



February 14, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Laurice #6-1

Project Number - [none]

Attached are your analytical results for Noble - HSR - Laurice #6-1 received by Origins Laboratory, Inc. February 07, 2023. This project is associated with Origins project number Y302121-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y302121-01	Soil	February 7, 2023 9:12	02/07/2023 14:15

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS

LABORATORY, INC

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - HSR - Laurice #6-1

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4302121

Client: Eagle

Client Project ID: Laurice #6-1

Checklist Completed by: EHS/DC

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

Date/time completed: 2/7/23

Airbill #: NA

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1 / 5.2 °C

°C / °C / °C (Describe)

Thermometer ID: TOG4

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 2/7/23

Origins Laboratory, Inc.

J. Bynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

WH-FS-01@6'
2/7/2023 9:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302121-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.205	0.0998	mg/L	1	B3B0803	02/08/2023	02/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0801	02/08/2023	02/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.0 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0814	02/08/2023	02/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"	"	"	"
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Project: Noble - HSR - Laurice #6-1

WH-FS-01@6'
2/7/2023 9:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302121-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %		70-130			B3B08 14	02/08/2023	02/08/2023	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.30		0.499	meq/L	10	[CALC]	02/08/2023	02/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.63		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L663152	02/13/2023	02/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000712	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000453	0.000437	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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2/7/2023 9:12:00AM

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

Y302121-01 (Soil)

PAH by 8270D SIM

Fluorene	0.000324	0.000286	0.00067	mg/Kg	1	L663152	02/13/2023	02/13/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.9 %	33-115	"	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	61.7 %	33-122	"	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	52 %	29-110	"	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.95	pH Units	1	B3B0809	02/08/2023	02/09/2023
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SAR by 20B Saturated Paste

SAR	2.92	SAR	1	B3B0805	02/08/2023	02/09/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.770	0.00500 mmhos/cm	1	B3B0809	02/08/2023	02/09/2023
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Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

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 B3B0801 - EPA 3580

Blank (B3B0801-BLK1)

Prepared: 02/08/2023 Analyzed: 02/08/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	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 B3B0801 - EPA 3580

LCS (B3B0801-BS1)

Prepared: 02/08/2023 Analyzed: 02/08/2023

Diesel (C10-C28)	994	50.0	mg/kg	1000		99.4	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	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 B3B0801 - EPA 3580

Matrix Spike (B3B0801-MS1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/08/2023

Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130
Residual Range Organics (C28-C40)	1300	200	"	1000	ND	130	70-130
Surrogate: o-Terphenyl	59		"	49.8		119	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 B3B0801 - EPA 3580

Matrix Spike Dup (B3B0801-MSD1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/08/2023

Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	6.67	35	
Residual Range Organics (C28-C40)	1180	200	"	1000	ND	118	70-130	9.83	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 B3B0814 - EPA 5030 (soil)

Blank (B3B0814-BLK1)

Prepared: 02/08/2023 Analyzed: 02/08/2023

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		100	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 B3B0814 - EPA 5030 (soil)

LCS (B3B0814-BS1)

Prepared: 02/08/2023 Analyzed: 02/08/2023

1,2,4-Trimethylbenzene	0.0905	0.00200	mg/kg	0.100		90.5	70-130			
1,3,5-Trimethylbenzene	0.0935	0.00200	"	0.100		93.5	70-130			
Benzene	0.0934	0.00200	"	0.100		93.4	70-130			
Ethylbenzene	0.0927	0.00200	"	0.100		92.7	70-130			
Naphthalene	0.0911	0.00380	"	0.100		91.1	70-130			
Toluene	0.0971	0.00200	"	0.100		97.1	70-130			
o-Xylene	0.0868	0.00200	"	0.100		86.8	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	70-130			

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Project: Noble - HSR - Laurice #6-1

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 B3B0814 - EPA 5030 (soil)

Matrix Spike (B3B0814-MS1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/08/2023

1,2,4-Trimethylbenzene	0.0541	0.00200	mg/kg	0.0500	ND	108	70-130
1,3,5-Trimethylbenzene	0.0542	0.00200	"	0.0500	ND	108	70-130
Benzene	0.0636	0.00200	"	0.0500	ND	127	70-130
Ethylbenzene	0.0560	0.00200	"	0.0500	ND	112	70-130
Naphthalene	0.0598	0.00380	"	0.0500	ND	120	70-130
Toluene	0.0581	0.00200	"	0.0500	ND	116	70-130
o-Xylene	0.0494	0.00200	"	0.0500	ND	98.8	70-130
m,p-Xylene	0.105	0.00400	"	0.100	ND	105	70-130
Surrogate: 1,2-Dichloroethane-d4	0.14	"	"	0.125		111	70-130
Surrogate: Toluene-d8	0.12	"	"	0.125		96.6	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		96.5	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 B3B0814 - EPA 5030 (soil)

Matrix Spike Dup (B3B0814-MSD1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/08/2023

1,2,4-Trimethylbenzene	0.0656	0.00200	mg/kg	0.0500	ND	131	70-130	19.3	20	QM-07
1,3,5-Trimethylbenzene	0.0649	0.00200	"	0.0500	ND	130	70-130	17.9	20	
Benzene	0.0761	0.00200	"	0.0500	ND	152	70-130	18.0	20	QM-07
Ethylbenzene	0.0677	0.00200	"	0.0500	ND	135	70-130	19.0	20	QM-07
Naphthalene	0.0760	0.00380	"	0.0500	ND	152	70-130	24.0	20	QM-07
Toluene	0.0689	0.00200	"	0.0500	ND	138	70-130	17.0	20	QM-07
o-Xylene	0.0599	0.00200	"	0.0500	ND	120	70-130	19.3	20	
m,p-Xylene	0.128	0.00400	"	0.100	ND	128	70-130	19.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.14	"	"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11	"	"	0.125		90.0	70-130			

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Project: Noble - HSR - Laurice #6-1

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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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 B3B0803 - DTPA Sorbitol Preparation

Blank (B3B0803-BLK1)

Prepared: 02/08/2023 Analyzed: 02/09/2023

Boron ND 0.100 mg/L

Duplicate (B3B0803-DUP1)

Source: Y302112-01

Prepared: 02/08/2023 Analyzed: 02/09/2023

Boron ND 0.994 mg/L

ND

50

Batch B3B0805 - Saturated Paste Metals

Blank (B3B0805-BLK1)

Prepared: 02/08/2023 Analyzed: 02/09/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3B0805-DUP1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/09/2023

Calcium PPM 47.3 10.0 mg/L

46.1

2.54

50

SAR 0.00 SAR

2.92

200

200

Magnesium PPM 10.1 10.0 mg/L

9.65

4.66

50

Sodium PPM 85.5 10.0 "

83.5

2.31

50

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Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

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 B3B0809 - Saturated Paste pH/EC

Blank (B3B0809-BLK1)

Prepared: 02/08/2023 Analyzed: 02/09/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3B0809-DUP1)

Source: Y302121-01

Prepared: 02/08/2023 Analyzed: 02/09/2023

Specific Conductance (EC)	0.813	0.00500	mmhos/cm	0.770	5.45	25
pH	8.03		pH Units	7.95	1.00	25

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

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 L663152 - 3550B

MSD (L 84006-MSD-L663152)

Source: Y302121-01

Prepared: 02/13/2023 Analyzed: 02/13/2023

2-Methylnaphthalene	0.0965	0.00201	mg/Kg	0.163	<0.00194	59.2	30-130	6	30	
Fluorene	0.109	0.00067	"	0.163	0.000324	66.6	30-130	5.6	30	
Pyrene	0.108	0.00067	"	0.163	<0.000643	66.2	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.0723	0.00067	"	0.163	<0.000627	44.3	30-130	1.6	30	
Fluoranthene	0.117	0.00067	"	0.163	<0.000394	71.7	30-130	2.5	30	
Dibenz(a,h)anthracene	0.0953	0.00067	"	0.163	<0.000614	58.4	30-130	3.5	30	
Chrysene	0.115	0.00067	"	0.163	<0.000624	70.5	30-130	1.7	30	
Naphthalene	0.0933	0.00201	"	0.163	<0.00145	57.2	30-130	4.8	30	
1-Methylnaphthalene	0.0965	0.00201	"	0.163	<0.00109	59.2	30-130	5.7	30	
Benzo(k)fluoranthene	0.0652	0.00067	"	0.163	0.000453	39.7	30-130	1.2	30	
Acenaphthene	0.102	0.00067	"	0.163	<0.000304	62.5	30-130	4.3	30	
Anthracene	0.109	0.00067	"	0.163	<0.000334	66.8	30-130	0	30	
Benzo(a)anthracene	0.115	0.00067	"	0.163	<0.000493	70.5	30-130	0.8	30	
Benzo(a)pyrene	0.112	0.00067	"	0.163	<0.000468	68.7	30-130	1.8	30	
Benzo(b)fluoranthene	0.0874	0.00067	"	0.163	0.000712	53.1	30-130	3.4	30	
Surrogate: 2-Fluorobiphenyl	56.1		"	0.326	174	56.1	33-115			
Surrogate: Nitrobenzene-d5	59.5		"	0.326	171	59.5	29-110			
Surrogate: 4-Terphenyl-d14	63.4		"	0.326	203	63.4	33-122			

MS (L 84006-MS-L663152)

Source: Y302121-01

Prepared: 02/13/2023 Analyzed: 02/13/2023

Benzo(k)fluoranthene	0.066	0.00067	mg/Kg	0.167	0.000453	39.2	30-130			
Acenaphthene	0.0977	0.00067	"	0.167	<0.000304	58.5	30-130			
Naphthalene	0.0889	0.00201	"	0.167	<0.00145	53.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0711	0.00067	"	0.167	<0.000627	42.5	30-130			
Fluorene	0.103	0.00067	"	0.167	0.000324	61.4	30-130			
Fluoranthene	0.114	0.00067	"	0.167	<0.000394	68.2	30-130			
Dibenz(a,h)anthracene	0.092	0.00067	"	0.167	<0.000614	55	30-130			

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

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 L663152 - 3550B

MS (L 84006-MS-L663152)

Source: Y302121-01

Prepared: 02/13/2023 Analyzed: 02/13/2023

Chrysene	0.113	0.00067	mg/Kg	0.167	<0.000624	67.6	30-130
1-Methylnaphthalene	0.0911	0.00201	"	0.167	<0.00109	54.5	30-130
Benzo(a)pyrene	0.11	0.00067	"	0.167	<0.000468	65.8	30-130
Anthracene	0.109	0.00067	"	0.167	<0.000334	65.2	30-130
Pyrene	0.109	0.00067	"	0.167	<0.000643	65.2	30-130
2-Methylnaphthalene	0.0908	0.00201	"	0.167	<0.00194	54.3	30-130
Benzo(b)fluoranthene	0.0905	0.00067	"	0.167	0.000712	53.7	30-130
Benzo(a)anthracene	0.114	0.00067	"	0.167	<0.000493	68.2	30-130
Surrogate: Nitrobenzene-d5	53.4		"	0.333	171	53.4	29-110
Surrogate: 4-Terphenyl-d14	59.4		"	0.333	203	59.4	33-122
Surrogate: 2-Fluorobiphenyl	51.3		"	0.333	174	51.3	33-115

LCS (LCS-L663152)

Prepared: 02/13/2023 Analyzed: 02/13/2023

Chrysene	0.122	0.00067	mg/Kg	0.167		73	30-130
Dibenz(a,h)anthracene	0.103	0.00067	"	0.167		61.6	30-130
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130
Fluorene	0.111	0.00067	"	0.167		66.4	30-130
Indeno(1,2,3-cd)pyrene	0.0739	0.00067	"	0.167		44.2	30-130
Naphthalene	0.0952	0.00201	"	0.167		57	30-130
Benzo(k)fluoranthene	0.0826	0.00067	"	0.167		49.4	30-130
Pyrene	0.119	0.00067	"	0.167		71.2	30-130
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130
Benzo(a)anthracene	0.122	0.00067	"	0.167		73	30-130
Anthracene	0.122	0.00067	"	0.167		73	30-130
Acenaphthene	0.103	0.00067	"	0.167		61.6	30-130
2-Methylnaphthalene	0.0973	0.00201	"	0.167		58.2	30-130
1-Methylnaphthalene	0.0986	0.00201	"	0.167		59	30-130

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Laurice #6-1

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 L663152 - 3550B

LCS (LCS-L663152)

Prepared: 02/13/2023 Analyzed: 02/13/2023

Benzo(b)fluoranthene	0.0841	0.00067	mg/Kg	0.167		50.3	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333		68.7	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

LRB (LRB-L663152)

Prepared: 02/13/2023 Analyzed: 02/13/2023

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	"							
Naphthalene	ND	0.00201	"							
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	56.4		"	0.333		56.4	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - HSR - Laurice #6-1

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.

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.

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Jordan A. Bynon For Jen Pellegrini, Project Manager