



January 29, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. November 14, 2023. This project is associated with Origins project number Y311378-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y311378-01	Soil	November 14, 2023 14:43	11/14/2023 17:14

A pH rerun was requested per Kendra's email on 12/05/2023. No errors were found in the original data, all results are reported. JAB

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

www.originslaboratory.com
 YS1137S
 Project Manager: Andrew Newberry
 Project Name: Sater CC #18-17D
 Project Number: [blank]
 Samples Collected By: [blank]

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303.433.0479
 Email Address: andrew@eagleenv.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	Relinquished By:	Date:	Time:	Turnaround Time:
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil						
WA-18-17D-1	11/14/23	14:43	3						X				11/14/23	17:14	Same Day
WA-18-17D-2									X				11/14/23	17:14	48 Hr
WA-18-17D-3									X				11/14/23	17:14	72 Hr
WA-18-17D-4									X				11/14/23	17:14	Standard
WA-18-17D-5									X				11/14/23	17:14	Standard
WA-18-17D-6									X				11/14/23	17:14	Standard
WA-18-17D-7									X				11/14/23	17:14	Standard
WA-18-17D-8									X				11/14/23	17:14	Standard
WA-18-17D-9									X				11/14/23	17:14	Standard
WA-18-17D-10									X				11/14/23	17:14	Standard

Relinquished By: Andrew Newberry
 Date: 11/14/23
 Time: 17:14

Relinquished By: Andrew Newberry
 Date: 11/14/23
 Time: 17:14

Temp Received: 29
 Date Results Needed: 11/14/23

Origins Laboratory, Inc.



Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: V311378

Client: Eagle

Client Project ID: Sater CC 18-17D

Checklist Completed by: JG/MS

Shipped Via: HD

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

Date/time completed: 11/15/23

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1, 24 °C

°C

°C

°C

Thermometer ID: T004

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 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 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 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?	<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 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 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)

Date/Time Reviewed

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

WH-FS-01@6'
11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.116		0.0993	mg/L	1	B3K1610	11/16/2023	11/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1501	11/15/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.9% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1517	11/15/2023	11/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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11/14/2023 2:43:00PM

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Origins Laboratory, Inc.
Y311378-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130			B3K15 17	11/15/2023	11/15/2023	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.603		0.499	meq/L	10	[CALC]	11/16/2023	11/17/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.10		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1632	11/16/2023	11/18/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3K1632	11/16/2023	11/18/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8%	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	86.6%	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	97.6%	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.7%	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B3K1614	11/16/2023	11/17/2023	
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SAR by 20B Saturated Paste

SAR	3.17	0.0100	SAR	1	B3K1612	11/16/2023	11/17/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.342	0.00500	mmhos/cm	1	B3K1614	11/16/2023	11/17/2023
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Table 915 metals by EPA 6020B

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WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y311378-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.987		0.0990	mg/kg	10	B3K2707	11/27/2023	11/29/2023	
Barium	125		9.90	"	"	"	"	"	
Cadmium	ND		0.0990	"	"	"	"	"	
Copper	ND		9.90	"	"	"	"	"	
Lead	ND		9.90	"	"	"	"	"	
Nickel	ND		9.90	"	"	"	"	"	
Selenium	ND		0.0990	"	"	"	"	"	
Silver	ND		0.0990	"	"	"	"	"	
Zinc	ND		99.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717955	11/14/2023	11/20/2023	
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Jordan A. Bynon, Project Manager



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WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01RE1 (Soil)

pH in Soil by 9045D

pH	8.38			pH Units	1	B3L2216	11/16/2023	12/26/2023	
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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01RE2 (Soil)

pH in Soil by 9045D

pH	8.28			pH Units	1	B3L2216	11/16/2023	12/26/2023	
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Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - 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 B3K1501 - EPA 3550B

Blank (B3K1501-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B3K1501 - EPA 3550B

LCS (B3K1501-BS1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Extractable Petroleum Hydrocarbons by 8015D - 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 B3K1501 - EPA 3550B

Matrix Spike (B3K1501-MS1)

Source: Y311320-02

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	151	90.1	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.5	50-150			

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 Wheat Ridge CO 80033

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Extractable Petroleum Hydrocarbons by 8015D - 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 B3K1501 - EPA 3550B

Matrix Spike Dup (B3K1501-MSD1)

Source: Y311320-02

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	11.6	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	151	108	70-130	15.4	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B3K1517 - EPA 5030 (soil)

Blank (B3K1517-BLK1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3K1517 - EPA 5030 (soil)

LCS (B3K1517-BS1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0939	0.00200	"	0.100		93.9	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3K1517 - EPA 5030 (soil)

Matrix Spike (B3K1517-MS1)

Source: Y311362-01

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00110	99.8	70-130			
Toluene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3K1517 - EPA 5030 (soil)

Matrix Spike Dup (B3K1517-MSD1)

Source: Y311362-01

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130	5.80	20	
1,3,5-Trimethylbenzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	6.68	20	
Benzene	0.0898	0.00200	"	0.100	ND	89.8	70-130	2.55	20	
Ethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.26	20	
Naphthalene	0.0974	0.00380	"	0.100	0.00110	96.3	70-130	3.55	20	
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130	2.15	20	
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130	3.73	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	4.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Volatile Organic Compounds by GC/MS SW846 8260D - 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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Metals by EPA 6000/7000 Series Methods - 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 B3K2707 - EPA 3050B

Blank (B3K2707-BLK1)

Prepared: 11/27/2023 Analyzed: 12/05/2023

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	10.0	"							

LCS (B3K2707-BS1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	4.65	0.0100	mg/kg	5.00		93.0	80-120			
Barium	476	1.00	"	500		95.2	80-120			
Cadmium	4.65	0.0100	"	5.00		93.0	80-120			
Copper	50.3	1.00	"	50.0		101	80-120			
Lead	4.64	1.00	"	5.00		92.9	80-120			
Nickel	5.00	1.00	"	5.00		100	80-120			
Selenium	4.10	0.0100	"	5.00		82.0	80-120			
Silver	4.81	0.0100	"	5.00		96.1	80-120			
Zinc	45.1	10.0	"	50.0		90.2	80-120			

Matrix Spike (B3K2707-MS1)

Source: Y311372-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Metals by EPA 6000/7000 Series Methods - 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 B3K2707 - EPA 3050B

Matrix Spike (B3K2707-MS1)

Source: Y311372-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	6.12	0.0868	mg/kg	4.34	1.37	110	75-125			
Barium	485	8.68	"	434	25.6	106	75-125			
Cadmium	4.49	0.0868	"	4.34	0.0804	102	75-125			
Copper	50.2	8.68	"	43.4	2.35	110	75-125			
Lead	9.04	8.68	"	4.34	3.74	122	75-125			
Nickel	8.57	8.68	"	4.34	2.97	129	75-125			QM-07
Selenium	3.99	0.0868	"	4.34	0.0952	89.8	75-125			
Silver	4.51	0.0868	"	4.34	0.0203	104	75-125			
Zinc	58.5	86.8	"	43.4	13.0	105	75-125			

Matrix Spike Dup (B3K2707-MSD1)

Source: Y311372-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	5.33	0.0964	mg/kg	4.82	1.37	82.3	75-125	13.7	20	
Barium	428	9.64	"	482	25.6	83.4	75-125	12.4	20	
Cadmium	4.02	0.0964	"	4.82	0.0804	81.7	75-125	11.0	20	
Copper	45.3	9.64	"	48.2	2.35	89.0	75-125	10.4	20	
Lead	8.14	9.64	"	4.82	3.74	91.3	75-125	10.5	20	
Nickel	7.56	9.64	"	4.82	2.97	95.1	75-125	12.6	20	
Selenium	3.38	0.0964	"	4.82	0.0952	68.2	75-125	16.5	20	QM-07
Silver	4.01	0.0964	"	4.82	0.0203	82.8	75-125	11.8	20	
Zinc	51.9	96.4	"	48.2	13.0	80.7	75-125	11.9	20	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1632 - EPA 3580

Blank (B3K1632-BLK1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		83.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.8	60-130			

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1632 - EPA 3580

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		83.1	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.1	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.5	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200		93.4	70-130			
Fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Fluorene	0.196	0.020	"	0.200		97.8	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.0	70-130			
Naphthalene	0.196	0.002	"	0.200		98.1	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130			
Pyrene	0.176	0.020	"	0.200		88.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		91.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Matrix Spike (B3K1632-MS1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.0	70-130			
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0006	87.2	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.4	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1632 - EPA 3580

Matrix Spike (B3K1632-MS1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.4	70-130			
Chrysene	0.183	0.020	"	0.200	0.0003	91.1	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.2	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.6	70-130			
Pyrene	0.186	0.020	"	0.200	ND	93.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B3K1632-MSD1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	2.40	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.5	70-130	3.59	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	2.98	20	
Anthracene	0.175	0.020	"	0.200	ND	87.3	70-130	8.21	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.0	70-130	4.19	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	4.29	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	1.66	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	6.94	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	ND	98.2	70-130	0.243	20	
Chrysene	0.186	0.020	"	0.200	0.0003	93.1	70-130	2.11	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.2	70-130	1.97	20	
Fluoranthene	0.200	0.020	"	0.200	ND	100	70-130	6.99	20	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1632 - EPA 3580

Matrix Spike Dup (B3K1632-MSD1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	4.07	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.7	70-130	6.29	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	7.05	20	
Phenanthrene	0.191	0.020	"	0.200	ND	95.7	70-130	2.17	20	
Pyrene	0.183	0.020	"	0.200	ND	91.7	70-130	1.67	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Classical Chemistry Parameters - 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 B3K1610 - DTPA Sorbitol Preparation

Blank (B3K1610-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron ND 0.100 mg/L

Duplicate (B3K1610-DUP1)

Source: Y311375-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron 0.0782 0.100 mg/L

0.124 45.4 50

Batch B3K1612 - Saturated Paste Metals

Blank (B3K1612-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3K1612-DUP1)

Source: Y311376-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

SAR ND 0.0100 SAR

2.07 200

Calcium PPM 18.3 10.0 mg/L

18.8 2.54 50

Magnesium PPM 5.88 10.0 "

5.85 0.512 50

Sodium PPM 38.6 10.0 "

40.0 3.62 50

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Saturated Paste - 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 B3K1614 - Saturated Paste pH/EC

Blank (B3K1614-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1614-DUP1)

Source: Y311376-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

pH 8.11 pH Units 8.24 1.59 25

Specific Conductance (EC) 0.349 0.00500 mmhos/cm 0.344 1.33 25

Batch B3L2216 - Saturated Paste pH/EC

Duplicate (B3L2216-DUP1)

Source: Y312611-01

Prepared: 12/22/2023 Analyzed: 12/26/2023

pH 7.89 pH Units 7.88 0.127 25

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L717955 -

DUP (L 98403-DUP)

Source: 98403

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 98403-MS)

Source: 98403

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	34.9	2.5	mg/Kg	39.1	<1.22	89	75-125		
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LCS (LCS)

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	6.87	0.5	mg/Kg	8		86	75-125		
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LRB (LRB)

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

Notes and Definitions

- U Sample is Non-Detect.
 - 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.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager