



July 13, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Hays Federal #31-8H5

Project Number - 815901675

Attached are your analytical results for Noble - Hays Federal #31-8H5 received by Origins Laboratory, Inc. June 30, 2021. This project is associated with Origins project number Y106745-01.

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: 815901675
Project: Noble - Hays Federal #31-8H5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@0-2'	Y106745-01	Soil	June 30, 2021 9:35	06/30/2021 13:01
SB-02@0-2'	Y106745-02	Soil	June 30, 2021 9:48	06/30/2021 13:01
SB-03@0-2'	Y106745-03	Soil	June 30, 2021 9:55	06/30/2021 13:01
SB-04@0-2'	Y106745-04	Soil	June 30, 2021 10:02	06/30/2021 13:01
SB-05@0-2'	Y106745-05	Soil	June 30, 2021 9:28	06/30/2021 13:01
SB-06@0-2'	Y106745-06	Soil	June 30, 2021 10:18	06/30/2021 13:01
SB-07@0-2'	Y106745-07	Soil	June 30, 2021 10:28	06/30/2021 13:01
SB-08@0-2'	Y106745-08	Soil	June 30, 2021 10:40	06/30/2021 13:01
SB-09@0-2'	Y106745-09	Soil	June 30, 2021 10:34	06/30/2021 13:01
SB-10@0-2'	Y106745-10	Soil	June 30, 2021 10:08	06/30/2021 13:01
Background-01@2'	Y106745-11	Soil	June 30, 2021 10:58	06/30/2021 13:01

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

ORIGINS
LABORATORY, INC

4100745

www.originslaboratory.com

page 1 of 2

Client: EAGLE ENV CONSULTING
Address: 8000 W 44TH AVE
WHEAT RIDGE, CO
Project Manager: MARTIN ECKERT III
Project Name: HAYS FEDERAL #31-8H5
Project Number: 815901675
Samples Collected By: ME
Telephone Number: 303-433-0479
Email Address: MCE@EAGLE-ENV.COM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
SB-01 E.O.-2	6-30-21	0935	2	X	Soil	X	TABLE 115 METALS -602D
SB-02 E.O.-2		0948			Soil	X	
SB-03 E.O.-2		0955			Soil	X	
SB-04 E.O.-2		1002			Soil	X	
SB-05 E.O.-2		0928			Soil	X	
SB-06 E.O.-2		1018			Soil	X	Chrom VI = 794A
SB-07 E.O.-2		1028			Soil	X	
SB-08 E.O.-2		1040			Soil	X	
SB-09 E.O.-2		1034			Soil	X	
SB-10 E.O.-2		1008			Soil	X	
Relinquished By: <u>[Signature]</u>	Date: <u>6-30-21</u>	Time: <u>1301</u>	Received By: <u>[Signature]</u>	Received By: <u>[Signature]</u>	Date: <u>6-30-21</u>	Time: <u>1301</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard

Date Results Needed: 8/1/2021

Date Received: 8/1/2021

Origins Laboratory, Inc.

[Signature]

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Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS

LABORATORY, INC

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: 815901675

Project: Noble - Hays Federal #31-8H5

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/06/12

Origins Work Order: Y106745

Client: Eagle

Client Project ID: Hays Federal 15-81

Checklist Completed by: JG

Shipped Via: HB

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

Date/Time completed: 6/19/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

Water

Other:

Cooler Number/Temperature: 1, 1, 1 °C / °C / °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ¹¹²	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" 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"/>			
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"/>			
Were all samples received intact ¹¹²	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ¹¹²	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ¹¹²	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ¹¹²	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ¹¹²	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ¹¹²	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ¹¹²	<input checked="" 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"/>			
Are samples preserved that require preservation and was it checked ¹¹² (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) or > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JM

Date/Time Reviewed 7-1-12

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-01@0-2'

6/30/2021 9:35:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.279	0.199	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	93.8 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	07/05/2021	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	07/06/2021	U
Toluene	ND	0.00200	"	"	"	KDK	"	07/05/2021	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	07/06/2021	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	"	"	"	"	"	07/05/2021	
Surrogate: Toluene-d8	94.2 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	79.6 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.

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SB-01@0-2'

6/30/2021 9:35:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-01 (Soil)

Metals by Saturated Paste

Calcium	1.00	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	0.876	0.0823	"	"	"	CJM	"	"	
Sodium	3.25	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000396	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000375	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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SB-01@0-2'

6/30/2021 9:35:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	69.8 %	33-115			L5622 10		07/06/2021	07/06/2021	
Surrogate: 4-Terphenyl-d14	65 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	70.7 %	29-110			"		"	"	

pH in Soil by EPA 9045D

pH	8.13	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021		
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SAR by 20B Saturated Paste

SAR	3.36	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.552	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	
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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-02@0-2'

6/30/2021 9:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.77	0.202	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	78.9 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/05/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	07/06/2021	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	07/05/2021	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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Project: Noble - Hays Federal #31-8H5

SB-02@0-2'

6/30/2021 9:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-02 (Soil)

Metals by Saturated Paste

Calcium	0.579	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	1.08	0.0823	"	"	"	CJM	"	"	
Sodium	9.63	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00988	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.0151	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.0152	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00598	0.00067	"	"	"		"	"	
Chrysene	0.0118	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00221	0.00067	"	"	"		"	"	
Fluoranthene	0.0084	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00767	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00894	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 64.7 % 33-115 " " "

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SB-02@0-2'

6/30/2021 9:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-02 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	59.2 %	33-122			L5622 10	07/06/2021	07/06/2021
Surrogate: Nitrobenzene-d5	63.5 %	29-110			"	"	"

pH in Soil by EPA 9045D

pH	8.14	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021
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SAR by 20B Saturated Paste

SAR	10.6	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.37	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-03@0-2'

6/30/2021 9:55:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.419	0.200	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	81.4 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/05/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-03@0-2'

6/30/2021 9:55:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-03 (Soil)

Metals by Saturated Paste

Calcium	0.748	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	0.706	0.0823	"	"	"	CJM	"	"	
Sodium	2.85	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.000506	0.00067	"	"	"		"	"	J
Benzo(a)pyrene	0.000806	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00101	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000457	0.00067	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000611	0.00067	"	"	"		"	"	J
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-03@0-2'

6/30/2021 9:55:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-03 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	72 %	33-115			L5622 10		07/06/2021	07/06/2021	
Surrogate: 4-Terphenyl-d14	72.3 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	68.1 %	29-110			"		"	"	

pH in Soil by EPA 9045D


pH	8.02	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021		
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SAR by 20B Saturated Paste

SAR	3.35	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.468	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-04@0-2'

6/30/2021 10:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.87	0.201	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	91.8 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/05/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-04@0-2'

6/30/2021 10:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-04 (Soil)

Metals by Saturated Paste

Calcium	1.27	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	2.39	0.0823	"	"	"	CJM	"	"	
Sodium	10.8	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00942	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.0174	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.0186	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.006	0.00067	"	"	"		"	"	
Chrysene	0.0123	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00273	0.00067	"	"	"		"	"	
Fluoranthene	0.00729	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.0102	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00829	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 68.3 % 33-115 " " "

Origins Laboratory, Inc.

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-04@0-2'

6/30/2021 10:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-04 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	65.2 %	33-122			L5622 10	07/06/2021	07/06/2021
Surrogate: Nitrobenzene-d5	70.5 %	29-110			"	"	"

pH in Soil by EPA 9045D

pH	8.22	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021
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SAR by 20B Saturated Paste

SAR	8.01	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.69	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-05@0-2'

6/30/2021 9:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.723	0.201	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	101 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/05/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.3 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-05@0-2'

6/30/2021 9:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-05 (Soil)

Metals by Saturated Paste

Calcium	1.66	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	2.01	0.0823	"	"	"	CJM	"	"	
Sodium	6.69	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.0035	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00354	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00356	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00141	0.00067	"	"	"		"	"	
Chrysene	0.00433	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00044	0.00067	"	"	"		"	"	J
Fluoranthene	0.00363	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00141	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00305	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 67.5 % 33-115 " " " "

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-05@0-2'

6/30/2021 9:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-05 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	63 %	33-122			L5622 10		07/06/2021	07/06/2021	
Surrogate: Nitrobenzene-d5	69.9 %	29-110			"		"	"	

pH in Soil by EPA 9045D

pH	8.23		pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021	
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SAR by 20B Saturated Paste

SAR	4.94		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	
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Total Metals by 6020B

Arsenic	0.783	0.25	mg/Kg	5	L561745		07/01/2021	07/06/2021	
Barium	44.4	0.25	"	"	"		"	"	
Cadmium	0.102	0.25	"	"	"		"	"	J
Copper	5.09	0.25	"	"	"		"	"	
Lead	6.38	0.25	"	"	"		"	"	
Nickel	3.86	0.25	"	"	"		"	"	
Selenium	0.162	0.25	"	"	"		"	"	J
Silver	0.027	0.25	"	"	"		"	"	J

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-05@0-2'

6/30/2021 9:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-05 (Soil)

Total Metals by 6020B

Zinc	23.3	2.5	mg/Kg	5	L561745	07/01/2021	07/06/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	1.02	mg/Kg	2	L562355	06/30/2021	07/07/2021
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Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-06@0-2'

6/30/2021 10:18:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.359	0.199	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	92.2 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/05/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.3 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-06@0-2'

6/30/2021 10:18:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-06 (Soil)

Metals by Saturated Paste

Calcium	2.41	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	2.66	0.0823	"	"	"	CJM	"	"	
Sodium	4.82	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	0.000549	0.00067	"	"	"		"	"	J
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.0138	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.0195	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.0205	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.0065	0.00067	"	"	"		"	"	
Chrysene	0.0172	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.0019	0.00067	"	"	"		"	"	
Fluoranthene	0.0159	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00919	0.00067	"	"	"		"	"	
Naphthalene	0.000482	0.00067	"	"	"		"	"	JB
Pyrene	0.0156	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 69.6 % 33-115 " " "

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-06@0-2'

6/30/2021 10:18:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-06 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	69 %	33-122			L5622 10		07/06/2021	07/06/2021	
Surrogate: Nitrobenzene-d5	66.3 %	29-110			"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021	
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SAR by 20B Saturated Paste

SAR	3.03		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.20	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-07@0-2'

6/30/2021 10:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.73	0.199	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	93.3 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-07@0-2'

6/30/2021 10:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-07 (Soil)

Metals by Saturated Paste

Calcium	0.926	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	1.87	0.0823	"	"	"	CJM	"	"	
Sodium	7.50	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00051	0.00067	"	"	"		"	"	J
Benzo(a)pyrene	0.000839	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000788	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000816	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.000888	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000535	0.00067	"	"	"		"	"	J
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.0008	0.00067	"	"	"		"	"	

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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-07@0-2'

6/30/2021 10:28:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-07 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	70.5 %	33-115			L5622 10		07/06/2021	07/06/2021	
Surrogate: 4-Terphenyl-d14	69.2 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	66.5 %	29-110			"		"	"	

pH in Soil by EPA 9045D

pH	8.17	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021		
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SAR by 20B Saturated Paste

SAR	6.32	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.16	0.00500 mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021		
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-08@0-2'

6/30/2021 10:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.69	0.201	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	94.0 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-08@0-2'

6/30/2021 10:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-08 (Soil)

Metals by Saturated Paste

Calcium	2.25	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	2.77	0.0823	"	"	"	CJM	"	"	
Sodium	4.86	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562210		07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000266	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000273	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-08@0-2'

6/30/2021 10:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-08 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	69.6 %	33-115			L5622 10		07/06/2021	07/06/2021	
Surrogate: 4-Terphenyl-d14	63.9 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	68.7 %	29-110			"		"	"	

pH in Soil by EPA 9045D

pH	7.97	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021		
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SAR by 20B Saturated Paste

SAR	3.07	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.08	0.00500 mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021		
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-09@0-2'

6/30/2021 10:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.12	0.200	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	87.3 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-09@0-2'

6/30/2021 10:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-09 (Soil)

Metals by Saturated Paste

Calcium	2.10	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	2.24	0.0823	"	"	"	CJM	"	"	
Sodium	3.87	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0067	mg/Kg	10	L562314		07/07/2021	07/07/2021	
2-Methylnaphthalene	ND	0.0067	"	"	"		"	"	
Acenaphthene	ND	0.0067	"	"	"		"	"	
Anthracene	ND	0.0067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.0067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.0067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.0067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.0067	"	"	"		"	"	
Chrysene	ND	0.0067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.0067	"	"	"		"	"	
Fluoranthene	ND	0.0067	"	"	"		"	"	
Fluorene	ND	0.0067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0067	"	"	"		"	"	
Naphthalene	ND	0.0067	"	"	"		"	"	
Pyrene	ND	0.0067	"	"	"		"	"	

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-09@0-2'

6/30/2021 10:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-09 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	64.3 %	33-115			L5623	07/07/2021	07/07/2021
Surrogate: 4-Terphenyl-d14	72.4 %	33-122			14	"	"
Surrogate: Nitrobenzene-d5	65.8 %	29-110			"	"	"

pH in Soil by EPA 9045D

pH	7.92	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021
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SAR by 20B Saturated Paste

SAR	2.62	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.913	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021
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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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-10@0-2'

6/30/2021 10:08:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.884	0.201	mg/L	1	B1F3021	CJM	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G0110	KDK	07/01/2021	07/02/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	90.1 %	50-150	"	"	"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G0109	KDK	07/01/2021	07/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SB-10@0-2'

6/30/2021 10:08:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106745-10 (Soil)

Metals by Saturated Paste

Calcium	0.862	0.0499	meq/L	1	[CALC]	CJM	07/02/2021	07/02/2021	
Magnesium	1.15	0.0823	"	"	"	CJM	"	"	
Sodium	7.74	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L562314		07/07/2021	07/07/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	0.00212	0.00067	"	"	"		"	"	
Anthracene	0.00194	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.04	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.0558	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.0547	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.0297	0.00067	"	"	"		"	"	
Chrysene	0.0482	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00943	0.00067	"	"	"		"	"	
Fluoranthene	0.028	0.00067	"	"	"		"	"	
Fluorene	0.000635	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	0.0202	0.00067	"	"	"		"	"	
Naphthalene	0.000869	0.00067	"	"	"		"	"	
Pyrene	0.0387	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	64.5 %	33-115	"	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	78 %	33-122	"	"	"	"	"	"	

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: 815901675
Project: Noble - Hays Federal #31-8H5

SB-10@0-2'

6/30/2021 10:08:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-10 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	57.5 %	29-110	L5623 14	07/07/2021	07/07/2021
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pH in Soil by EPA 9045D

pH	8.18	pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021
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SAR by 20B Saturated Paste

SAR	7.71	SAR	1	B1G0205	CJM	07/02/2021	07/02/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.14	0.00500 mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021
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Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

Background-01@2'
6/30/2021 10:58:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106745-11 (Soil)

Total Metals by 6020B

Arsenic	0.818	0.25	mg/Kg	5	L561745	07/01/2021	07/06/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L562355	06/30/2021	07/07/2021
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Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0109 - EPA 5030 (soil)

Blank (B1G0109-BLK1)

Prepared: 07/01/2021 Analyzed: 07/05/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							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	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0109 - EPA 5030 (soil)

LCS (B1G0109-BS1)

Prepared: 07/01/2021 Analyzed: 07/05/2021

1,2,4-Trimethylbenzene	0.0590	0.00200	mg/kg	0.0500		118	70-130			
Naphthalene	0.0571	0.0100	"	0.0500		114	70-130			
1,3,5-Trimethylbenzene	0.0569	0.00200	"	0.0500		114	70-130			
Benzene	0.0563	0.00200	"	0.0500		113	70-130			
Ethylbenzene	0.0575	0.00200	"	0.0500		115	70-130			
m,p-Xylene	0.117	0.00400	"	0.100		117	70-130			
o-Xylene	0.0571	0.00200	"	0.0500		114	70-130			
Toluene	0.0547	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jordan A. Merrill For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0109 - EPA 5030 (soil)

Matrix Spike (B1G0109-MS1)

Source: Y106738-03

Prepared: 07/01/2021 Analyzed: 07/05/2021

1,2,4-Trimethylbenzene	0.0444	0.00200	mg/kg	0.0500	ND	88.7	70-130
Naphthalene	0.0402	0.0100	"	0.0500	ND	80.4	70-130
1,3,5-Trimethylbenzene	0.0437	0.00200	"	0.0500	ND	87.4	70-130
Benzene	0.0484	0.00200	"	0.0500	ND	96.8	70-130
Ethylbenzene	0.0449	0.00200	"	0.0500	ND	89.8	70-130
m,p-Xylene	0.0908	0.00400	"	0.100	ND	90.8	70-130
o-Xylene	0.0445	0.00200	"	0.0500	ND	89.1	70-130
Toluene	0.0444	0.00200	"	0.0500	ND	88.8	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125		95.9	70-130
Surrogate: Toluene-d8	0.12	"	"	0.125		94.9	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		99.4	70-130

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0109 - EPA 5030 (soil)

Matrix Spike Dup (B1G0109-MSD1)

Source: Y106738-03

Prepared: 07/01/2021 Analyzed: 07/05/2021

1,2,4-Trimethylbenzene	0.0453	0.00200	mg/kg	0.0500	ND	90.7	70-130	2.19	20	
Naphthalene	0.0413	0.0100	"	0.0500	ND	82.7	70-130	2.85	20	
1,3,5-Trimethylbenzene	0.0449	0.00200	"	0.0500	ND	89.8	70-130	2.66	20	
Benzene	0.0498	0.00200	"	0.0500	ND	99.6	70-130	2.93	20	
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130	2.25	20	
m,p-Xylene	0.0925	0.00400	"	0.100	ND	92.5	70-130	1.85	20	
o-Xylene	0.0457	0.00200	"	0.0500	ND	91.3	70-130	2.48	20	
Toluene	0.0456	0.00200	"	0.0500	ND	91.1	70-130	2.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0110 - EPA 3550B

Blank (B1G0110-BLK1)

Prepared: 07/01/2021 Analyzed: 07/02/2021

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		94.2	50-150			

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0110 - EPA 3550B

LCS (B1G0110-BS1)

Prepared: 07/01/2021 Analyzed: 07/02/2021

Diesel (C10-C28)	469	50.0	mg/kg	500	93.8	70-130
Residual Range Organics (C28-C40)	473	200	"	500	94.5	70-130
Surrogate: o-Terphenyl	50		"	50.0	99.5	50-150

Origins Laboratory, Inc.

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0110 - EPA 3550B

Matrix Spike (B1G0110-MS1)

Source: Y106738-03

Prepared: 07/01/2021 Analyzed: 07/02/2021

Diesel (C10-C28)	407	50.0	mg/kg	500	ND	81.4	70-130
Residual Range Organics (C28-C40)	398	200	"	500	43.9	70.9	70-130
Surrogate: o-Terphenyl	41		"	50.0		81.0	50-150

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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 B1G0110 - EPA 3550B

Matrix Spike Dup (B1G0110-MSD1)

Source: Y106738-03

Prepared: 07/01/2021 Analyzed: 07/02/2021

Diesel (C10-C28)	384	50.0	mg/kg	500	ND	76.7	70-130	5.88	35	
Residual Range Organics (C28-C40)	345	200	"	500	43.9	60.3	70-130	14.3	35	QM-07
Surrogate: o-Terphenyl	32		"	50.0		64.1	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

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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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 B1G0121 - NO PREP

Duplicate (B1G0121-DUP1)

Source: Y106717-01

Prepared: 07/01/2021 Analyzed: 07/02/2021

pH	7.91		pH Units	7.96		0.630	25
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Batch B1G0123 - NO PREP

Blank (B1G0123-BLK1)

Prepared: 07/01/2021 Analyzed: 07/02/2021

Specific Conductance (EC)	0.00130	0.00500	mmhos/cm
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Duplicate (B1G0123-DUP1)

Source: Y106717-01

Prepared: 07/01/2021 Analyzed: 07/02/2021

Specific Conductance (EC)	11.4	0.00500	mmhos/cm	12.5		8.91	25
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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

MSD (L 94708-MSD-L562210)

Source: 94708

Prepared: 07/06/2021 Analyzed: 07/06/2021

Benzo(a)anthracene	0.132	0.000441	mg/Kg	0.166	94708	79.5	30-130	3.8	30	
Naphthalene	0.122	0.000467	"	0.166	94708	73.4	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.114	0.000344	"	0.166	94708	68.6	30-130	12	30	
Fluorene	0.131	0.000501	"	0.166	94708	78.9	30-130	3.8	30	
Fluoranthene	0.127	0.000529	"	0.166	94708	76.5	30-130	3.8	30	
Dibenz(a,h)anthracene	0.128	0.000279	"	0.166	94708	77.1	30-130	13.3	30	
Chrysene	0.147	0.000256	"	0.166	94708	88.5	30-130	2	30	
Benzo(b)fluoranthene	0.118	0.000138	"	0.166	0.000301	71	30-130	3.4	30	
Pyrene	0.127	0.000387	"	0.166	94708	76.5	30-130	4.6	30	
Acenaphthene	0.122	0.000431	"	0.166	94708	73.4	30-130	6.7	30	
2-Methylnaphthalene	0.127	0.000542	"	0.166	94708	76.5	30-130	11.6	30	
1-Methylnaphthalene	0.128	0.00048	"	0.166	94708	77.1	30-130	8.9	30	
Benzo(a)pyrene	0.143	0.000133	"	0.166	0.000261	86.1	30-130	2.1	30	
Benzo(k)fluoranthene	0.112	0.000486	"	0.166	94708	67.4	30-130	7.7	30	
Anthracene	0.134	0.000426	"	0.166	94708	80.7	30-130	4.5	30	
Surrogate: Nitrobenzene-d5	69.7		"	0.331	233	69.7	29-110			
Surrogate: 4-Terphenyl-d14	66.4		"	0.331	231	66.4	33-122			
Surrogate: 2-Fluorobiphenyl	68.8		"	0.331	229	68.8	33-115			

MS (L 94708-MS-L562210)

Source: 94708

Prepared: 07/06/2021 Analyzed: 07/06/2021

Benzo(k)fluoranthene	0.121	0.000486	mg/Kg	0.163	94708	74.2	30-130			
Naphthalene	0.111	0.000467	"	0.163	94708	68	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000344	"	0.163	94708	61.9	30-130			
Fluorene	0.126	0.000501	"	0.163	94708	77.3	30-130			
Fluoranthene	0.132	0.000529	"	0.163	94708	80.9	30-130			
Chrysene	0.144	0.000256	"	0.163	94708	88.3	30-130			
Benzo(b)fluoranthene	0.114	0.000138	"	0.163	0.000301	69.9	30-130			

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

MS (L 94708-MS-L562210)

Source: 94708

Prepared: 07/06/2021 Analyzed: 07/06/2021

Benzo(a)pyrene	0.14	0.000133	mg/Kg	0.163	0.000261	85.8	30-130
Benzo(a)anthracene	0.127	0.000441	"	0.163	94708	77.9	30-130
Anthracene	0.128	0.000426	"	0.163	94708	78.5	30-130
Acenaphthene	0.114	0.000431	"	0.163	94708	69.9	30-130
Dibenz(a,h)anthracene	0.112	0.000279	"	0.163	94708	68.7	30-130
2-Methylnaphthalene	0.113	0.000542	"	0.163	94708	69.3	30-130
1-Methylnaphthalene	0.117	0.00048	"	0.163	94708	71.7	30-130
Pyrene	0.133	0.000387	"	0.163	94708	81.5	30-130
Surrogate: Nitrobenzene-d5	68.8	"	"	0.327	233	68.8	29-110
Surrogate: 4-Terphenyl-d14	73.3	"	"	0.327	231	73.3	33-122
Surrogate: 2-Fluorobiphenyl	71.2	"	"	0.327	229	71.2	33-115

LCS (LCS-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

Fluoranthene	0.123	0.000529	mg/Kg	0.167		73.6	30-130
Benzo(a)anthracene	0.112	0.000441	"	0.167		67	30-130
Benzo(a)pyrene	0.126	0.000133	"	0.167		75.4	30-130
Benzo(b)fluoranthene	0.102	0.000138	"	0.167		61	30-130
Benzo(k)fluoranthene	0.106	0.000486	"	0.167		63.4	30-130
Chrysene	0.135	0.000256	"	0.167		80.8	30-130
Dibenz(a,h)anthracene	0.103	0.000279	"	0.167		61.6	30-130
Fluorene	0.121	0.000501	"	0.167		72.4	30-130
Anthracene	0.123	0.000426	"	0.167		73.6	30-130
Naphthalene	0.109	0.000467	"	0.167		65.2	30-130
Pyrene	0.12	0.000387	"	0.167		71.8	30-130
Indeno(1,2,3-cd)pyrene	0.0983	0.000344	"	0.167		58.8	30-130
Acenaphthene	0.113	0.000431	"	0.167		67.6	30-130
2-Methylnaphthalene	0.11	0.000542	"	0.167		65.8	30-130

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

LCS (LCS-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

1-Methylnaphthalene	0.112	0.00048	mg/Kg	0.167	67	30-130
Surrogate: Nitrobenzene-d5	67.2		"	0.333	67.2	29-110
Surrogate: 4-Terphenyl-d14	66		"	0.333	66	33-122
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333	68.1	33-115

LRB (LRB-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg			
1-Methylnaphthalene	ND	0.00067	"			
2-Methylnaphthalene	ND	0.00067	"			
Acenaphthene	ND	0.00067	"			
Benzo(a)anthracene	ND	0.00067	"			
Dibenz(a,h)anthracene	ND	0.00067	"			
Pyrene	ND	0.00067	"			
Naphthalene	0.000479	0.00067	"			J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			
Fluorene	ND	0.00067	"			
Fluoranthene	ND	0.00067	"			
Benzo(a)pyrene	ND	0.00067	"			
Anthracene	ND	0.00067	"			
Chrysene	ND	0.00067	"			
Benzo(k)fluoranthene	ND	0.00067	"			
Surrogate: 2-Fluorobiphenyl	73.5		"	0.333	73.5	33-115
Surrogate: 4-Terphenyl-d14	66.6		"	0.333	66.6	33-122
Surrogate: Nitrobenzene-d5	81.3		"	0.333	81.3	29-110

Batch L562314 - 3550B

MSD (G 54115-MSD-L562314)

Source: 54115

Prepared: 07/07/2021 Analyzed: 07/07/2021

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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562314 - 3550B

MSD (G 54115-MSD-L562314)

Source: 54115

Prepared: 07/07/2021 Analyzed: 07/07/2021

Dibenz(a,h)anthracene	0.0971	0.000279	mg/Kg	0.167	54115	58.1	30-130	6.2	30	
Fluoranthene	0.135	0.000529	"	0.167	54115	80.8	30-130	2.2	30	
Fluorene	0.123	0.000501	"	0.167	54115	73.6	30-130	5.8	30	
Indeno(1,2,3-cd)pyrene	0.0911	0.000344	"	0.167	54115	54.5	30-130	4.6	30	
Naphthalene	0.106	0.000467	"	0.167	54115	63.4	30-130	4.8	30	
Pyrene	0.126	0.000387	"	0.167	54115	75.4	30-130	2.4	30	
Chrysene	0.133	0.000256	"	0.167	54115	79.6	30-130	2.2	30	
2-Methylnaphthalene	0.105	0.000542	"	0.167	54115	62.8	30-130	2.8	30	
Benzo(b)fluoranthene	0.0793	0.000138	"	0.167	54115	47.4	30-130	6.6	30	
Benzo(a)pyrene	0.13	0.000133	"	0.167	54115	77.8	30-130	1.5	30	
Benzo(a)anthracene	0.118	0.000441	"	0.167	54115	70.6	30-130	1.6	30	
Anthracene	0.136	0.000426	"	0.167	54115	81.4	30-130	0	30	
1-Methylnaphthalene	0.11	0.00048	"	0.167	54115	65.8	30-130	4.6	30	
Benzo(k)fluoranthene	0.119	0.000486	"	0.167	54115	71.2	30-130	7.8	30	
Acenaphthene	0.115	0.000431	"	0.167	54115	68.8	30-130	3.5	30	
Surrogate: Nitrobenzene-d5	58.8		"	0.333	177	58.8	29-110			
Surrogate: 4-Terphenyl-d14	77.7		"	0.333	240	77.7	33-122			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333	186	65.4	33-115			

MS (G 54115-MS-L562314)

Source: 54115

Prepared: 07/07/2021 Analyzed: 07/07/2021

1-Methylnaphthalene	0.105	0.00048	mg/Kg	0.165	54115	63.6	30-130			
Benzo(k)fluoranthene	0.11	0.000486	"	0.165	54115	66.6	30-130			
Chrysene	0.136	0.000256	"	0.165	54115	82.4	30-130			
Benzo(a)pyrene	0.132	0.000133	"	0.165	54115	80	30-130			
Benzo(a)anthracene	0.12	0.000441	"	0.165	54115	72.7	30-130			
Anthracene	0.136	0.000426	"	0.165	54115	82.4	30-130			
Acenaphthene	0.111	0.000431	"	0.165	54115	67.2	30-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562314 - 3550B

MS (G 54115-MS-L562314)

Source: 54115

Prepared: 07/07/2021 Analyzed: 07/07/2021

2-Methylnaphthalene	0.102	0.000542	mg/Kg	0.165	54115	61.8	30-130
Benzo(b)fluoranthene	0.0742	0.000138	"	0.165	54115	44.9	30-130
Fluoranthene	0.132	0.000529	"	0.165	54115	80	30-130
Fluorene	0.116	0.000501	"	0.165	54115	70.3	30-130
Indeno(1,2,3-cd)pyrene	0.087	0.000344	"	0.165	54115	52.7	30-130
Naphthalene	0.101	0.000467	"	0.165	54115	61.2	30-130
Pyrene	0.123	0.000387	"	0.165	54115	74.5	30-130
Dibenz(a,h)anthracene	0.0912	0.000279	"	0.165	54115	55.2	30-130
Surrogate: 4-Terphenyl-d14	79.6	"	"	0.33	240	79.6	33-122
Surrogate: 2-Fluorobiphenyl	63.6	"	"	0.33	186	63.6	33-115
Surrogate: Nitrobenzene-d5	57.5	"	"	0.33	177	57.5	29-110

LCS (LCS-L562314)

Prepared: 07/07/2021 Analyzed: 07/07/2021

Pyrene	0.119	0.000387	mg/Kg	0.167		71.2	30-130
Acenaphthene	0.111	0.000431	"	0.167		66.4	30-130
Anthracene	0.13	0.000426	"	0.167		77.8	30-130
Naphthalene	0.105	0.000467	"	0.167		62.8	30-130
Indeno(1,2,3-cd)pyrene	0.0875	0.000344	"	0.167		52.3	30-130
1-Methylnaphthalene	0.108	0.00048	"	0.167		64.6	30-130
Chrysene	0.131	0.000256	"	0.167		78.4	30-130
Benzo(a)pyrene	0.128	0.000133	"	0.167		76.6	30-130
Benzo(a)anthracene	0.115	0.000441	"	0.167		68.8	30-130
Benzo(k)fluoranthene	0.108	0.000486	"	0.167		64.6	30-130
2-Methylnaphthalene	0.105	0.000542	"	0.167		62.8	30-130
Dibenz(a,h)anthracene	0.0939	0.000279	"	0.167		56.2	30-130
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130
Fluorene	0.118	0.000501	"	0.167		70.6	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: 815901675
Project: Noble - Hays Federal #31-8H5

PAH by 8270D SIM - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562314 - 3550B

LCS (LCS-L562314)

Prepared: 07/07/2021 Analyzed: 07/07/2021

Benzo(b)fluoranthene	0.081	0.000138	mg/Kg	0.167	48.5	30-130
Surrogate: 4-Terphenyl-d14	81.6	"		0.333	81.6	33-122
Surrogate: 2-Fluorobiphenyl	70.5	"		0.333	70.5	33-115
Surrogate: Nitrobenzene-d5	63.3	"		0.333	63.3	29-110

LRB (LRB-L562314)

Prepared: 07/07/2021 Analyzed: 07/07/2021

Fluoranthene	ND	0.00067	mg/Kg	-	-	-
Pyrene	ND	0.00067	"	-	-	-
Dibenz(a,h)anthracene	ND	0.00067	"	-	-	-
2-Methylnaphthalene	ND	0.00067	"	-	-	-
Benzo(a)anthracene	ND	0.00067	"	-	-	-
Anthracene	ND	0.00067	"	-	-	-
1-Methylnaphthalene	ND	0.00067	"	-	-	-
Acenaphthene	ND	0.00067	"	-	-	-
Benzo(k)fluoranthene	ND	0.00067	"	-	-	-
Benzo(b)fluoranthene	ND	0.00067	"	-	-	-
Benzo(a)pyrene	ND	0.00067	"	-	-	-
Chrysene	ND	0.00067	"	-	-	-
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	-	-	-
Naphthalene	ND	0.00067	"	-	-	-
Fluorene	ND	0.00067	"	-	-	-
Surrogate: 2-Fluorobiphenyl	68.4	"	0.333	68.4	33-115	
Surrogate: 4-Terphenyl-d14	74.7	"	0.333	74.7	33-122	
Surrogate: Nitrobenzene-d5	58.8	"	0.333	58.8	29-110	

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L561745 - 3050B

MSD (L 93792-MSD-L561745)

Source: Y106745-11

Prepared: 07/01/2021 Analyzed: 07/06/2021

Copper	9.39	0.0806	mg/Kg	2.45	8.02	56	75-125	9.2	80	*
Zinc	55.6	0.534	"	24.5	35.5	82	75-125	14.3	80	
Silver	0.505	0.0067	"	0.489	0.0753	103	75-125	3.6	80	
Selenium	3.37	0.103	"	4.89	0.195	69	75-125	2.3	80	*
Lead	12.8	0.031	"	2.45	9.83	121	75-125	3	80	
Cadmium	0.629	0.0259	"	0.489	0.155	129	75-125	1.1	80	*
Barium	68.8	0.042	"	4.89	68.9	NR	75-125	7	80	*
Arsenic	2.47	0.0855	"	2.45	0.818	68	75-125	11	80	*
Nickel	7.25	0.0633	"	2.45	5.08	89	75-125	5.6	80	

MS (L 93792-MS-L561745)

Source: Y106745-11

Prepared: 07/01/2021 Analyzed: 07/06/2021

Copper	10.3	0.0806	mg/Kg	2.48	8.02	92	75-125			
Silver	0.524	0.0067	"	0.496	0.0753	106	75-125			
Selenium	3.45	0.103	"	4.96	0.195	70	75-125			*
Arsenic	2.76	0.0855	"	2.48	0.818	78	75-125			
Barium	73.8	0.042	"	4.96	68.9	99	75-125			
Cadmium	0.622	0.0259	"	0.496	0.155	126	75-125			*
Lead	13.2	0.031	"	2.48	9.83	136	75-125			*
Zinc	64.2	0.534	"	24.8	35.5	116	75-125			
Nickel	7.67	0.0633	"	2.48	5.08	105	75-125			

LCS (LCS-L561745)

Prepared: 07/01/2021 Analyzed: 07/06/2021

Nickel	2.33	0.0633	mg/Kg	2.5		93	80-120			
Zinc	23	0.534	"	25		92	80-120			
Selenium	4.68	0.103	"	5		94	80-120			
Lead	2.48	0.031	"	2.5		99	80-120			
Copper	2.29	0.0806	"	2.5		92	80-120			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L561745 - 3050B

LCS (LCS-L561745)

Prepared: 07/01/2021 Analyzed: 07/06/2021

Cadmium	0.44	0.0259	mg/Kg	0.5	88	80-120
Barium	4.83	0.042	"	5	97	80-120
Arsenic	2.27	0.0855	"	2.5	91	80-120
Silver	0.472	0.0067	"	0.5	94	80-120

LRB (LRB-L561745)

Prepared: 07/01/2021 Analyzed: 07/06/2021

Cadmium	ND	0.25	mg/Kg	-	-	-
Zinc	ND	2.5	"	-	-	-
Silver	ND	0.25	"	-	-	-
Selenium	ND	0.25	"	-	-	-
Nickel	ND	0.25	"	-	-	-
Copper	0.105	0.25	"	-	-	-
Barium	ND	0.25	"	-	-	-
Arsenic	ND	0.25	"	-	-	-
Lead	ND	0.25	"	-	-	-

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Jordan A. Merrill For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L562355 -										
DUP (L 85724-DUP)			Source: 85724		Prepared: Analyzed: 07/07/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		85724	-		0	20	
MS (L 85724-MS)			Source: 85724		Prepared: Analyzed: 07/07/2021					
Chromium, Hexavalent	3.88	0.244	mg/Kg	7.72	85724	50	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/07/2021					
Chromium, Hexavalent	7.37	0.244	mg/Kg	8		92	75-125			
LRB (LRB)					Prepared: Analyzed: 07/07/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg			-				

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Jordan A. Merrill For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: 815901675

Project: Noble - Hays Federal #31-8H5

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.

JB [Undefined]

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 at a wet weight basis.

Origins Laboratory, Inc.

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