/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-06 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

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

EX-SS-15@7'

9/11/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-06 (Soil)**

pH in Soil by 9045D

pH	8.45			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.85		0.273	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	98.8		9.41	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.302	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

EX-SS-16@7'

9/11/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	110 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	85.5 %	70-130	"	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"	"
Surrogate: 4-Bromofluorobenzene	85.0 %	70-130	"	"	"	"

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

EX-SS-16@7'

9/11/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-07 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

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

EX-SS-16@7'

9/11/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-07 (Soil)**

pH in Soil by 9045D

pH	8.48			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	16.8		0.287	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	58.5		9.89	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.184	0.461	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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Origins Laboratory

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

EX-SS-17@7'

9/11/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409288-08 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411134	09/11/2024	09/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	109 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411136	09/11/2024	09/12/2024	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	87.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.6 %		70-130			"	"	"	

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

EX-SS-17@7'

9/11/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409288-08 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411133	09/11/2024	09/11/2024	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	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130	"	"	"

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

EX-SS-17@7'

9/11/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409288-08 (Soil)**

pH in Soil by 9045D

pH	8.37			pH Units	1	B411628	09/16/2024	09/18/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.59		0.288	mg/kg	10	B411138	09/11/2024	09/12/2024	
Barium	103		9.93	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2682484	10/08/2024	10/08/2024	U
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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

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 B411134 - EPA 3550B										
Blank (B411134-BLK1)										
					Prepared: 09/11/2024 Analyzed: 09/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

Origins Laboratory

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Alfred Garraffa
 Project Number: [none]
 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 B411134 - EPA 3550B

LCS (B411134-BS1)

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

Diesel (C10-C28)	851	50.0	mg/kg	1000		85.1	70-130			
Residual Range Organics (C28-C40)	891	200	"	1000		89.1	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Alfred Garraffa
 Project Number: [none]
 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 B411134 - EPA 3550B

Matrix Spike (B411134-MS1)	Source: E409287-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Diesel (C10-C28)	916	50.0	mg/kg	1000	ND	91.6	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130			
Surrogate: o-Terphenyl	64		"	49.8		128	50-150			

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 Project Number: [none]
 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 B411134 - EPA 3550B

Matrix Spike Dup (B411134-MSD1)	Source: E409287-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130	2.68	35	
Residual Range Organics (C28-C40)	942	200	"	1000	ND	94.2	70-130	4.22	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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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 B411136 - EPA 5030 (soil)

Blank (B411136-BLK1)

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

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	0.11		"	0.125	86.8		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	82.6		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 B4I1136 - EPA 5030 (soil)

LCS (B4I1136-BS1)

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

1,2,4-Trimethylbenzene	0.0974	0.00200	mg/kg	0.100		97.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0982	0.00380	"	0.100		98.2	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

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 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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Batch B411136 - EPA 5030 (soil)

Matrix Spike (B411136-MS1)	Source: E409287-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0936	0.00200	mg/kg	0.100	ND	93.6	70-130			
1,3,5-Trimethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
Naphthalene	0.0963	0.00380	"	0.100	ND	96.3	70-130			
Toluene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.6	70-130			

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 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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Batch B411136 - EPA 5030 (soil)

Matrix Spike Dup (B411136-MSD1)	Source: E409287-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0913	0.00200	mg/kg	0.100	ND	91.3	70-130	2.47	20	
1,3,5-Trimethylbenzene	0.0942	0.00200	"	0.100	ND	94.2	70-130	3.93	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	0.682	20	
Ethylbenzene	0.0948	0.00200	"	0.100	ND	94.8	70-130	3.89	20	
Naphthalene	0.0985	0.00380	"	0.100	ND	98.5	70-130	2.26	20	
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130	2.01	20	
o-Xylene	0.0948	0.00200	"	0.100	ND	94.8	70-130	2.93	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	3.44	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

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 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 B4I1138 - EPA 3050B

Blank (B4I1138-BLK1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

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 (B4I1138-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Arsenic	5.23	0.290	mg/kg	5.00		105	80-120			
Barium	520	10.0	"	500		104	80-120			
Cadmium	5.29	0.100	"	5.00		106	80-120			
Copper	53.4	10.0	"	50.0		107	80-120			
Lead	5.03	1.00	"	5.00		101	80-120			
Nickel	5.15	1.00	"	5.00		103	80-120			
Selenium	5.23	0.260	"	5.00		105	80-120			
Silver	5.19	0.100	"	5.00		104	80-120			
Zinc	52.7	37.0	"	50.0		105	80-120			

Matrix Spike (B4I1138-MS1)

Source: E409288-01

Prepared: 09/11/2024 Analyzed: 09/12/2024

Origins Laboratory

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Alfred Garraffa
 Project Number: [none]
 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 B411138 - EPA 3050B

Matrix Spike (B411138-MS1)		Source: E409288-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Arsenic	11.3	0.268	mg/kg	4.62	5.10	133	75-125			QM-07
Barium	568	9.23	"	462	109	99.4	75-125			
Cadmium	4.69	0.0923	"	4.62	0.0746	100	75-125			
Copper	49.0	9.23	"	46.2	3.72	98.0	75-125			
Lead	8.97	0.923	"	4.62	4.01	107	75-125			
Nickel	9.05	0.923	"	4.62	4.65	95.3	75-125			
Selenium	4.57	0.240	"	4.62	0.0477	98.0	75-125			
Silver	4.69	0.0923	"	4.62	0.0191	101	75-125			
Zinc	64.4	34.2	"	46.2	18.5	99.4	75-125			

Matrix Spike Dup (B411138-MSD1)		Source: E409288-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Arsenic	12.5	0.259	mg/kg	4.47	5.10	165	75-125	10.1	20	QM-07
Barium	554	8.94	"	447	109	99.5	75-125	2.46	20	
Cadmium	4.46	0.0894	"	4.47	0.0746	98.1	75-125	4.99	20	
Copper	47.4	8.94	"	44.7	3.72	97.7	75-125	3.21	20	
Lead	9.40	0.894	"	4.47	4.01	121	75-125	4.73	20	
Nickel	9.27	0.894	"	4.47	4.65	103	75-125	2.34	20	
Selenium	4.36	0.233	"	4.47	0.0477	96.5	75-125	4.67	20	
Silver	4.45	0.0894	"	4.47	0.0191	99.1	75-125	5.23	20	
Zinc	63.3	33.1	"	44.7	18.5	100	75-125	1.79	20	

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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 B4I1133 - EPA 3580

Blank (B4I1133-BLK1)

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

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		88.9	60-130			
Surrogate: Pyrene-d10	190		"	200		96.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4I1133-BS1)

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

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		88.9	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		89.2	70-130			
Acenaphthene	0.185	0.020	"	0.200		92.5	70-130			
Anthracene	0.165	0.020	"	0.200		82.7	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 B4I1133 - EPA 3580

LCS (B4I1133-BS1)

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

Benzo (a) anthracene	0.162	0.005	mg/kg	0.200		81.0	70-130			
Benzo (a) pyrene	0.170	0.020	"	0.200		84.9	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200		91.7	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.7	70-130			
Chrysene	0.168	0.020	"	0.200		83.8	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		95.9	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.7	70-130			
Fluorene	0.183	0.020	"	0.200		91.4	70-130			
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200		90.5	70-130			
Naphthalene	0.182	0.002	"	0.200		90.8	70-130			
Phenanthrene	0.168	0.020	"	0.200		84.2	70-130			
Pyrene	0.161	0.020	"	0.200		80.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		91.1	60-130			
Surrogate: Pyrene-d10	180		"	200		90.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

Matrix Spike (B4I1133-MS1)

Source: E409288-01

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

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	0.002	91.0	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.8	70-130			
Acenaphthene	0.189	0.020	"	0.200	0.001	94.0	70-130			
Anthracene	0.169	0.020	"	0.200	0.0006	84.3	70-130			
Benzo (a) anthracene	0.167	0.005	"	0.200	0.0005	83.5	70-130			
Benzo (a) pyrene	0.170	0.020	"	0.200	ND	84.8	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	ND	109	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.3	70-130			

Origins Laboratory



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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 B411133 - EPA 3580

Matrix Spike (B411133-MS1)	Source: E409288-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Benzo (k) fluoranthene	0.164	0.020	mg/kg	0.200	ND	82.2	70-130			
Chrysene	0.172	0.020	"	0.200	ND	85.8	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.6	70-130			
Fluoranthene	0.195	0.020	"	0.200	ND	97.7	70-130			
Fluorene	0.187	0.020	"	0.200	0.001	93.2	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.2	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.5	70-130			
Phenanthrene	0.175	0.020	"	0.200	ND	87.7	70-130			
Pyrene	0.174	0.020	"	0.200	ND	87.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	180		"	200		92.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B411133-MSD1)	Source: E409288-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1-Methylnaphthalene	0.182	0.002	mg/kg	0.200	0.002	90.1	70-130	0.976	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	92.2	70-130	0.378	20	
Acenaphthene	0.195	0.020	"	0.200	0.001	97.0	70-130	3.09	20	
Anthracene	0.163	0.020	"	0.200	0.0006	81.0	70-130	3.98	20	
Benzo (a) anthracene	0.172	0.005	"	0.200	0.0005	85.6	70-130	2.55	20	
Benzo (a) pyrene	0.174	0.020	"	0.200	ND	86.9	70-130	2.41	20	
Benzo (b) fluoranthene	0.218	0.020	"	0.200	ND	109	70-130	0.0768	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	92.0	70-130	0.404	20	
Benzo (k) fluoranthene	0.170	0.020	"	0.200	ND	85.2	70-130	3.60	20	
Chrysene	0.171	0.020	"	0.200	ND	85.4	70-130	0.519	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130	2.16	20	
Fluoranthene	0.195	0.020	"	0.200	ND	97.3	70-130	0.415	20	

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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

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 B411133 - EPA 3580

Matrix Spike Dup (B411133-MSD1)	Source: E409288-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Fluorene	0.188	0.020	mg/kg	0.200	0.001	93.4	70-130	0.251	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	ND	93.2	70-130	2.17	20	
Naphthalene	0.188	0.002	"	0.200	ND	94.0	70-130	0.461	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.3	70-130	0.442	20	
Pyrene	0.172	0.020	"	0.200	ND	85.8	70-130	1.44	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	180		"	200		91.5	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

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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 B411628 - Saturated Paste pH/EC

Duplicate (B411628-DUP1)		Source: E409288-01			Prepared: 09/16/2024 Analyzed: 09/18/2024					
pH	8.25		pH Units		8.27			0.242	25	

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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 2682484 - SW846 3060A										
BLANK (1205875396-BLK)					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.357	mg/kg				-			U
LCS (1205875397-BKS)					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.75	0.377	mg/kg	3.77		99.5	80-120			
DUP (1205875398 D)					Source: 685647001 Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.460	mg/kg dry		<0.184		0-50	N/A	50	U
MS (1205875399 S)					Source: 685647001 Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.17	0.319	mg/kg dry	3.19	<0.128	99.5	75-125			
DUP (1205875400 D)					Source: 685647002 Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.435	mg/kg dry		<0.174		0-50	N/A	50	U
MS (1205875401 S)					Source: 685647002 Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	4.17	0.439	mg/kg dry	4.39	<0.175	93.9	75-125			
ILCS (1205875402-ILCS)					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	7.82	0.374	mg/kg	7.50		104	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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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