



June 07, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UNI - UPR #C25-3

Project Number - [none]

Attached are your analytical results for Noble - UNI - UPR #C25-3 received by Origins Laboratory, Inc. May 25, 2023. This project is associated with Origins project number Y305698-01.

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 - UNI - UPR #C25-3

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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WH-FS-01@6'	Y305698-01	Soil	May 25, 2023 10:14	05/25/2023 15:24
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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 - UNI - UPR #C25-3

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4305618

Client: Eagle Environ

Client Project ID: UNI-UPR #C25-3

Checklist Completed by: TJH/CHS

Shipped Via: HD

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

Date/time completed: 5/20/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.0 °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 < 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):				

<sup>(1)</sup> 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 5/30/23

Origins Laboratory, Inc.

[Signature]

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - UNI - UPR #C25-3

WH-FS-01@6'  
5/25/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305698-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.125	0.0995	mg/L	1	B3E3003	05/30/2023	05/31/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.4 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2638	05/26/2023	05/28/2023	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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WH-FS-01@6'  
5/25/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305698-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3E26 38	05/26/2023	05/28/2023	
Surrogate: Toluene-d8	90.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.571	0.499	meq/L	10	[CALC]	05/30/2023	05/31/2023	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.02	0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684972	05/31/2023	06/02/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000497	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00059	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000982	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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WH-FS-01@6'

5/25/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

Y305698-01 (Soil)

### PAH by 8270D SIM

Fluorene	0.00132	0.000286	0.00067	mg/Kg	1	L684972	05/31/2023	06/02/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.8 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.82	pH Units	1	B3E3007	05/22/2023	05/31/2023
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### SAR by 20B Saturated Paste

SAR	3.07	SAR	1	B3E3005	05/30/2023	05/31/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.337	0.00500	mmhos/cm	1	B3E3007	05/22/2023	05/31/2023
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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 B3E2638 - EPA 5030 (soil)**

**Blank (B3E2638-BLK1)**

Prepared: 05/26/2023 Analyzed: 05/28/2023

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	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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 B3E2638 - EPA 5030 (soil)**

**LCS (B3E2638-BS1)**

Prepared: 05/26/2023 Analyzed: 05/28/2023

1,2,4-Trimethylbenzene	0.0907	0.00200	mg/kg	0.100		90.7	70-130			
1,3,5-Trimethylbenzene	0.0977	0.00200	"	0.100		97.7	70-130			
Benzene	0.0941	0.00200	"	0.100		94.1	70-130			
Ethylbenzene	0.0918	0.00200	"	0.100		91.8	70-130			
Naphthalene	0.0821	0.00380	"	0.100		82.1	70-130			
Toluene	0.0982	0.00200	"	0.100		98.2	70-130			
o-Xylene	0.0915	0.00200	"	0.100		91.5	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.4	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 B3E2638 - EPA 5030 (soil)**

**Matrix Spike (B3E2638-MS1)**

**Source: Y305698-01**

**Prepared: 05/26/2023 Analyzed: 05/28/2023**

1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130
1,3,5-Trimethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130
Benzene	0.0902	0.00200	"	0.100	ND	90.2	70-130
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130
Naphthalene	0.0779	0.00380	"	0.100	ND	77.9	70-130
Toluene	0.100	0.00200	"	0.100	ND	100	70-130
o-Xylene	0.0903	0.00200	"	0.100	ND	90.3	70-130
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.7	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125		94.3	70-130
Surrogate: Toluene-d8	0.13	"	"	0.125		104	70-130
Surrogate: 4-Bromofluorobenzene	0.11	"	"	0.125		85.5	70-130

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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Martin C Eckert III  
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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 B3E2638 - EPA 5030 (soil)

Matrix Spike Dup (B3E2638-MSD1)

Source: Y305698-01

Prepared: 05/26/2023 Analyzed: 05/28/2023

1,2,4-Trimethylbenzene	0.0837	0.00200	mg/kg	0.100	ND	83.7	70-130	7.72	20	
1,3,5-Trimethylbenzene	0.0908	0.00200	"	0.100	ND	90.8	70-130	8.80	20	
Benzene	0.0898	0.00200	"	0.100	ND	89.8	70-130	0.356	20	
Ethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130	10.7	20	
Naphthalene	0.0916	0.00380	"	0.100	ND	91.6	70-130	16.1	20	
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130	6.29	20	
o-Xylene	0.0844	0.00200	"	0.100	ND	84.4	70-130	6.69	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.2	70-130	11.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.7	70-130			

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Project: Noble - UNI - UPR #C25-3

**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 B3E3019 - EPA 3550B

Blank (B3E3019-BLK1)

Prepared: 05/30/2023 Analyzed: 06/02/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		75.6	50-150			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - UNI - UPR #C25-3

**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 B3E3019 - EPA 3550B

**LCS (B3E3019-BS1)**

Prepared: 05/30/2023 Analyzed: 06/02/2023

Diesel (C10-C28)	849	50.0	mg/kg	1000		84.9	70-130			
Residual Range Organics (C28-C40)	858	200	"	1000		85.8	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.0	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 B3E3019 - EPA 3550B

Matrix Spike (B3E3019-MS1)

Source: Y305697-01

Prepared: 05/30/2023 Analyzed: 06/02/2023

Diesel (C10-C28)	887	50.0	mg/kg	1000	ND	88.7	70-130
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130
Surrogate: o-Terphenyl	41		"	49.8		82.6	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 B3E3019 - EPA 3550B**

**Matrix Spike Dup (B3E3019-MSD1)**

**Source: Y305697-01**

Prepared: 05/30/2023 Analyzed: 06/02/2023

Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130	2.83	35	
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130	1.17	35	
Surrogate: o-Terphenyl	44		"	49.8		87.5	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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## 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 B3E3003 - DTPA Sorbitol Preparation

#### Blank (B3E3003-BLK1)

Prepared: 05/30/2023 Analyzed: 05/31/2023

Boron ND 0.100 mg/L

#### Duplicate (B3E3003-DUP1)

Source: Y305694-01

Prepared: 05/30/2023 Analyzed: 05/31/2023

Boron 0.634 0.0985 mg/L 0.490 25.6 50

### Batch B3E3005 - Saturated Paste Metals

#### Blank (B3E3005-BLK1)

Prepared: 05/30/2023 Analyzed: 05/31/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

#### Duplicate (B3E3005-DUP1)

Source: Y305694-01

Prepared: 05/30/2023 Analyzed: 05/31/2023

Calcium PPM 156 10.0 mg/L 169 7.95 50

SAR 0.00 SAR 0.972 200 200

Magnesium PPM 165 10.0 mg/L 148 11.3 50

Sodium PPM 73.9 10.0 " 71.7 3.08 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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - UNI - UPR #C25-3

**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 B3E3007 - Saturated Paste pH/EC**

**Blank (B3E3007-BLK1)**

Prepared: 05/30/2023 Analyzed: 05/31/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3E3007-DUP1)**

**Source: Y305694-01**

Prepared: 05/30/2023 Analyzed: 05/31/2023

pH	7.92		pH Units	7.92		0.00	25
Specific Conductance (EC)	2.82	0.00500	mmhos/cm	2.57		9.12	25

Origins Laboratory, Inc.

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Martin C Eckert III  
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Project: Noble - UNI - UPR #C25-3

## PAH by 8270D SIM - 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 L684972 - 3550B

#### MSD (L 81225-MSD-L684972)

Source: 81225

Prepared: 05/31/2023 Analyzed: 06/02/2023

Dibenz(a,h)anthracene	0.122	0.00067	mg/Kg	0.166	<0.000614	73.4	30-130	1.6	30	
Indeno(1,2,3-cd)pyrene	0.0912	0.00067	"	0.166	<0.000627	54.9	30-130	10.1	30	
1-Methylnaphthalene	0.101	0.00201	"	0.166	<0.00109	60.8	30-130	12.8	30	
Fluorene	0.112	0.00067	"	0.166	<0.000286	67.4	30-130	13.2	30	
Fluoranthene	0.115	0.00067	"	0.166	<0.000394	69.2	30-130	10	30	
2-Methylnaphthalene	0.101	0.00201	"	0.166	<0.00194	60.8	30-130	12.4	30	
Acenaphthene	0.108	0.00067	"	0.166	<0.000304	65	30-130	13.5	30	
Anthracene	0.117	0.00067	"	0.166	<0.000334	70.4	30-130	13.6	30	
Benzo(a)anthracene	0.107	0.00067	"	0.166	<0.000493	64.4	30-130	12.7	30	
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130	15.2	30	
Benzo(b)fluoranthene	0.078	0.00067	"	0.166	<0.000585	46.9	30-130	20	30	
Benzo(k)fluoranthene	0.0914	0.00067	"	0.166	<0.000437	55	30-130	2.9	30	
Chrysene	0.112	0.00067	"	0.166	<0.000624	67.4	30-130	13.8	30	
Pyrene	0.115	0.00067	"	0.166	<0.000643	69.2	30-130	8.1	30	
Surrogate: Nitrobenzene-d5	54.6	"	"	0.331	185	54.6	29-110			
Surrogate: 2-Fluorobiphenyl	61	"	"	0.331	202	61	33-115			
Surrogate: 4-Terphenyl-d14	67.6	"	"	0.331	215	67.6	33-122			

#### MS (L 81225-MS-L684972)

Source: 81225

Prepared: 05/31/2023 Analyzed: 06/02/2023

Indeno(1,2,3-cd)pyrene	0.101	0.00067	mg/Kg	0.164	<0.000627	61.5	30-130			
Chrysene	0.0975	0.00067	"	0.164	<0.000624	59.4	30-130			
Benzo(b)fluoranthene	0.0954	0.00067	"	0.164	<0.000585	58.1	30-130			
Fluorene	0.0981	0.00067	"	0.164	<0.000286	59.8	30-130			
Benzo(k)fluoranthene	0.0887	0.00067	"	0.164	<0.000437	54	30-130			
Pyrene	0.106	0.00067	"	0.164	<0.000643	64.6	30-130			
Fluoranthene	0.104	0.00067	"	0.164	<0.000394	63.4	30-130			
1-Methylnaphthalene	0.0888	0.00201	"	0.164	<0.00109	54.1	30-130			

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Martin C Eckert III  
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Project: Noble - UNI - UPR #C25-3

## PAH by 8270D SIM - 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 L684972 - 3550B

### MS (L 81225-MS-L684972)

Source: 81225

Prepared: 05/31/2023 Analyzed: 06/02/2023

Benzo(a)anthracene	0.0942	0.00067	mg/Kg	0.164	<0.000493	57.4	30-130
Anthracene	0.102	0.00067	"	0.164	<0.000334	62.1	30-130
Acenaphthene	0.0943	0.00067	"	0.164	<0.000304	57.5	30-130
2-Methylnaphthalene	0.0892	0.00201	"	0.164	<0.00194	54.3	30-130
Benzo(a)pyrene	0.103	0.00067	"	0.164	<0.000468	62.8	30-130
Dibenz(a,h)anthracene	0.124	0.00067	"	0.164	<0.000614	75.6	30-130
Surrogate: Nitrobenzene-d5	47.4		"	0.329	185	47.4	29-110
Surrogate: 4-Terphenyl-d14	60.4		"	0.329	215	60.4	33-122
Surrogate: 2-Fluorobiphenyl	53.1		"	0.329	202	53.1	33-115

### LCS (LCS-L684972)

Prepared: 05/31/2023 Analyzed: 06/02/2023

Benzo(k)fluoranthene	0.118	0.00067	mg/Kg	0.167		70.6	30-130
Chrysene	0.116	0.00067	"	0.167		69.4	30-130
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130
Indeno(1,2,3-cd)pyrene	0.0839	0.00067	"	0.167		50.2	30-130
Benzo(b)fluoranthene	0.101	0.00067	"	0.167		60.4	30-130
Pyrene	0.121	0.00067	"	0.167		72.4	30-130
Dibenz(a,h)anthracene	0.12	0.00067	"	0.167		71.8	30-130
1-Methylnaphthalene	0.0992	0.00201	"	0.167		59.4	30-130
Benzo(a)anthracene	0.11	0.00067	"	0.167		65.8	30-130
Anthracene	0.123	0.00067	"	0.167		73.6	30-130
Acenaphthene	0.105	0.00067	"	0.167		62.8	30-130
2-Methylnaphthalene	0.1	0.00201	"	0.167		59.8	30-130
Fluorene	0.111	0.00067	"	0.167		66.4	30-130
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - UNI - UPR #C25-3

## PAH by 8270D SIM - 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 L684972 - 3550B

### LCS (LCS-L684972)

Prepared: 05/31/2023 Analyzed: 06/02/2023

Surrogate: 2-Fluorobiphenyl	64.5	mg/Kg	0.333	64.5	33-115
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### LRB (LRB-L684972)

Prepared: 05/31/2023 Analyzed: 06/02/2023

Chrysene	ND	0.00067	mg/Kg	-	-
Dibenz(a,h)anthracene	ND	0.00067	"	-	-
Fluoranthene	ND	0.00067	"	-	-
Fluorene	ND	0.00067	"	-	-
Benzo(k)fluoranthene	ND	0.00067	"	-	-
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	-	-
Benzo(b)fluoranthene	ND	0.00067	"	-	-
Benzo(a)pyrene	ND	0.00067	"	-	-
Benzo(a)anthracene	ND	0.00067	"	-	-
Acenaphthene	ND	0.00067	"	-	-
2-Methylnaphthalene	ND	0.00201	"	-	-
1-Methylnaphthalene	ND	0.00201	"	-	-
Pyrene	ND	0.00067	"	-	-
Anthracene	ND	0.00067	"	-	-
Surrogate: Nitrobenzene-d5	56.7	"	0.333	56.7	29-110
Surrogate: 4-Terphenyl-d14	66.3	"	0.333	66.3	33-122
Surrogate: 2-Fluorobiphenyl	59.4	"	0.333	59.4	33-115

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - UNI - UPR #C25-3

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

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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