FIGURES

Figure 1: Soil Boring Soil Analytical Map

Figure 2: Soil Boring PAH Map

Figure 3: Metals in Soil Map

Figure 4: Groundwater Analytical Map

LEGEND

APPROXIMATE SCRAPE/ASSESSMENT BOUNDARIES

SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

APPROXIMATE SOIL BORING LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHLYBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHLYBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER

NA – NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

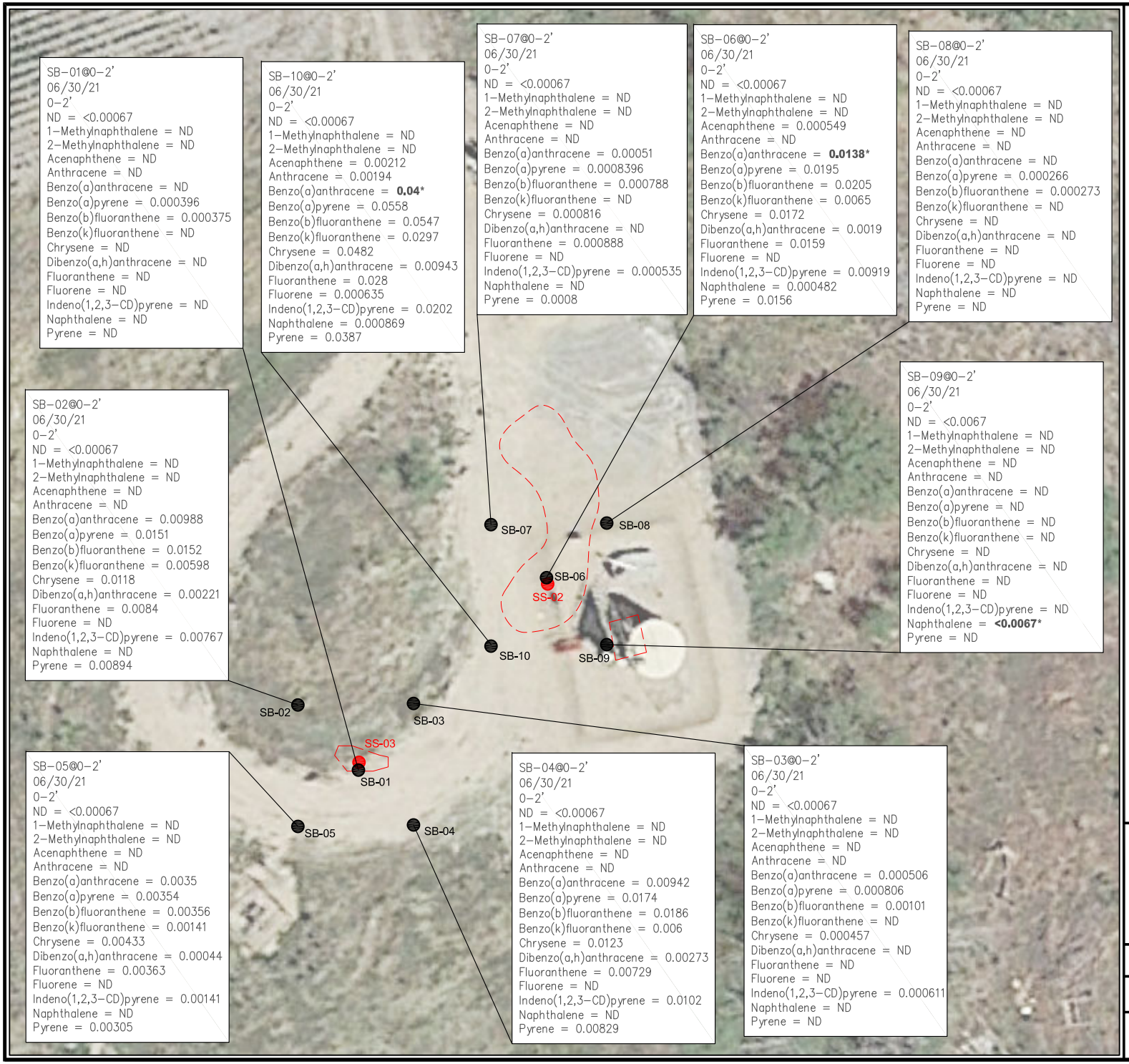
0' N 30'

APPROXIMATE SCALE IN FEET

SOIL BORING SOIL ANALYTCAL MAP
HAYES FEDERAL #31-8H5
HISTORICAL RELEASE
40.357388 / -104.699701
SE¼ NE¼ SEC.31 T5N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 480186

DATE: 07/19/21
DRAWN BY: AMN
FIG. NO. 1

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

APPROXIMATE SCRAPE/ASSESSMENT BOUNDARIES

SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

APPROXIMATE SOIL BORING LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

MDL = MINIMUM DETECTION LIMIT

ND = NON-DETECT

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY MDL AND/OR REPORTING LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION

0' N 30'

APPROXIMATE SCALE IN FEET

SOIL BORING PAH MAP
HAYES FEDERAL #31-8H5
HISTORICAL RELEASE
40.357388 / -104.699701
SE¼ NE¼ SEC.31 T5N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 480186

DATE: 07/19/21
DRAWN BY: AMN
FIG. NO. 2

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

LEGEND

APPROXIMATE SCRAPE/ASSESSMENT BOUNDARIES

SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

APPROXIMATE SOIL BORING LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NA = NOT ANALYZED

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 "PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS" FOR THAT COMPOUND

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (1.02 mg/kg) BASED ON BACKGROUND*1.25.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

(NS) – NOT SAMPLED

0' N 30'

APPROXIMATE SCALE IN FEET

METALS IN SOIL MAP
HAYES FEDERAL #31-8H5
HISTORICAL RELEASE
40.357388 / -104.699701
SE¼ NE¼ SEC.31 T5N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 480186

DATE: 07/19/21
DRAWN BY: AMN
FIG. NO. 3

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

LEGEND

- APPROXIMATE SCRAPE/ASSESSMENT BOUNDARIES
- SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS
- APPROXIMATE TEMPORARY WELL LOCATIONS

PARAMETERS

GROUNDWATER SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)
N = NAPHTHALENE (µg/L)
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)

µg/L = MILLIGRAMS PER LITER

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT

VALUES PRESENTED IN **BOLD** EXCEED THE COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

0' N 30'

APPROXIMATE SCALE IN FEET

GROUNDWATER ANALYTICAL MAP
HAYES FEDERAL #31-8H5
HISTORICAL RELEASE
40.357388 / -104.699701
SE¼ NE¼ SEC.31 T5N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 480186

DATE: 07/19/21
DRAWN BY: AMN
FIG. NO. 4

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

ATTACHMENT A

Laboratory Analytical Reports

ORIGINS LABORATORY, INC

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

THE NELAC INSTITUTE

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

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.

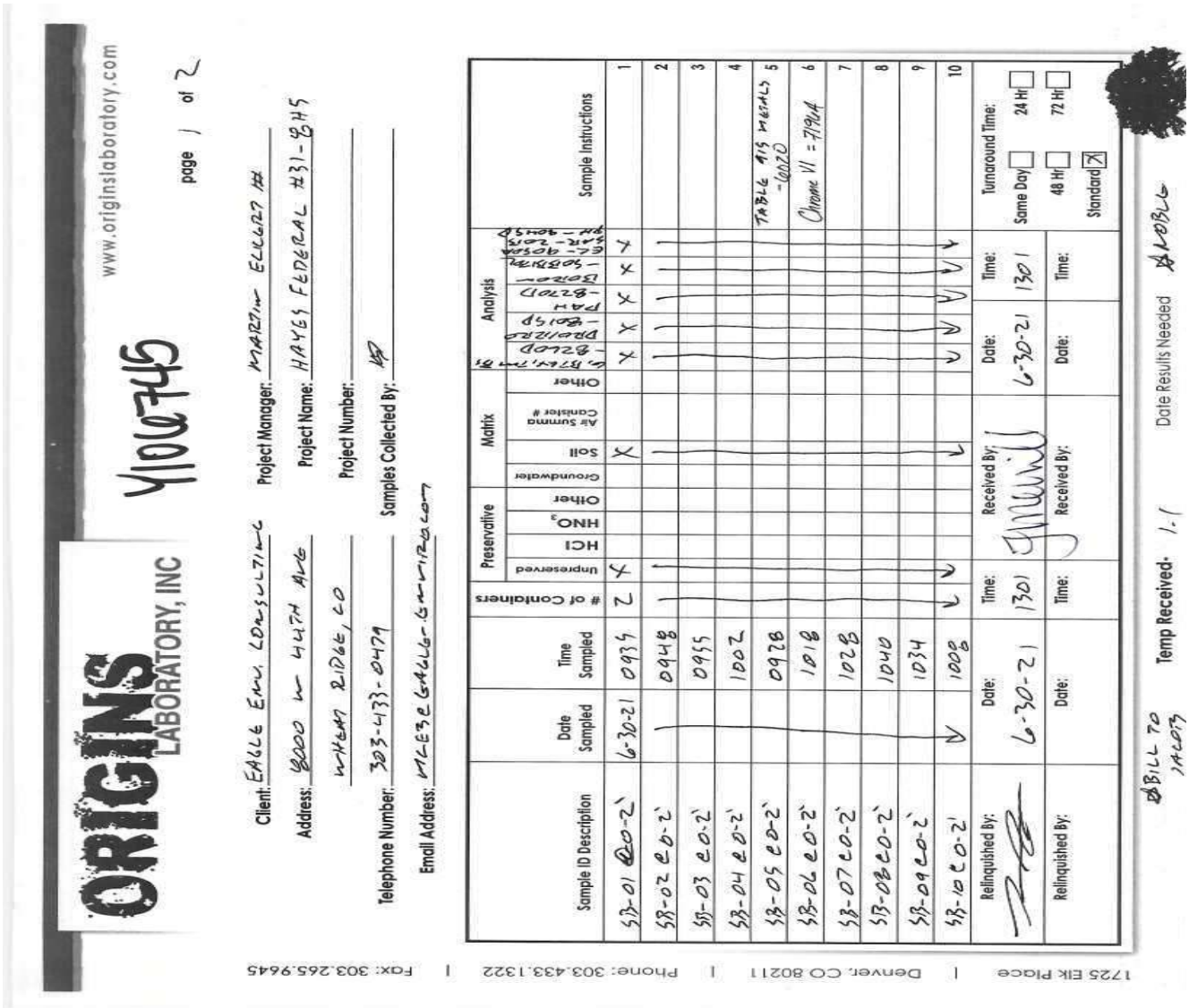
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

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, Inc.

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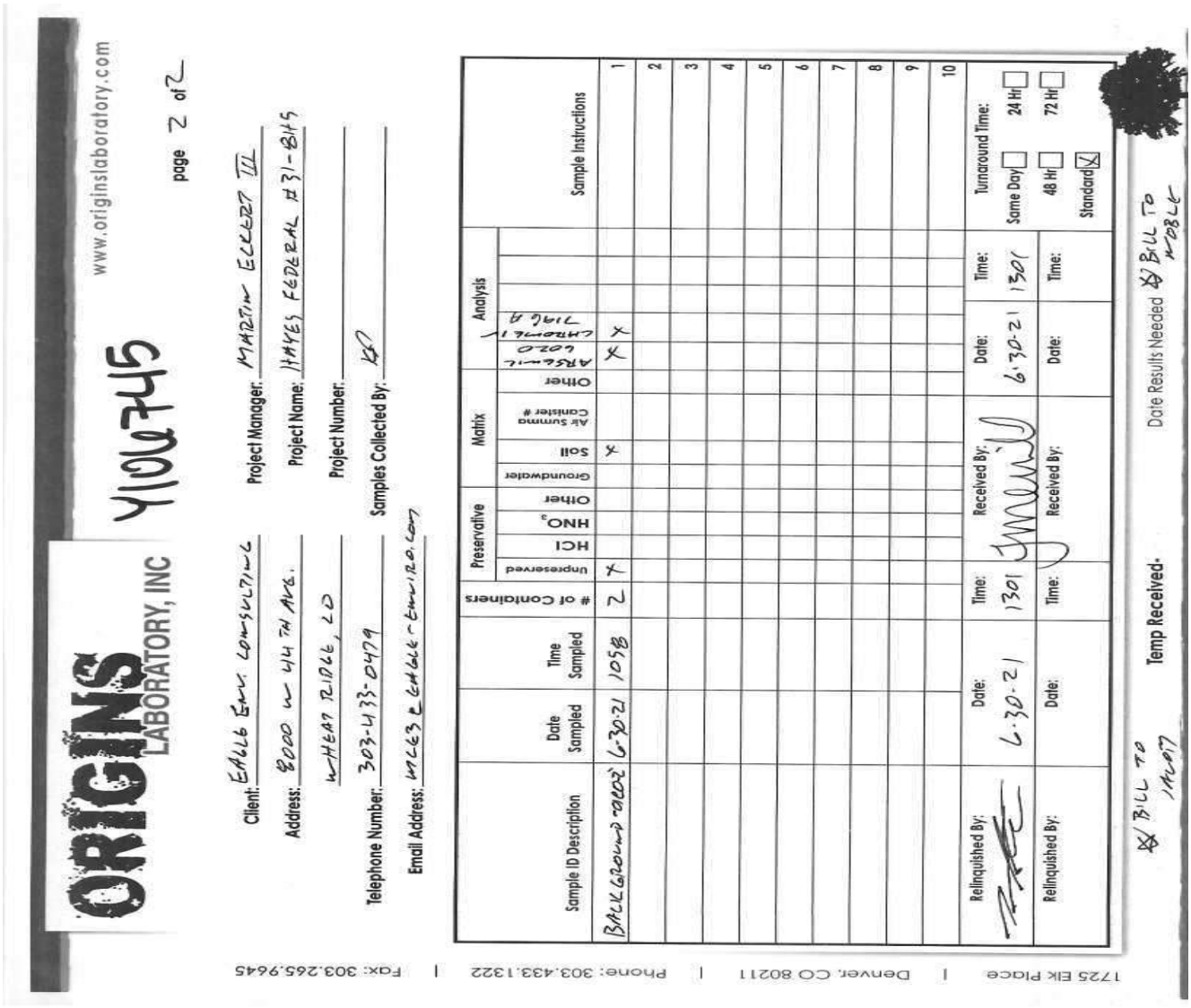
ORIGINS LABORATORY, INC

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, 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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y106745
Client: Eagle
Client Project ID: Hayes Federal 13-8H
Checklist Completed by: JG
Date/time completed: 6/30/21
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____
Cooler Number/Temperature: 1 / 1.1 °C ____ / ____ °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[1]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JM
7-1-21
Date/Time Reviewed

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

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-01@0-2'
6/30/2021 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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.

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

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-01@0-2'
6/30/2021 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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	"	"	"		"	"	

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

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-01@0-2'
6/30/2021 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**3.36**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**0.552**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021

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

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-02@0-2'
6/30/2021 9:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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

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

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-02@0-2'
6/30/2021 9:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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*	"	"	"

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-02@0-2'
6/30/2021 9:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**10.6**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**1.37**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021

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-03@0-2'
6/30/2021 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**3.35**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**0.468**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021

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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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									

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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*		*"*	*"*	*"*

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SB-04@0-2'
6/30/2021 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**8.01**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**1.69**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021

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-05@0-2'
6/30/2021 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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									

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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*			"		"	"	

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
SAR by 20B Saturated Paste									
SAR	**4.94**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	
Specific Conductance by Modified 9050A									
Specific Conductance (EC)	**1.32**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	
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

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

Total Metals by 7196A

Chromium, Hexavalent	ND	1.02	mg/Kg	2	L562355		06/30/2021	07/07/2021

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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	

SAR by 20B Saturated Paste

SAR	**3.03**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**1.20**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	

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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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									

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**6.32**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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									

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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	"	"	"		"	"	

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SAR by 20B Saturated Paste

SAR	**3.07**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**1.08**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021

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-09@0-2'
6/30/2021 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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	
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*			"		"	"	
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									

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Project: Noble - Hays Federal #31-8H5

SB-09@0-2'
6/30/2021 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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

SB-09@0-2'
6/30/2021 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Waypoint Analytical, Inc.
Y106745-09 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	*64.3 %*		*33-115*			*L562314*	*07/07/2021*	*07/07/2021*	
Surrogate: 4-Terphenyl-d14	*72.4 %*		*33-122*			*"*	*"*	*"*	
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	

SAR by 20B Saturated Paste

SAR	**2.62**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	

Specific Conductance by Modified 9050A

Specific Conductance (EC)	**0.913**	0.00500	mmhos/cm	1	B1G0123	DJL	07/01/2021	07/02/2021	

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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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	

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*			"		"	"	

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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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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-10@0-2'
6/30/2021 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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*	

pH in Soil by EPA 9045D

pH	**8.18**		pH Units	1	B1G0121	DJL	07/01/2021	07/02/2021	

SAR by 20B Saturated Paste

SAR	**7.71**		SAR	1	B1G0205	CJM	07/02/2021	07/02/2021	

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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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

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	

Total Metals by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L562355		06/30/2021	07/07/2021	

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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
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*			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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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
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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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
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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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
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
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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 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*			

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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 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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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 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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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

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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	
Batch B1G0123 - NO PREP										
Blank (B1G0123-BLK1)					Prepared: 07/01/2021 Analyzed: 07/02/2021					
Specific Conductance (EC)	0.00130	0.00500	mmhos/cm							
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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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
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
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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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
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					

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

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
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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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
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
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*			

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

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
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			

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

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
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	"				-			J
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Lead	ND	0.25	"				-			

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

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				-			

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

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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Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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. July 06, 2021. This project is associated with Origins project number Y107093-01.

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

THE NELAC INSTITUTE

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01	Y107093-01	Water	July 6, 2021 9:21	07/06/2021 12:02
SB-06	Y107093-02	Water	July 6, 2021 9:35	07/06/2021 12:02

Origins Laboratory, Inc.

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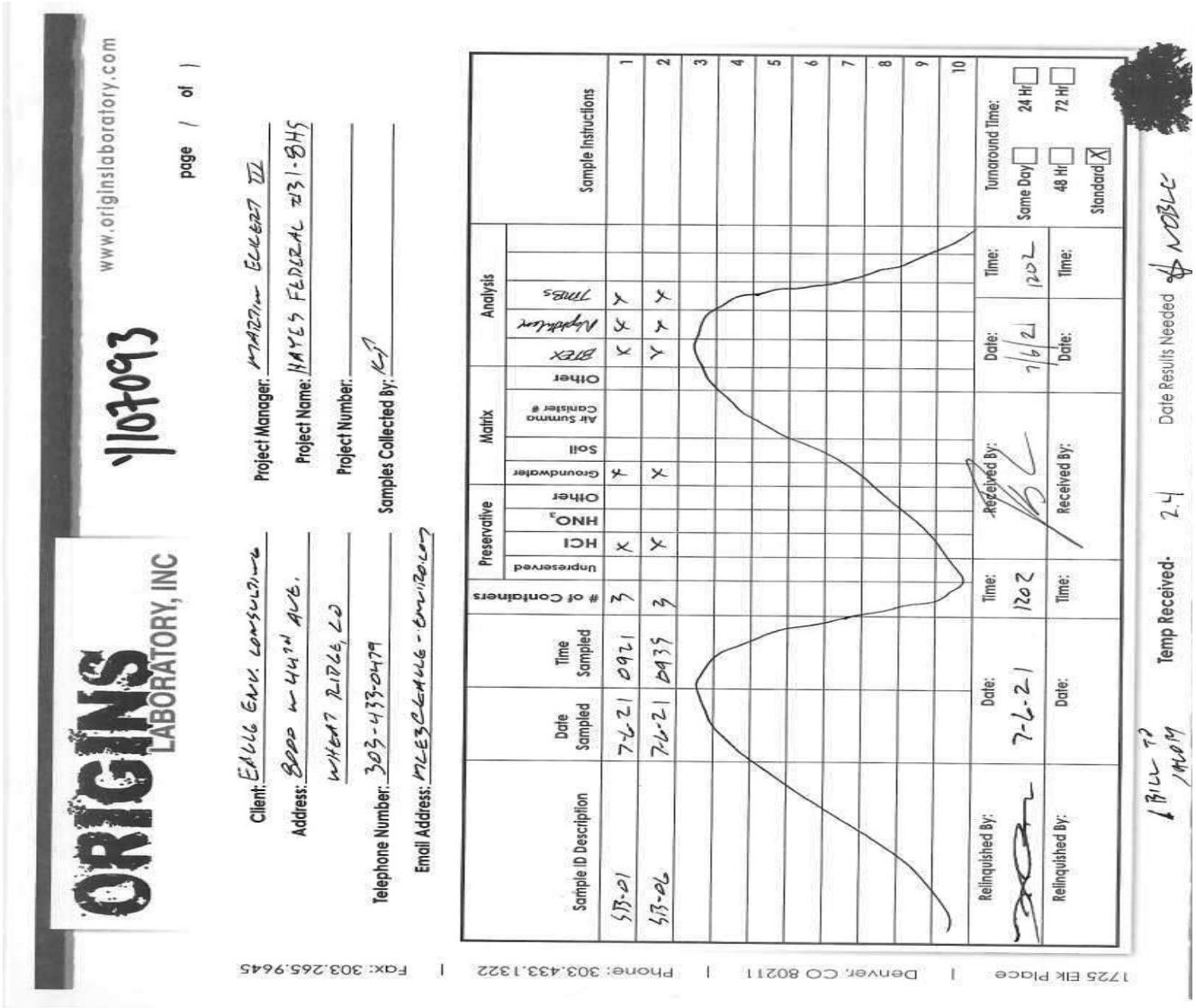
ORIGINS LABORATORY, INC

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



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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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107093
Client: Eagle
Client Project ID: Hays Federal 31-8H5

Checklist Completed by: JG
Date/time completed: 7/6/21
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ____Soil/Solid __X__Water ____Other:____

Cooler Number/Temperature: 1 / 2.4 °C ____/____ °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[1]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		✓		
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*		✓		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JM
Date/Time Reviewed 7-7-21

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-01
7/6/2021 9:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y107093-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G0709	KDK	07/07/2021	07/07/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70-130*	*"*	*"*	*"*
Surrogate: Toluene-d8	*106 %*	*70-130*	*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*76.1 %*	*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

SB-06
7/6/2021 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y107093-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G0806	KDK	07/08/2021	07/08/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70-130*	"	"	"
Surrogate: Toluene-d8	*106 %*	*70-130*	"	"	"
Surrogate: 4-Bromofluorobenzene	*75.6 %*	*70-130*	"	"	"

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

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
Batch B1G0709 - EPA 5030B (Water)										
Blank (B1G0709-BLK1)					Prepared: 07/07/2021 Analyzed: 07/07/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	*64*		"	*62.5*		*102*	*70-130*			
Surrogate: Toluene-d8	*68*		"	*62.5*		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*48*		"	*62.5*		*77.5*	*70-130*			

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
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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
Batch B1G0709 - EPA 5030B (Water)										
LCS (B1G0709-BS1)					Prepared: 07/07/2021 Analyzed: 07/07/2021					
1,2,4-Trimethylbenzene	42.5	1.00	ug/L	50.0		84.9	70-130			
1,3,5-Trimethylbenzene	40.5	1.00	"	50.0		81.1	70-130			
Benzene	42.1	1.00	"	50.0		84.2	70-130			
Ethylbenzene	51.0	1.00	"	50.0		102	70-130			
m,p-Xylene	114	2.00	"	100		114	70-130			
Naphthalene	52.9	4.00	"	50.0		106	70-130			
o-Xylene	54.7	1.00	"	50.0		109	70-130			
Toluene	52.1	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*70*		"	*62.5*		*112*	*70-130*			
Surrogate: Toluene-d8	*67*		"	*62.5*		*107*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*50*		"	*62.5*		*79.3*	*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
Batch B1G0709 - EPA 5030B (Water)										
Matrix Spike (B1G0709-MS1)		**Source: Y107080-01**			Prepared: 07/07/2021 Analyzed: 07/07/2021					
1,2,4-Trimethylbenzene	36.8	1.00	ug/L	50.0	0.470	72.7	70-130			
1,3,5-Trimethylbenzene	35.1	1.00	"	50.0	0.920	68.3	70-130			QM-07
Benzene	37.6	1.00	"	50.0	0.540	74.2	70-130			
Ethylbenzene	43.1	1.00	"	50.0	0.630	84.9	70-130			
m,p-Xylene	96.4	2.00	"	100	1.57	94.8	70-130			
Naphthalene	41.7	4.00	"	50.0	0.640	82.0	70-130			
o-Xylene	48.7	1.00	"	50.0	0.430	96.6	70-130			
Toluene	46.4	1.00	"	50.0	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*67*		"	*62.5*		*107*	*70-130*			
Surrogate: Toluene-d8	*67*		"	*62.5*		*108*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*50*		"	*62.5*		*80.2*	*70-130*			

Origins Laboratory, Inc.

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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
Batch B1G0709 - EPA 5030B (Water)										
Matrix Spike Dup (B1G0709-MSD1)		**Source: Y107080-01**			Prepared: 07/07/2021 Analyzed: 07/07/2021					
1,2,4-Trimethylbenzene	37.9	1.00	ug/L	50.0	0.470	74.8	70-130	2.79	20	
1,3,5-Trimethylbenzene	35.4	1.00	"	50.0	0.920	68.9	70-130	0.851	20	QM-07
Benzene	38.1	1.00	"	50.0	0.540	75.1	70-130	1.16	20	
Ethylbenzene	44.8	1.00	"	50.0	0.630	88.3	70-130	3.94	20	
m,p-Xylene	101	2.00	"	100	1.57	99.8	70-130	5.03	20	
Naphthalene	46.1	4.00	"	50.0	0.640	90.9	70-130	10.1	20	
o-Xylene	50.0	1.00	"	50.0	0.430	99.2	70-130	2.63	20	
Toluene	46.3	1.00	"	50.0	ND	92.7	70-130	0.259	20	
Surrogate: 1,2-Dichloroethane-d4	*68*		"	*62.5*		*109*	*70-130*			
Surrogate: Toluene-d8	*66*		"	*62.5*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*49*		"	*62.5*		*79.1*	*70-130*			

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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

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
Batch B1G0806 - EPA 5030B (Water)										
Blank (B1G0806-BLK1)					Prepared: 07/08/2021 Analyzed: 07/08/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	*66*		"	*62.5*		*106*	*70-130*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*56*		"	*62.5*		*89.4*	*70-130*			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1G0806 - EPA 5030B (Water)										
LCS (B1G0806-BS1)					Prepared: 07/08/2021 Analyzed: 07/08/2021					
1,2,4-Trimethylbenzene	46.5	1.00	ug/L	50.0		93.0	70-130			
1,3,5-Trimethylbenzene	43.7	1.00	"	50.0		87.4	70-130			
Benzene	45.2	1.00	"	50.0		90.4	70-130			
Ethylbenzene	45.7	1.00	"	50.0		91.4	70-130			
m,p-Xylene	90.9	2.00	"	100		90.9	70-130			
Naphthalene	53.5	4.00	"	50.0		107	70-130			
o-Xylene	48.9	1.00	"	50.0		97.9	70-130			
Toluene	45.6	1.00	"	50.0		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*63*		"	*62.5*		*101*	*70-130*			
Surrogate: Toluene-d8	*63*		"	*62.5*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61*		"	*62.5*		*98.1*	*70-130*			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1G0806 - EPA 5030B (Water)										
Matrix Spike (B1G0806-MS1)		**Source: Y107093-02**			Prepared: 07/08/2021 Analyzed: 07/08/2021					
1,2,4-Trimethylbenzene	108	1.00	ug/L	50.0	ND	216	70-130			QM-07
1,3,5-Trimethylbenzene	45.3	1.00	"	50.0	ND	90.7	70-130			
Benzene	54.2	1.00	"	50.0	ND	108	70-130			
Ethylbenzene	46.1	1.00	"	50.0	ND	92.2	70-130			
m,p-Xylene	93.6	2.00	"	100	ND	93.6	70-130			
Naphthalene	59.5	4.00	"	50.0	ND	119	70-130			
o-Xylene	49.9	1.00	"	50.0	ND	99.7	70-130			
Toluene	46.4	1.00	"	50.0	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*63*		"	*62.5*		*101*	*70-130*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61*		"	*62.5*		*97.1*	*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
Batch B1G0806 - EPA 5030B (Water)										
Matrix Spike Dup (B1G0806-MSD1)		**Source: Y107093-02**			Prepared: 07/08/2021 Analyzed: 07/08/2021					
1,2,4-Trimethylbenzene	107	1.00	ug/L	50.0	ND	215	70-130	0.650	20	QM-07
1,3,5-Trimethylbenzene	45.1	1.00	"	50.0	ND	90.1	70-130	0.575	20	
Benzene	53.7	1.00	"	50.0	ND	107	70-130	0.834	20	
Ethylbenzene	46.4	1.00	"	50.0	ND	92.8	70-130	0.692	20	
m,p-Xylene	92.9	2.00	"	100	ND	92.9	70-130	0.762	20	
Naphthalene	58.6	4.00	"	50.0	ND	117	70-130	1.52	20	
o-Xylene	49.7	1.00	"	50.0	ND	99.4	70-130	0.281	20	
Toluene	45.7	1.00	"	50.0	ND	91.4	70-130	1.65	20	
Surrogate: 1,2-Dichloroethane-d4	*64*		"	*62.5*		*102*	*70-130*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*98.9*	*70-130*			

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

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.

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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Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

July 19, 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. July 09, 2021. This project is associated with Origins project number Y107208-01.

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

THE NELAC INSTITUTE

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@0-2'	Y107208-01	Soil	June 30, 2021 10:58	07/09/2021 14:49

Origins Laboratory, Inc.

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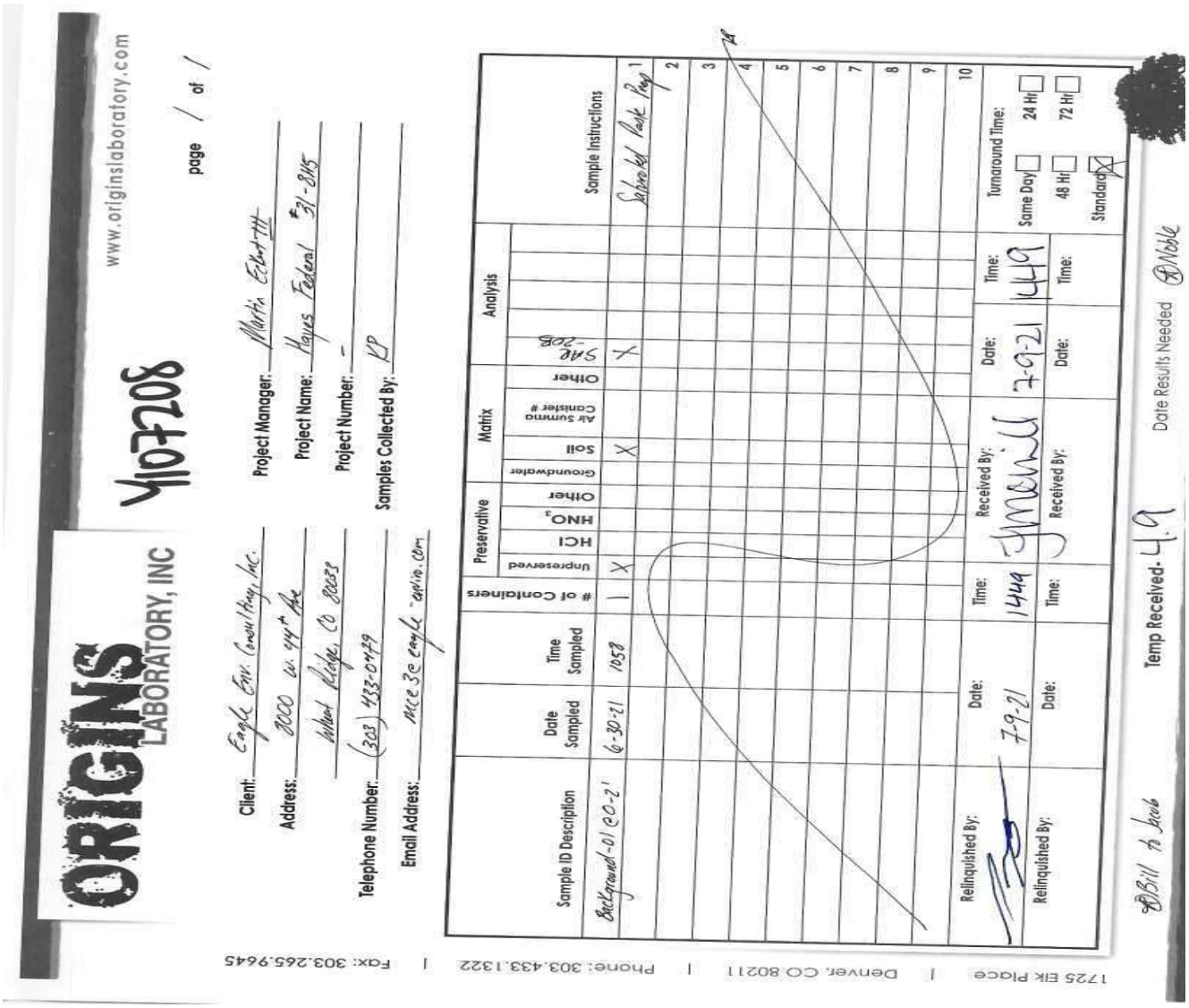
Jordan A. Merrill For Noelle Doyle Mathis, President

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, 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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4107208
Client: Eagle / Noble
Client Project ID: Hayes Federal
Checklist Completed by: JM
Date/time completed: 7-12-21
Shipped Via: HD
Airbill #: N/A (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____
Cooler Number/Temperature: 1 4.9 °C ____/____ °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[1]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
Are samples preserved that require preservation and was it checked[1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			X	
Additional Comments (if any):				

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

JM
Reviewed by (Project Manager)

7-13-21
Date/Time Reviewed

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

Background-01@0-2'
6/30/2021 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y107208-01 (Soil)

Metals by Saturated Paste

Calcium	**2.16**	0.0499	meq/L	1	[CALC]	CJM	07/14/2021	07/14/2021	
Magnesium	**1.10**	0.0823	"	"	"	CJM	"	"	
Sodium	**0.458**	0.0435	"	"	"	CJM	"	"	

SAR by 20B Saturated Paste

SAR	**0.359**		SAR	"	B1G1322	CJM	"	"	

Origins Laboratory, Inc.

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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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

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

Notes and Definitions

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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