



June 18, 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 14, 2021. This project is associated with Origins project number Y106306-01.

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
SS-01@0.5'	Y106306-01	Soil	June 14, 2021 14:25	06/14/2021 17:50
SS-02@0.5'	Y106306-02	Soil	June 14, 2021 14:36	06/14/2021 17:50
SS-03@0.5'	Y106306-03	Soil	June 14, 2021 14:40	06/14/2021 17:50
SS-04@0.5'	Y106306-04	Soil	June 14, 2021 15:38	06/14/2021 17:50
SS-05@0.5'	Y106306-05	Soil	June 14, 2021 15:45	06/14/2021 17:50

Origins Laboratory, Inc.

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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: 01/09/12

Origins Work Order: Y106306

Client: Eagle

Client Project ID: Hays Federal 31-8H5

Checklist Completed by: SG

Shipped Via: HS

Date/time completed: 6/14/21

Airbill #: N/A

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

Water ☐ Other: ☐

Cooler Number/Temperature: 1, 21 °C

Thermometer ID: T003

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 (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked? (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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaOH, Na ₂ CO ₃ , NaAc+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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 6/14/21

Origins Laboratory, Inc.

[Signature]

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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

SS-01@0.5'

6/14/2021 2:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106306-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F1406	TEM	06/14/2021	06/14/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U
Surrogate: o-Terphenyl	76.9 %	50-150	"	"	"	"	"	"	"

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F1418	TEM	06/14/2021	06/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.

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SS-01@0.5'

6/14/2021 2:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106306-01 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00338	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00518	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00568	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00223	0.00067	"	"	"		"	"	
Chrysene	0.00405	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00086	0.00067	"	"	"		"	"	
Fluoranthene	0.00255	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00329	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00429	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	61.2 %	33-115	"	"	"		"	"	
Surrogate: 4-Terphenyl-d14	72.4 %	33-122	"	"	"		"	"	
Surrogate: Nitrobenzene-d5	52.7 %	29-110	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
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Martin C Eckert III
Project Number: 815901675
Project: Noble - Hays Federal #31-8H5

SS-02@0.5'

6/14/2021 2:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106306-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F1406	TEM	06/14/2021	06/14/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U
Surrogate: o-Terphenyl	76.3 %	50-150	"	"	"	"	"	"	"

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F1418	TEM	06/14/2021	06/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0067	mg/Kg	10	L558897		06/16/2021	06/17/2021	
2-Methylnaphthalene	ND	0.0067	"	"	"		"	"	

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

SS-02@0.5'

6/14/2021 2:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106306-02 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.0067	mg/Kg	10	L558897		06/16/2021	06/17/2021	
Anthracene	ND	0.0067	"	"	"		"	"	
Benzo(a)anthracene	0.0606	0.0067	"	"	"		"	"	
Benzo(a)pyrene	0.0968	0.0067	"	"	"		"	"	
Benzo(b)fluoranthene	0.111	0.0067	"	"	"		"	"	
Benzo(k)fluoranthene	0.0382	0.0067	"	"	"		"	"	
Chrysene	0.0679	0.0067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.0149	0.0067	"	"	"		"	"	
Fluoranthene	0.0496	0.0067	"	"	"		"	"	
Fluorene	ND	0.0067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.0561	0.0067	"	"	"		"	"	
Naphthalene	ND	0.0067	"	"	"		"	"	
Pyrene	0.0706	0.0067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	53.5 %	33-115	"	"	"		"	"	
Surrogate: 4-Terphenyl-d14	62.6 %	33-122	"	"	"		"	"	
Surrogate: Nitrobenzene-d5	41.6 %	29-110	"	"	"		"	"	

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Martin C Eckert III
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SS-03@0.5'

6/14/2021 2:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106306-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F1406	TEM	06/14/2021	06/14/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U
Surrogate: o-Terphenyl	91.1 %	50-150	"	"	"	"	"	"	"

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F1418	TEM	06/14/2021	06/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130	"	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000518	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	J
2-Methylnaphthalene	0.000699	0.00067	"	"	"		"	"	"
Acenaphthene	0.00362	0.00067	"	"	"		"	"	"

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

SS-03@0.5'

6/14/2021 2:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106306-03 (Soil)

PAH by 8270D SIM

Anthracene	0.0018	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
Benzo(a)anthracene	0.0884	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.14	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.154	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.0497	0.00067	"	"	"		"	"	
Chrysene	0.0958	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.0246	0.00067	"	"	"		"	"	
Fluoranthene	0.037	0.00067	"	"	"		"	"	
Fluorene	0.00429	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.0966	0.00067	"	"	"		"	"	
Naphthalene	0.00102	0.00067	"	"	"		"	"	
Pyrene	0.0738	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	56.7 %		33-115		"		"	"	
Surrogate: 4-Terphenyl-d14	61.3 %		33-122		"		"	"	
Surrogate: Nitrobenzene-d5	47 %		29-110		"		"	"	

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Wheat Ridge CO 80033

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

SS-04@0.5'

6/14/2021 3:38:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106306-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F1406	TEM	06/14/2021	06/14/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U
Surrogate: o-Terphenyl	77.2 %	50-150	"	"	"	"	"	"	"

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F1418	TEM	06/14/2021	06/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130	"	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	

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

SS-04@0.5'

6/14/2021 3:38:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106306-04 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00741	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.012	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.0127	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00456	0.00067	"	"	"		"	"	
Chrysene	0.00871	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.00184	0.00067	"	"	"		"	"	
Fluoranthene	0.0056	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00741	0.00067	"	"	"		"	"	
Naphthalene	0.000627	0.00067	"	"	"		"	"	J
Pyrene	0.00851	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	55.6 %	33-115	"	"	"		"	"	
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"		"	"	
Surrogate: Nitrobenzene-d5	47.7 %	29-110	"	"	"		"	"	

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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

SS-05@0.5'
6/14/2021 3:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106306-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F1406	TEM	06/14/2021	06/14/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U
Surrogate: o-Terphenyl	93.4 %	50-150	"	"	"	"	"	"	"

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F1418	TEM	06/14/2021	06/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130	"	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
2-Methylnaphthalene	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

SS-05@0.5'

6/14/2021 3:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106306-05 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L558897		06/16/2021	06/17/2021	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00243	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00411	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00493	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00203	0.00067	"	"	"		"	"	
Chrysene	0.00324	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.000701	0.00067	"	"	"		"	"	
Fluoranthene	0.00391	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00269	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00414	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	63.5 %	33-115	"	"	"		"	"	
Surrogate: 4-Terphenyl-d14	76.6 %	33-122	"	"	"		"	"	
Surrogate: Nitrobenzene-d5	55 %	29-110	"	"	"		"	"	

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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

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 B1F1406 - EPA 3550B

Blank (B1F1406-BLK1)

Prepared: 06/14/2021 Analyzed: 06/14/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	11		"	15.0		74.7	50-150			

Origins Laboratory, Inc.

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Eagle Environmental Consulting, 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 B1F1406 - EPA 3550B

LCS (B1F1406-BS1)

Prepared: 06/14/2021 Analyzed: 06/14/2021

Diesel (C10-C28)	561	50.0	mg/kg	600	93.4	70-130
Residual Range Organics (C28-C40)	591	200	"	600	98.5	70-130
Surrogate: o-Terphenyl	31		"	30.0	103	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
Batch B1F1406 - EPA 3550B										
Matrix Spike (B1F1406-MS1)			Source: Y106282-01			Prepared: 06/14/2021 Analyzed: 06/14/2021				
Diesel (C10-C28)	529	50.0	mg/kg	600	ND	88.2	70-130			
Residual Range Organics (C28-C40)	600	200	"	600	127	78.9	70-130			
Surrogate: o-Terphenyl	28		"	30.0		94.3	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 B1F1406 - EPA 3550B

Matrix Spike Dup (B1F1406-MSD1)

Source: Y106282-01

Prepared: 06/14/2021 Analyzed: 06/14/2021

Diesel (C10-C28)	558	50.0	mg/kg	600	ND	93.0	70-130	5.23	35	
Residual Range Organics (C28-C40)	626	200	"	600	127	83.2	70-130	4.20	35	
Surrogate: o-Terphenyl	32		"	30.0		108	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
Batch B1F1418 - EPA 5030 (soil)										
Blank (B1F1418-BLK1)					Prepared: 06/14/2021 Analyzed: 06/14/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

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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

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 B1F1418 - EPA 5030 (soil)

LCS (B1F1418-BS1)

Prepared: 06/14/2021 Analyzed: 06/14/2021

1,2,4-Trimethylbenzene	0.0552	0.00200	mg/kg	0.0500		110	70-130			
Naphthalene	0.0511	0.0100	"	0.0500		102	70-130			
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500		102	70-130			
Benzene	0.0427	0.00200	"	0.0500		85.3	70-130			
Ethylbenzene	0.0498	0.00200	"	0.0500		99.6	70-130			
m,p-Xylene	0.0984	0.00400	"	0.100		98.4	70-130			
o-Xylene	0.0478	0.00200	"	0.0500		95.5	70-130			
Toluene	0.0468	0.00200	"	0.0500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 B1F1418 - EPA 5030 (soil)

Matrix Spike (B1F1418-MS1)

Source: Y106301-01

Prepared: 06/14/2021 Analyzed: 06/14/2021

1,2,4-Trimethylbenzene	0.0474	0.00200	mg/kg	0.0500	ND	94.9	70-130			
Naphthalene	0.0431	0.0100	"	0.0500	ND	86.3	70-130			
1,3,5-Trimethylbenzene	0.0478	0.00200	"	0.0500	ND	95.7	70-130			
Benzene	0.0415	0.00200	"	0.0500	ND	83.0	70-130			
Ethylbenzene	0.0477	0.00200	"	0.0500	ND	95.4	70-130			
m,p-Xylene	0.0936	0.00400	"	0.100	ND	93.6	70-130			
o-Xylene	0.0447	0.00200	"	0.0500	ND	89.3	70-130			
Toluene	0.0455	0.00200	"	0.0500	ND	91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11	"	"	0.125		88.7	70-130			
Surrogate: Toluene-d8	0.13	"	"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		99.7	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 B1F1418 - EPA 5030 (soil)

Matrix Spike Dup (B1F1418-MSD1)

Source: Y106301-01

Prepared: 06/14/2021 Analyzed: 06/14/2021

1,2,4-Trimethylbenzene	0.0406	0.00200	mg/kg	0.0500	ND	81.2	70-130	15.6	20	
Naphthalene	0.0376	0.0100	"	0.0500	ND	75.2	70-130	13.7	20	
1,3,5-Trimethylbenzene	0.0407	0.00200	"	0.0500	ND	81.3	70-130	16.2	20	
Benzene	0.0364	0.00200	"	0.0500	ND	72.8	70-130	13.2	20	
Ethylbenzene	0.0409	0.00200	"	0.0500	ND	81.8	70-130	15.3	20	
m,p-Xylene	0.0806	0.00400	"	0.100	ND	80.6	70-130	14.9	20	
o-Xylene	0.0384	0.00200	"	0.0500	ND	76.8	70-130	15.1	20	
Toluene	0.0397	0.00200	"	0.0500	ND	79.5	70-130	13.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.11	"	"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.13	"	"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		98.5	70-130			

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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

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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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 L558897 - 3550B

MSD (L 97699-MSD-L558897)

Source: 97699

Prepared: 06/16/2021 Analyzed: 06/17/2021

Benzo(a)pyrene	0.139	0.000133	mg/Kg	0.166	0.000878	83.2	30-130	5.9	30	
1-Methylnaphthalene	0.105	0.00048	"	0.166	<0.000480	63.2	30-130	0.9	30	
2-Methylnaphthalene	0.105	0.000542	"	0.166	<0.000542	63.2	30-130	0.9	30	
Acenaphthene	0.117	0.000431	"	0.166	<0.000431	70.4	30-130	0.8	30	
Anthracene	0.136	0.000426	"	0.166	<0.000426	81.9	30-130	5.2	30	
Benzo(b)fluoranthene	0.121	0.000138	"	0.166	0.00118	72.1	30-130	7.7	30	
Pyrene	0.143	0.000387	"	0.166	0.0014	85.3	30-130	5	30	
Naphthalene	0.0963	0.000467	"	0.166	<0.000467	58	30-130	0.4	30	
Indeno(1,2,3-cd)pyrene	0.105	0.000344	"	0.166	0.000742	62.8	30-130	7.8	30	
Fluorene	0.118	0.000501	"	0.166	<0.000501	71	30-130	0.8	30	
Fluoranthene	0.14	0.000529	"	0.166	0.00121	83.6	30-130	3.6	30	
Dibenz(a,h)anthracene	0.11	0.000279	"	0.166	<0.000279	66.2	30-130	9.5	30	
Chrysene	0.131	0.000256	"	0.166	0.000704	78.4	30-130	3.8	30	
Benzo(k)fluoranthene	0.142	0.000486	"	0.166	<0.000486	85.5	30-130	8	30	
Benzo(a)anthracene	0.131	0.000441	"	0.166	0.000588	78.9	30-130	3.8	30	
Surrogate: 2-Fluorobiphenyl	66.5		"	0.332	189	66.5	33-115			
Surrogate: 4-Terphenyl-d14	77.1		"	0.332	216	77.1	33-122			
Surrogate: Nitrobenzene-d5	56.6		"	0.332	168	56.6	29-110			

MS (L 97699-MS-L558897)

Source: 97699

Prepared: 06/16/2021 Analyzed: 06/17/2021

Benzo(a)pyrene	0.131	0.000133	mg/Kg	0.165	0.000878	78.8	30-130			
Chrysene	0.126	0.000256	"	0.165	0.000704	75.9	30-130			

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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 L558897 - 3550B

MS (L 97699-MS-L558897)

Source: 97699

Prepared: 06/16/2021 Analyzed: 06/17/2021

Pyrene	0.136	0.000387	mg/Kg	0.165	0.0014	81.5	30-130
Naphthalene	0.0967	0.000467	"	0.165	<0.000467	58.6	30-130
Indeno(1,2,3-cd)pyrene	0.0971	0.000344	"	0.165	0.000742	58.3	30-130
Fluorene	0.119	0.000501	"	0.165	<0.000501	72.1	30-130
Fluoranthene	0.135	0.000529	"	0.165	0.00121	81	30-130
Dibenz(a,h)anthracene	0.1	0.000279	"	0.165	<0.000279	60.6	30-130
Benzo(b)fluoranthene	0.112	0.000138	"	0.165	0.00118	67.1	30-130
Benzo(a)anthracene	0.126	0.000441	"	0.165	0.000588	76.3	30-130
Anthracene	0.129	0.000426	"	0.165	<0.000426	78.1	30-130
Acenaphthene	0.118	0.000431	"	0.165	<0.000431	71.5	30-130
2-Methylnaphthalene	0.104	0.000542	"	0.165	<0.000542	63	30-130
1-Methylnaphthalene	0.104	0.00048	"	0.165	<0.000480	63	30-130
Benzo(k)fluoranthene	0.131	0.000486	"	0.165	<0.000486	79.3	30-130
Surrogate: Nitrobenzene-d5	53	"	"	0.33	168	53	29-110
Surrogate: 2-Fluorobiphenyl	61.8	"	"	0.33	189	61.8	33-115
Surrogate: 4-Terphenyl-d14	71.5	"	"	0.33	216	71.5	33-122

LCS (LCS-L558897)

Prepared: 06/16/2021 Analyzed: 06/17/2021

Dibenz(a,h)anthracene	0.0975	0.000279	mg/Kg	0.167		58.3	30-130
Fluoranthene	0.124	0.000529	"	0.167		74.2	30-130
Fluorene	0.112	0.000501	"	0.167		67	30-130
Indeno(1,2,3-cd)pyrene	0.0957	0.000344	"	0.167		57.3	30-130
Naphthalene	0.0964	0.000467	"	0.167		57.7	30-130
Pyrene	0.124	0.000387	"	0.167		74.2	30-130
Chrysene	0.122	0.000256	"	0.167		73	30-130
1-Methylnaphthalene	0.102	0.00048	"	0.167		61	30-130
Benzo(b)fluoranthene	0.113	0.000138	"	0.167		67.6	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 L558897 - 3550B

LCS (LCS-L558897)

Prepared: 06/16/2021 Analyzed: 06/17/2021

Benzo(a)pyrene	0.123	0.000133	mg/Kg	0.167	73.6	30-130
Benzo(a)anthracene	0.12	0.000441	"	0.167	71.8	30-130
Acenaphthene	0.112	0.000431	"	0.167	67	30-130
2-Methylnaphthalene	0.101	0.000542	"	0.167	60.4	30-130
Anthracene	0.124	0.000426	"	0.167	74.2	30-130
Benzo(k)fluoranthene	0.123	0.000486	"	0.167	73.6	30-130
Surrogate: 4-Terphenyl-d14	69.6	"	"	0.333	69.6	33-122
Surrogate: Nitrobenzene-d5	56.7	"	"	0.333	56.7	29-110
Surrogate: 2-Fluorobiphenyl	63	"	"	0.333	63	33-115

LRB (LRB-L558897)

Prepared: 06/16/2021 Analyzed: 06/17/2021

Chrysene	ND	0.00067	mg/Kg	-	-	-
Dibenz(a,h)anthracene	ND	0.00067	"	-	-	-
Fluoranthene	ND	0.00067	"	-	-	-
Fluorene	ND	0.00067	"	-	-	-
Benzo(k)fluoranthene	ND	0.00067	"	-	-	-
Naphthalene	ND	0.00067	"	-	-	-
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	-	-	-
Benzo(b)fluoranthene	ND	0.00067	"	-	-	-
Benzo(a)pyrene	ND	0.00067	"	-	-	-
Benzo(a)anthracene	ND	0.00067	"	-	-	-
Acenaphthene	ND	0.00067	"	-	-	-
2-Methylnaphthalene	ND	0.00067	"	-	-	-
1-Methylnaphthalene	ND	0.00067	"	-	-	-
Pyrene	ND	0.00067	"	-	-	-
Anthracene	ND	0.00067	"	-	-	-
Surrogate: 4-Terphenyl-d14	62.7	"	"	0.333	62.7	33-122

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

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 L558897 - 3550B

LRB (LRB-L558897)

Prepared: 06/16/2021 Analyzed: 06/17/2021

Surrogate: Nitrobenzene-d5	69.9	mg/Kg	0.333	69.9	29-110
Surrogate: 2-Fluorobiphenyl	68.7	"	0.333	68.7	33-115

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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.
- J Estimated Value. Analyte below reported quantitation limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President