



October 25, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Trebor #B11-15

Project Number - [none]

Attached are your analytical results for Noble - Trebor #B11-15 received by Origins Laboratory, Inc. October 09, 2023. This project is associated with Origins project number Y310254-01.

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Trebor #B11-15

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y310254-01	Soil	October 9, 2023 9:50	10/09/2023 12:07

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Trebor #B11-15

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

**Sample Receipt Checklist**

Origins Work Order: 4310254 Client: Eagle

Client Project ID: Trebor #B11-15

Checklist Completed by: EHS Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/9/23 Airbill #: N/A

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

Cooler Number/Temperature: 131 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>1)</sup> ?	<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 <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTS due within 48 hours present <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>1)</sup> ?	<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 <sup>1)</sup> ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH > 12 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 10/10/23

Origins Laboratory, Inc.  
[Signature]

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 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**WH-FS-01@6'**  
**10/9/2023 9:50:00AM**

**Origins Laboratory, Inc.**  
**Y310254-01 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.103		0.0994	mg/L	1	B3J1115	10/11/2023	10/12/2023	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J1101	10/11/2023	10/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	86.8 %		50-150	"	"	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J0937	10/10/2023	10/10/2023	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

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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**WH-FS-01@6'**  
**10/9/2023 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310254-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			B3J09 37	10/10/2023	10/10/2023	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.947		0.499	meq/L	10	[CALC]	10/10/2023	10/11/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.36		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3J0932	10/09/2023	10/12/2023	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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**10/9/2023 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310254-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3J0932	10/09/2023	10/12/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	126 %		60-130			"	"	"	
Surrogate: Pyrene-d10	131 %		60-130			"	"	"	S-07
Surrogate: Benzo (a) pyrene-d12	90.7 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B3J1017	10/10/2023	10/11/2023	
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**SAR by 20B Saturated Paste**

SAR	1.53		0.0100	SAR	1	B3J1013	10/10/2023	10/11/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.364		0.00500	mmhos/cm	1	B3J1017	10/10/2023	10/11/2023	
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**Table 915 metals by EPA 6020B**

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**WH-FS-01@6'**  
**10/9/2023 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310254-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.20		0.0932	mg/kg	10	B3J1018	10/10/2023	10/13/2023	
Barium	57.3		9.32	"	"	"	"	"	
Cadmium	ND		0.0932	"	"	"	"	"	
Copper	ND		9.32	"	"	"	"	"	
Lead	11.0		9.32	"	"	"	"	"	
Nickel	ND		9.32	"	"	"	"	"	
Selenium	ND		0.0932	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	
Zinc	ND		93.2	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L712444	10/09/2023	10/23/2023	
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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 B3J0937 - EPA 5030 (soil)

Prepared: 10/10/2023 Analyzed: 10/10/2023

Blank (B3J0937-BLK1)

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	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Jordan A. Bynon, Project Manager



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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 B3J0937 - EPA 5030 (soil)

LCS (B3J0937-BS1)

Prepared: 10/10/2023 Analyzed: 10/10/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0903	0.00200	"	0.100		90.3	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0945	0.00200	"	0.100		94.5	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	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 B3J0937 - EPA 5030 (soil)

Matrix Spike (B3J0937-MS1)

Source: Y310231-01

Prepared: 10/10/2023 Analyzed: 10/10/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0876	0.00200	"	0.100	ND	87.6	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.0733	0.00380	"	0.100	ND	73.3	70-130			
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B3J0937 - EPA 5030 (soil)

Matrix Spike Dup (B3J0937-MSD1)

Source: Y310231-01

Prepared: 10/10/2023 Analyzed: 10/10/2023

1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130	3.74	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	3.89	20	
Benzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	0.803	20	
Ethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	4.40	20	
Naphthalene	0.0895	0.00380	"	0.100	ND	89.5	70-130	19.9	20	
Toluene	0.0885	0.00200	"	0.100	ND	88.5	70-130	4.37	20	
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130	3.46	20	
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	3.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jordan A. Bynon, Project Manager



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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 B3J1101 - EPA 3550B

Prepared: 10/11/2023 Analyzed: 10/11/2023

Blank (B3J1101-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		82.9	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 B3J1101 - EPA 3550B

LCS (B3J1101-BS1)

Prepared: 10/11/2023 Analyzed: 10/11/2023

Diesel (C10-C28)	1030	50.0	mg/kg	1000	103	70-130				
Residual Range Organics (C28-C40)	1210	200	"	1000	121	70-130				
Surrogate: o-Terphenyl	41		"	49.8	82.2	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 B3J1101 - EPA 3550B

Matrix Spike (B3J1101-MS1)

Source: Y310237-01

Prepared: 10/11/2023 Analyzed: 10/11/2023

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.2	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 B3J1101 - EPA 3550B

Matrix Spike Dup (B3J1101-MSD1)

Source: Y310237-01

Prepared: 10/11/2023 Analyzed: 10/11/2023

Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	4.38	35	
Residual Range Organics (C28-C40)	1300	200	"	1000	ND	130	70-130	4.93	35	
Surrogate: o-Terphenyl	41		"	49.8		81.5	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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**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 B3J1018 - EPA 3050B**

**Blank (B3J1018-BLK1)**

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3J1018-BS1)**

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	0.0452	0.000100	mg/kg	0.0500		90.4	80-120			
Barium	5.02	0.0100	"	5.00		100	80-120			
Cadmium	0.0508	0.000100	"	0.0500		102	80-120			
Copper	0.538	0.0100	"	0.500		108	80-120			
Lead	0.0494	0.0100	"	0.0500		98.8	80-120			
Nickel	0.0498	0.0100	"	0.0500		99.6	80-120			
Selenium	0.0498	0.000100	"	0.0500		99.6	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.508	0.100	"	0.500		102	80-120			

**Matrix Spike (B3J1018-MS1)**

Source: Y310254-01

Prepared: 10/10/2023 Analyzed: 10/13/2023

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J1018 - EPA 3050B**

**Matrix Spike (B3J1018-MS1)**

**Source: Y310254-01**

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	5.64	0.0927	mg/kg	4.64	1.20	95.7	75-125			
Barium	495	9.27	"	464	57.3	94.5	75-125			
Cadmium	4.69	0.0927	"	4.64	0.0466	100	75-125			
Copper	52.7	9.27	"	46.4	3.08	107	75-125			
Lead	7.24	9.27	"	4.64	11.0	NR	75-125			QM-07
Nickel	6.57	9.27	"	4.64	2.56	86.4	75-125			
Selenium	4.61	0.0927	"	4.64	ND	99.4	75-125			
Silver	4.67	0.0927	"	4.64	0.00373	101	75-125			
Zinc	59.0	92.7	"	46.4	13.5	98.2	75-125			

**Matrix Spike Dup (B3J1018-MSD1)**

**Source: Y310254-01**

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	5.44	0.0935	mg/kg	4.67	1.20	90.7	75-125	3.61	20	
Barium	471	9.35	"	467	57.3	88.5	75-125	5.04	20	
Cadmium	4.42	0.0935	"	4.67	0.0466	93.5	75-125	6.05	20	
Copper	50.0	9.35	"	46.7	3.08	100	75-125	5.12	20	
Lead	12.0	9.35	"	4.67	11.0	20.0	75-125	49.2	20	QM-07
Nickel	6.55	9.35	"	4.67	2.56	85.3	75-125	0.297	20	
Selenium	4.35	0.0935	"	4.67	ND	93.1	75-125	5.79	20	
Silver	4.43	0.0935	"	4.67	0.00373	94.6	75-125	5.36	20	
Zinc	57.9	93.5	"	46.7	13.5	95.2	75-125	1.85	20	

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J0932 - EPA 3580**

**Blank (B3J0932-BLK1)**

Prepared: 10/09/2023 Analyzed: 10/12/2023

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	190		ug/kg	200		95.5	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.6	60-130			

**LCS (B3J0932-BS1)**

Prepared: 10/09/2023 Analyzed: 10/12/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.1	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.6	70-130			
Acenaphthene	0.183	0.020	"	0.200		91.5	70-130			
Anthracene	0.188	0.020	"	0.200		93.9	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J0932 - EPA 3580**

**LCS (B3J0932-BS1)**

Prepared: 10/09/2023 Analyzed: 10/12/2023

Benzo (a) anthracene	0.174	0.005	mg/kg	0.200		86.8	70-130			
Benzo (a) pyrene	0.187	0.020	"	0.200		93.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200		89.2	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (k) fluoranthene	0.191	0.020	"	0.200		95.5	70-130			
Chrysene	0.201	0.020	"	0.200		100	70-130			
Dibenz (a,h) anthracene	0.188	0.020	"	0.200		93.8	70-130			
Fluoranthene	0.190	0.020	"	0.200		94.9	70-130			
Fluorene	0.181	0.020	"	0.200		90.4	70-130			
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200		107	70-130			
Naphthalene	0.188	0.002	"	0.200		94.2	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.3	70-130			
Pyrene	0.193	0.020	"	0.200		96.4	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.9	60-130			

**Matrix Spike (B3J0932-MS1)**

Source: Y310157-01

Prepared: 10/09/2023 Analyzed: 10/12/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.6	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.6	70-130			
Acenaphthene	0.186	0.020	"	0.200	ND	93.2	70-130			
Anthracene	0.182	0.020	"	0.200	0.0004	90.8	70-130			
Benzo (a) anthracene	0.148	0.005	"	0.200	0.0007	73.8	70-130			
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130			
Benzo (b) fluoranthene	0.186	0.020	"	0.200	0.0005	92.8	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	ND	96.5	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J0932 - EPA 3580**

**Matrix Spike (B3J0932-MS1)**

**Source: Y310157-01**

Prepared: 10/09/2023 Analyzed: 10/12/2023

Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	ND	102	70-130			
Chrysene	0.189	0.020	"	0.200	0.0007	94.1	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	ND	92.3	70-130			
Fluoranthene	0.192	0.020	"	0.200	0.0004	95.8	70-130			
Fluorene	0.182	0.020	"	0.200	ND	90.9	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	98.1	70-130			
Naphthalene	0.191	0.002	"	0.200	ND	95.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Pyrene	0.212	0.020	"	0.200	0.0005	106	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike Dup (B3J0932-MSD1)**

**Source: Y310157-01**

Prepared: 10/09/2023 Analyzed: 10/12/2023

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	100	70-130	0.716	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130	0.495	20	
Acenaphthene	0.189	0.020	"	0.200	ND	94.6	70-130	1.42	20	
Anthracene	0.188	0.020	"	0.200	0.0004	93.8	70-130	3.23	20	
Benzo (a) anthracene	0.199	0.005	"	0.200	0.0007	99.2	70-130	29.3	20	QM-07
Benzo (a) pyrene	0.190	0.020	"	0.200	ND	95.0	70-130	5.65	20	
Benzo (b) fluoranthene	0.181	0.020	"	0.200	0.0005	90.2	70-130	2.85	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.0	70-130	1.53	20	
Benzo (k) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.18	20	
Chrysene	0.187	0.020	"	0.200	0.0007	93.2	70-130	0.881	20	
Dibenz (a,h) anthracene	0.186	0.020	"	0.200	ND	92.8	70-130	0.586	20	
Fluoranthene	0.198	0.020	"	0.200	0.0004	98.9	70-130	3.12	20	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J0932 - EPA 3580

Matrix Spike Dup (B3J0932-MSD1)

Source: Y310157-01

Prepared: 10/09/2023 Analyzed: 10/12/2023

Fluorene	0.183	0.020	mg/kg	0.200	ND	91.5	70-130	0.673	20	
Indeno (1,2,3-cd) pyrene	0.172	0.020	"	0.200	ND	86.0	70-130	13.2	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.5	70-130	2.23	20	
Phenanthrene	0.196	0.020	"	0.200	ND	97.8	70-130	2.75	20	
Pyrene	0.192	0.020	"	0.200	0.0005	95.6	70-130	10.0	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.9	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J1013 - Saturated Paste Metals**

**Blank (B3J1013-BLK1)**

Prepared: 10/10/2023 Analyzed: 10/11/2023

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

**Duplicate (B3J1013-DUP1)**

Source: Y310202-01

Prepared: 10/10/2023 Analyzed: 10/11/2023

Calcium PPM	18.2	10.0	mg/L		21.0			14.4	50	
SAR	ND	0.0100	SAR		4.22				200	
Magnesium PPM	5.95	10.0	mg/L		6.53			9.29	50	
Sodium PPM	81.8	10.0	"		86.5			5.61	50	

**Batch B3J1115 - DTPA Sorbitol Preparation**

**Blank (B3J1115-BLK1)**

Prepared: 10/11/2023 Analyzed: 10/12/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3J1115-DUP1)**

Source: Y310195-02

Prepared: 10/11/2023 Analyzed: 10/12/2023

Boron	1.85	0.101	mg/L		1.68			9.90	50	
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 B3J1017 - Saturated Paste pH/EC**

**Blank (B3J1017-BLK1)**

Prepared: 10/10/2023 Analyzed: 10/11/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3J1017-DUP1)**

**Source: Y310202-01**

Prepared: 10/10/2023 Analyzed: 10/11/2023

pH 8.33 pH Units 8.34 0.120 25

Specific Conductance (EC) 0.593 0.00500 mmhos/cm 0.604 1.87 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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Trebor #B11-15

**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 L712444 -

**DUP (L 81680-DUP)**

Source: Y310254-01

Prepared: Analyzed: 10/23/2023

Chromium, Hexavalent ND 0.519 mg/Kg <0.519 - 0 20

**MS (L 81680-MS)**

Source: Y310254-01

Prepared: Analyzed: 10/23/2023

Chromium, Hexavalent 36.7 2.58 mg/Kg 41.3 <1.26 89 75-125

**LCS (LCS)**

Prepared: Analyzed: 10/23/2023

Chromium, Hexavalent 7.11 0.5 mg/Kg 8 89 75-125

**LRB (LRB)**

Prepared: Analyzed: 10/23/2023

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Trebor #B11-15

## Notes and Definitions

- U Sample is Non-Detect.
  - S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
  - 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.

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