



November 28, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sitzman #27-8

Project Number - [none]

Attached are your analytical results for Noble - Sitzman #27-8 received by Origins Laboratory, Inc. November 15, 2023. This project is associated with Origins project number Y311401-01.

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 - Sitzman #27-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-03@4	Y311401-01	Soil	November 15, 2023 12:52	11/15/2023 14:42

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sitzman #27-8

Origins Laboratory F-012207-01-R1
Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 43114081 Client: Edgale
Client Project ID: Sitzman #27-8
Checklist Completed by: 11/15/23 S Shipped Via: HD
Date/time completed: ETS 4 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1, 4 °C / _____ °C / _____ °C (Describe)
Thermometer ID: TC04

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 ⁽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 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) [Signature]

Date/Time Reviewed 11/17/23

Origins Laboratory, Inc.

[Signature]

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 Project Number: [none]
 Project: Noble - Sitzman #27-8

FL-SS-03@4'
11/15/2023 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311401-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.820	0.0984	mg/L	1	B3K1610	KAP	11/16/2023	11/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K1601	ZZZ	11/16/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	76.4 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K1531	HKS	11/15/2023	11/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	98.6 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		"	"	"	"	

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11/15/2023 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311401-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.74	0.499	meq/L	10	[CALC]	KAP	11/16/2023	11/17/2023	
Magnesium	2.38	0.823	"	"	"	KAP	"	"	
Sodium	8.51	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K1632	Windo	11/16/2023	11/20/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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11/15/2023 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311401-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.5 %		60-130		B3K16 32		11/16/2023	11/20/2023	
Surrogate: Anthracene-d10	93.1 %		60-130		"		"	"	
Surrogate: Pyrene-d10	105 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	95.2 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.13		pH Units	1	B3K1614	EAL	11/16/2023	11/17/2023	
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SAR by 20B Saturated Paste

SAR	4.22	0.0100	SAR	1	B3K1612	KAP	11/16/2023	11/17/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.68	0.00500	mmhos/cm	1	B3K1614	EAL	11/16/2023	11/17/2023	
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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 B3K1531 - EPA 5030 (soil)

Blank (B3K1531-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		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B3K1531 - EPA 5030 (soil)

LCS (B3K1531-BS1)

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

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	115	70-130				
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100	119	70-130				
Benzene	0.100	0.00200	"	0.100	100	70-130				
Ethylbenzene	0.111	0.00200	"	0.100	111	70-130				
Naphthalene	0.0976	0.00380	"	0.100	97.6	70-130				
Toluene	0.113	0.00200	"	0.100	113	70-130				
o-Xylene	0.112	0.00200	"	0.100	112	70-130				
m,p-Xylene	0.221	0.00400	"	0.200	111	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	103	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.1	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 B3K1531 - EPA 5030 (soil)

Matrix Spike (B3K1531-MS1)

Source: Y311391-01

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

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.0975	0.00380	"	0.100	0.000520	96.9	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K1531 - EPA 5030 (soil)

Matrix Spike Dup (B3K1531-MSD1)

Source: Y311391-01

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

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130	0.183	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	0.132	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.800	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.07	20	
Naphthalene	0.104	0.00380	"	0.100	0.000520	103	70-130	6.28	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	1.25	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	0.159	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	0.574	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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 B3K1601 - EPA 3550B

Blank (B3K1601-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.7	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 B3K1601 - EPA 3550B

LCS (B3K1601-BS1)

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

Diesel (C10-C28)	872	50.0	mg/kg	1000		87.2	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.6	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 B3K1601 - EPA 3550B

Matrix Spike (B3K1601-MS1)

Source: Y311391-01

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

Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K1601 - EPA 3550B

Matrix Spike Dup (B3K1601-MSD1)

Source: Y311391-01

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

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	13.5	35	
Residual Range Organics (C28-C40)	1300	200	"	1000	ND	130	70-130	14.6	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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			

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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

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			
Benzo (a) anthracene	0.166	0.005	"	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			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sitzman #27-8

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 (a) anthracene	0.175	0.005	mg/kg	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			
Benzo (k) fluoranthene	0.197	0.020	"	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	

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Andrew Newberry
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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

Benzo (k) fluoranthene	0.196	0.020	mg/kg	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	
Fluorene	0.203	0.020	"	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			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

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

SAR ND 0.0100 SAR
 Calcium PPM ND 10.0 mg/L
 Magnesium PPM ND 10.0 "
 Sodium PPM ND 10.0 "

Duplicate (B3K1612-DUP1) Source: Y311376-01 Prepared: 11/16/2023 Analyzed: 11/17/2023

Calcium PPM 18.3 10.0 mg/L 18.8 2.54 50
 SAR ND 0.0100 SAR 2.07 200
 Magnesium PPM 5.88 10.0 mg/L 5.85 0.512 50
 Sodium PPM 38.6 10.0 " 40.0 3.62 50

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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

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Andrew Newberry
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Project: Noble - Sitzman #27-8

Notes and Definitions

- U Sample is Non-Detect.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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