



May 16, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Cutler #14-31

Project Number - [none]

Attached are your analytical results for Noble - HSR - Cutler #14-31 received by Origins Laboratory, Inc. April 19, 2023. This project is associated with Origins project number - Y304456-01.

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 - HSR - Cutler #14-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y304456-01	Soil	April 19, 2023 13:48	04/19/2023 15:33
WH-SS-02@5'	Y304456-02	Soil	April 19, 2023 13:50	04/19/2023 15:33
WH-SS-03@5'	Y304456-03	Soil	April 19, 2023 13:52	04/19/2023 15:33
WH-SS-04@5'	Y304456-04	Soil	April 19, 2023 13:54	04/19/2023 15:33
WH-FS-01@6'	Y304456-05	Soil	April 19, 2023 13:56	04/19/2023 15:33

A pH rerun was requested on WH-SS-02@5' per Grace's email on 05/01/2023. No errors were found in the original data, all three results are reported. JAB

Chain of Custody Modification Request

On 5/10/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y304456 requesting that Table 915 Metals be added to WH-FS-01@6'.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/10/2023.

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: B041456

Client: Eagle Environ

Client Project ID: HSR - CUTLER #14-31

Checklist Completed by: JEP/CE

Shipped Via: HLB

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

Date/time completed: 4/26/23

Airbill #: N/A

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

☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1/23 °C

1 °C

1 °C

(Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C?	<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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - Is there headspace (> 1/4 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? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subsampled 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):				

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: 4/26/23

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-01@5'
4/19/2023 1:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.242	0.101	mg/L	1	B3D2512	04/25/2023	04/26/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.1	25.0	mg/kg	1	B3D2033	04/20/2023	04/21/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	U

Surrogate: o-Terphenyl	98.2 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2026	04/20/2023	04/21/2023	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	122 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	92.7 %	70-130	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-01@5'
4/19/2023 1:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	93.4 %	70-130	B3D20 26	04/20/2023	04/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	4.05	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	1.58	0.823	"	"	"	"	"
Sodium	4.59	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

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Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-01@5'
4/19/2023 1:48:00PM

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

Y304456-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.5 %		33-115	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	55.2 %		33-122	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	45.7 %		29-110	"	"	"	"	"	

pH in Soil by 9045D

pH	7.79			pH Units	1	B3D2518	04/25/2023	04/26/2023	
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SAR by 20B Saturated Paste

SAR	2.74			SAR	1	B3D2508	04/25/2023	04/26/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17		0.00500	mmhos/cm	1	B3D2518	04/25/2023	04/26/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-02@5'
4/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.214	0.0991	mg/L	1	B3D2512	04/25/2023	04/26/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2033	04/20/2023	04/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.9 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2026	04/20/2023	04/21/2023	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	122 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-02@5'
4/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y304456-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.3 %	70-130	B3D20 26	04/20/2023	04/21/2023
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.72	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
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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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-02@5'
4/19/2023 1:50:00PM

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

Y304456-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023	
Indeno(1,2,3-cd)pyrene	0.000791	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.2 %	33-115	"	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	58.2 %	33-122	"	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	50.2 %	29-110	"	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.36	pH Units	1	B3D2518	04/25/2023	04/26/2023	
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SAR by 20B Saturated Paste

SAR	1.95	SAR	1	B3D2508	04/25/2023	04/26/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.612	0.00500 mmhos/cm	1	B3D2518	04/25/2023	04/26/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-02@5'
4/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-02RE1 (Soil)

pH in Soil by 9045D

pH	8.46	pH Units	1	B3E0312	04/25/2023	05/04/2023
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Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-02@5'
4/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-02RE2 (Soil)

pH in Soil by 9045D

pH	8.41	pH Units	1	B3E0312	04/25/2023	05/04/2023
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-03@5'
4/19/2023 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.225	0.101	mg/L	1	B3D2512	04/25/2023	04/26/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2033	04/20/2023	04/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2026	04/20/2023	04/21/2023	U
1,3,5-Trimethylbenzene	0.00268	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	0.298	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	90.9 %	70-130	"	"	"	"	"

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-03@5'
4/19/2023 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	B3D20 26	04/20/2023	04/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.68	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.88	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000536	0.000286	0.00067	"	"	"	"	"

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Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-03@5'
4/19/2023 1:52:00PM

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

Y304456-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.8 %		33-115	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	61 %		33-122	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	52.6 %		29-110	"	"	"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B3D2519	04/25/2023	04/26/2023	
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SAR by 20B Saturated Paste

SAR	2.93			SAR	1	B3D2509	04/25/2023	04/26/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.831		0.00500	mmhos/cm	1	B3D2519	04/25/2023	04/26/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-SS-04@5'
4/19/2023 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-04 (Soil)

Boron (DTPA Sorbitol)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron	0.135	0.101		mg/L	1	B3D2613	04/26/2023	04/27/2023	

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND	25.0		mg/kg	1	B3D2033	04/20/2023	04/21/2023	U
Residual Range Organics (C28-C40)	ND	100		"	"	"	"	"	U

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Surrogate: o-Terphenyl	99.9 %	50-150		"	"	"	"	"	"

GBTEX+TMBs by 8260D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1,2,4-Trimethylbenzene	ND	0.00200		mg/kg	1	B3D2026	04/20/2023	04/21/2023	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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	124 %	70-130		"	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For 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 - HSR - Cutler #14-31

WH-SS-04@5'
4/19/2023 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y304456-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.4 %	70-130	B3D20 26	04/20/2023	04/21/2023
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.26	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.44	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For 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 - HSR - Cutler #14-31

WH-SS-04@5'
4/19/2023 1:54:00PM

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

Y304456-04 (Soil)

PAH by 8270D SIM

Fluorene	0.000472	0.000286	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000726	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.7 %	33-115	"	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	58.7 %	33-122	"	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	50.5 %	29-110	"	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B3D2519	04/25/2023	04/26/2023
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SAR by 20B Saturated Paste

SAR	1.60	SAR	1	B3D2509	04/25/2023	04/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.373	0.00500 mmhos/cm	1	B3D2519	04/25/2023	04/26/2023
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.277	0.0989	mg/L	1	B3D2613	04/26/2023	04/27/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2033	04/20/2023	04/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2026	04/20/2023	04/21/2023	U
1,3,5-Trimethylbenzene	0.0183	0.00200	"	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00374	0.00200	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	92.6 %	70-130	"	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For 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 - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.2 %	70-130	B3D20 26	04/20/2023	04/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.86	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.39	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00064	0.000624	0.00067	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000556	0.000394	0.00067	"	"	"	"	J
Fluorene	0.0024	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.

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Jen Pellegrini For 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 - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

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

Y304456-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0025	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.4 %		33-175	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	63.7 %		33-122	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	52 %		29-110	"	"	"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B3D2519	04/25/2023	04/26/2023	
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SAR by 20B Saturated Paste

SAR	2.60			SAR	1	B3D2509	04/25/2023	04/26/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.884		0.00500	mmhos/cm	1	B3D2519	04/25/2023	04/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.29		0.0834	mg/kg	10	B3E1104	05/11/2023	05/12/2023	
Barium	58.3		8.34	"	"	"	"	"	

Origins Laboratory, Inc.

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Jen Pellegrini For 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 - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.151	0.0834	mg/kg	10	B3E1104	05/11/2023	05/12/2023
Copper	ND	8.34	"	"	"	"	U
Lead	12.1	8.34	"	"	"	"	"
Nickel	ND	8.34	"	"	"	"	U
Selenium	0.144	0.0834	"	"	"	"	"
Silver	ND	0.0834	"	"	"	"	U
Zinc	ND	83.4	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L681381	04/19/2023	05/11/2023
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Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-05RE1 (Soil)

pH in Soil by 9045D

pH	8.34	pH Units	1	B3E0312	04/25/2023	05/04/2023
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Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

WH-FS-01@6'
4/19/2023 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304456-05RE2 (Soil)

pH in Soil by 9045D

pH	8.29	pH Units	1	B3E0312	04/25/2023	05/04/2023
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Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2026 - EPA 5030 (soil)

Blank (B3D2026-BLK1)

Prepared: 04/20/2023 Analyzed: 04/21/2023

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	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2026 - EPA 5030 (soil)

LCS (B3D2026-BS1)

Prepared: 04/20/2023 Analyzed: 04/21/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Benzene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Naphthalene	0.0994	0.00380	"	0.100		99.4	70-130			
Toluene	0.0913	0.00200	"	0.100		91.3	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2026 - EPA 5030 (soil)

Matrix Spike (B3D2026-MS1)

Source: Y304456-01

Prepared: 04/20/2023 Analyzed: 04/21/2023

1,2,4-Trimethylbenzene	0.0841	0.00200	mg/kg	0.100	ND	84.1	70-130			
1,3,5-Trimethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
Benzene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Ethylbenzene	0.0820	0.00200	"	0.100	ND	82.0	70-130			
Naphthalene	0.0821	0.00380	"	0.100	ND	82.1	70-130			
Toluene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
o-Xylene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14	"	"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		99.7	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2026 - EPA 5030 (soil)

Matrix Spike Dup (B3D2026-MSD1)

Source: Y304456-01

Prepared: 04/20/2023 Analyzed: 04/21/2023

1,2,4-Trimethylbenzene	0.0781	0.00200	mg/kg	0.100	ND	78.1	70-130	7.33	20	
1,3,5-Trimethylbenzene	0.0738	0.00200	"	0.100	ND	73.8	70-130	6.60	20	
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130	1.78	20	
Ethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	6.34	20	
Naphthalene	0.0780	0.00380	"	0.100	ND	78.0	70-130	5.22	20	
Toluene	0.0770	0.00200	"	0.100	ND	77.0	70-130	3.50	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	5.48	20	
m,p-Xylene	0.157	0.00400	"	0.200	ND	78.6	70-130	6.43	20	
Surrogate: 1,2-Dichloroethane-d4	0.14	"	"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		98.7	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2033 - EPA 3550B

Blank (B3D2033-BLK1)

Prepared: 04/20/2023 Analyzed: 04/21/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		113	50-150			

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2033 - EPA 3550B

LCS (B3D2033-BS1)

Prepared: 04/20/2023 Analyzed: 04/21/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2033 - EPA 3550B

Matrix Spike (B3D2033-MS1)

Source: Y304427-01

Prepared: 04/20/2023 Analyzed: 04/21/2023

Diesel (C10-C28)	1130	50.0	mg/kg	1000	97.7	103	70-130
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130
Surrogate: o-Terphenyl	47		"	49.8	94.7		50-150

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2033 - EPA 3550B

Matrix Spike Dup (B3D2033-MSD1)

Source: Y304427-01

Prepared: 04/20/2023 Analyzed: 04/21/2023

Diesel (C10-C28)	1160	50.0	mg/kg	1000	97.7	106	70-130	2.63	35	
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130	2.03	35	
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3E1104 - EPA 3050B

Blank (B3E1104-BLK1)

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

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

LCS (B3E1104-BS1)

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

Arsenic	0.0543	0.000100	mg/kg	0.0500		109	80-120
Barium	5.13	0.0100	"	5.00		103	80-120
Cadmium	0.0543	0.000100	"	0.0500		109	80-120
Copper	0.569	0.0100	"	0.500		114	80-120
Lead	0.0504	0.0100	"	0.0500		101	80-120
Nickel	0.0518	0.0100	"	0.0500		104	80-120
Selenium	0.0532	0.000100	"	0.0500		106	80-120
Silver	0.0541	0.000100	"	0.0500		108	80-120
Zinc	0.516	0.100	"	0.500		103	80-120

Matrix Spike (B3E1104-MS1)

Source: Y305254-01

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

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3E1104 - EPA 3050B

Matrix Spike (B3E1104-MS1)

Source: Y305254-01

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

Arsenic	8.07	0.0930	mg/kg	4.65	2.40	122	75-125			
Barium	463	9.30	"	465	30.0	93.2	75-125			
Cadmium	5.75	0.0930	"	4.65	0.655	110	75-125			
Copper	54.8	9.30	"	46.5	6.01	105	75-125			
Lead	13.8	9.30	"	4.65	8.20	121	75-125			
Nickel	9.77	9.30	"	4.65	4.01	124	75-125			
Selenium	5.55	0.0930	"	4.65	0.102	117	75-125			
Silver	5.06	0.0930	"	4.65	0.0358	108	75-125			
Zinc	78.4	93.0	"	46.5	29.2	106	75-125			U

Matrix Spike Dup (B3E1104-MSD1)

Source: Y305254-01

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

Arsenic	7.55	0.0918	mg/kg	4.59	2.40	112	75-125	6.73	20	
Barium	465	9.18	"	459	30.0	94.9	75-125	0.548	20	
Cadmium	5.63	0.0918	"	4.59	0.655	108	75-125	2.15	20	
Copper	56.0	9.18	"	45.9	6.01	109	75-125	2.12	20	
Lead	13.4	9.18	"	4.59	8.20	114	75-125	2.82	20	
Nickel	9.75	9.18	"	4.59	4.01	125	75-125	0.159	20	
Selenium	5.11	0.0918	"	4.59	0.102	109	75-125	8.22	20	
Silver	5.07	0.0918	"	4.59	0.0358	110	75-125	0.185	20	
Zinc	78.2	91.8	"	45.9	29.2	107	75-125	0.280	20	U

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2508 - Saturated Paste Metals

Blank (B3D2508-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3D2508-DUP1)

Source: Y304451-05

Prepared: 04/25/2023 Analyzed: 04/26/2023

Calcium PPM	159	10.0	mg/L		222		32.6	50		
SAR	0.00		SAR		1.41		200	200		U
Magnesium PPM	151	10.0	mg/L		183		19.3	50		
Sodium PPM	104	10.0	"		117		11.9	50		

Batch B3D2509 - Saturated Paste Metals

Blank (B3D2509-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3D2509-DUP1)

Source: Y304456-03

Prepared: 04/25/2023 Analyzed: 04/26/2023

SAR	0.00		SAR		2.93		200	200		U
Calcium PPM	48.6	10.0	mg/L		53.8		10.2	50		
Magnesium PPM	8.98	10.0	"		9.93		10.0	50		U
Sodium PPM	79.4	10.0	"		89.1		11.5	50		

Batch B3D2512 - DTPA Sorbitol Preparation

Blank (B3D2512-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Origins Laboratory, Inc.

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Jen Pellegrini For 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 - HSR - Cutler #14-31

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 B3D2512 - DTPA Sorbitol Preparation

Blank (B3D2512-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3D2512-DUP1)

Source: Y304451-06

Prepared: 04/25/2023 Analyzed: 04/26/2023

Boron	0.880	0.100	mg/L		1.02			15.2	50	
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Batch B3D2613 - DTPA Sorbitol Preparation

Blank (B3D2613-BLK1)

Prepared: 04/26/2023 Analyzed: 04/27/2023

Boron	ND	0.100	mg/L							U
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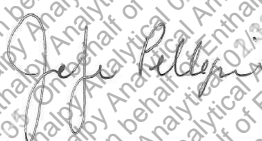
Duplicate (B3D2613-DUP1)

Source: Y304456-04

Prepared: 04/26/2023 Analyzed: 04/27/2023

Boron	0.126	0.101	mg/L		0.135			7.03	50	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 B3D2518 - Saturated Paste pH/EC

Blank (B3D2518-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B3D2518-DUP1)

Source: Y304451-05

Prepared: 04/25/2023 Analyzed: 04/26/2023

pH 7.94 pH Units 7.95 0.126 25

Specific Conductance (EC) 1.98 0.00500 mmhos/cm 2.33 16.6 25

Batch B3D2519 - Saturated Paste pH/EC

Blank (B3D2519-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B3D2519-DUP1)

Source: Y304456-03

Prepared: 04/25/2023 Analyzed: 04/26/2023

pH 7.95 pH Units 8.00 0.627 25

Specific Conductance (EC) 0.782 0.00500 mmhos/cm 0.831 6.04 25

Batch B3E0312 - Saturated Paste pH/EC

Duplicate (B3E0312-DUP1)

Source: Y305056-01

Prepared: 05/03/2023 Analyzed: 05/04/2023

pH 8.36 pH Units 7.99 4.53 25

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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
Batch L681381 -										
DUP (L 91720-DUP)										
		Source: 91720			Prepared: Analyzed: 05/11/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
MS (L 91720-MS)										
		Source: 91720			Prepared: Analyzed: 05/11/2023					
Chromium, Hexavalent	29.2	2.5	mg/Kg	39.5	<1.22	74	75-125			*
LCS (LCS)										
					Prepared: Analyzed: 05/11/2023					
Chromium, Hexavalent	7.16	0.5	mg/Kg	8		90	75-125			
LRB (LRB)										
					Prepared: Analyzed: 05/11/2023					
Chromium, Hexavalent	0.255	0.5	mg/Kg			-				J

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

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 L678043 - 3550B

MSD (L 81642-MSD-L678043)

Source: Y304456-02

Prepared: 04/25/2023 Analyzed: 04/25/2023

Acenaphthene	0.0975	0.00067	mg/Kg	0.165	<0.000304	59	30-130	3.5	30	
1-Methylnaphthalene	0.0946	0.00201	"	0.165	<0.00109	57.3	30-130	7.1	30	
2-Methylnaphthalene	0.0931	0.00201	"	0.165	<0.00194	56.4	30-130	4.2	30	
Pyrene	0.107	0.00067	"	0.165	<0.000643	64.8	30-130	2.8	30	
Anthracene	0.101	0.00067	"	0.165	<0.000334	61.2	30-130	1.3	30	
Benzo(a)anthracene	0.114	0.00067	"	0.165	<0.000493	69	30-130	0	30	
Fluoranthene	0.113	0.00067	"	0.165	<0.000394	68.4	30-130	2.6	30	
Naphthalene	0.093	0.00201	"	0.165	<0.00145	56.3	30-130	3.6	30	
Fluorene	0.103	0.00067	"	0.165	<0.000286	62.4	30-130	3.8	30	
Benzo(a)pyrene	0.11	0.00067	"	0.165	<0.000468	66.6	30-130	4.6	30	
Dibenz(a,h)anthracene	0.0994	0.00067	"	0.165	<0.000614	60.2	30-130	11	30	
Chrysene	0.0956	0.00067	"	0.165	<0.000624	57.9	30-130	1.5	30	
Benzo(k)fluoranthene	0.0833	0.00067	"	0.165	<0.000437	50.4	30-130	10.3	30	
Benzo(b)fluoranthene	0.0647	0.00067	"	0.165	<0.000585	39.2	30-130	14	30	
Indeno(1,2,3-cd)pyrene	0.0954	0.00067	"	0.165	0.000791	57.3	30-130	10.1	30	
Surrogate: Nitrobenzene-d5	46.6	"	"	0.33	163	46.6	29-110			
Surrogate: 2-Fluorobiphenyl	47.5	"	"	0.33	163	47.5	33-115			
Surrogate: 4-Terphenyl-d14	56	"	"	0.33	189	56	33-122			

MS (L 81642-MS-L678043)

Source: Y304456-02

Prepared: 04/25/2023 Analyzed: 04/25/2023

Fluoranthene	0.11	0.00067	mg/Kg	0.164	<0.000394	67	30-130			
Benzo(b)fluoranthene	0.0745	0.00067	"	0.164	<0.000585	45.4	30-130			
Pyrene	0.104	0.00067	"	0.164	<0.000643	63.4	30-130			
Naphthalene	0.0897	0.00201	"	0.164	<0.00145	54.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0862	0.00067	"	0.164	0.000791	52	30-130			
Fluorene	0.0991	0.00067	"	0.164	<0.000286	60.4	30-130			
1-Methylnaphthalene	0.0881	0.00201	"	0.164	<0.00109	53.7	30-130			

Origins Laboratory, Inc.

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Jen Pellegrini For 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 - HSR - Cutler #14-31

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 L678043 - 3550B

MS (L 81642-MS-L678043)

Source: Y304456-02

Prepared: 04/25/2023 Analyzed: 04/25/2023

Chrysene	0.0941	0.00067	mg/Kg	0.164	<0.000624	57.3	30-130
2-Methylnaphthalene	0.0892	0.00201	"	0.164	<0.00194	54.3	30-130
Dibenz(a,h)anthracene	0.089	0.00067	"	0.164	<0.000614	54.2	30-130
Acenaphthene	0.0941	0.00067	"	0.164	<0.000304	57.3	30-130
Anthracene	0.0996	0.00067	"	0.164	<0.000334	60.7	30-130
Benzo(a)anthracene	0.114	0.00067	"	0.164	<0.000493	69.5	30-130
Benzo(a)pyrene	0.105	0.00067	"	0.164	<0.000468	64	30-130
Benzo(k)fluoranthene	0.0924	0.00067	"	0.164	<0.000437	56.3	30-130
Surrogate: Nitrobenzene-d5	45.7	"	"	0.328	763	45.7	29-110
Surrogate: 4-Terphenyl-d14	56.7	"	"	0.328	189	56.7	33-122
Surrogate: 2-Fluorobiphenyl	46.3	"	"	0.328	763	46.3	33-115

LCS (LCS-L678043)

Prepared: 04/25/2023 Analyzed: 04/25/2023

Acenaphthene	0.121	0.00067	mg/Kg	0.167		72.4	30-130
Pyrene	0.132	0.00067	"	0.167		79	30-130
Fluoranthene	0.139	0.00067	"	0.167		83.2	30-130
Naphthalene	0.119	0.00201	"	0.167		71.2	30-130
Indeno(1,2,3-cd)pyrene	0.114	0.00067	"	0.167		68.2	30-130
Fluorene	0.128	0.00067	"	0.167		76.6	30-130
1-Methylnaphthalene	0.12	0.00201	"	0.167		71.8	30-130
Benzo(a)anthracene	0.146	0.00067	"	0.167		87.4	30-130
2-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130
Dibenz(a,h)anthracene	0.117	0.00067	"	0.167		70	30-130
Chrysene	0.122	0.00067	"	0.167		73	30-130
Benzo(a)pyrene	0.134	0.00067	"	0.167		80.2	30-130
Benzo(b)fluoranthene	0.0912	0.00067	"	0.167		54.6	30-130
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130

Origins Laboratory, Inc.

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Jen Pellegrini For 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 - HSR - Cutler #14-31

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 L678043 - 3550B

LCS (LCS-L678043)

Prepared: 04/25/2023 Analyzed: 04/25/2023

Anthracene	0.126	0.00067	mg/Kg	0.167		75.4	30-130			
Surrogate: Nitrobenzene-d5	66		"	0.333		66	29-110			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	66		"	0.333		66	33-115			

LRB (LRB-L678043)

Prepared: 04/25/2023 Analyzed: 04/25/2023

Naphthalene	ND	0.00201	mg/Kg							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00201	"							
1-Methylnaphthalene	ND	0.00201	"							
Benzo(a)pyrene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333		64.5	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - HSR - Cutler #14-31

Notes and Definitions

- U Sample is Non-Detect.
 - J Estimated Value. Analyte below reported quantitation limit.
 - * QC Failure
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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