



March 27, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRR 39 Pan Am G #1 Project Number - [none]

Attached are your analytical results for Noble - UPRR 39 Pan Am G #1 received by Origins Laboratory, Inc. March 20, 2023. This project is associated with Origins project number Y303469-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - UPRR 39 Pan Am G #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-02@3'	Y303469-01	Soil	March 20, 2023 10:12	03/20/2023 12:24
EX-SS-03@3'	Y303469-02	Soil	March 20, 2023 10:13	03/20/2023 12:24
EX-SS-04@3'	Y303469-03	Soil	March 20, 2023 10:14	03/20/2023 12:24
EX-SS-05@3'	Y303469-04	Soil	March 20, 2023 10:25	03/20/2023 12:24
EX-FS-01@4'	Y303469-05	Soil	March 20, 2023 10:15	03/20/2023 12:24

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - UPRR 39 Pan Am G #1

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Bill to Dan

Temp Received: 5

Date Results Needed

Noble

Sample ID/Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater		
EX-SS-0203'	03/10/13	10:12	2	X						
EX-SS-0303'	10/13							X	OTHER	
EX-SS-0403'	10/14							X	OTHER	
EX-SS-0503'	10/15							X	OTHER	
EX-PS-0104'	10/15							X	OTHER	

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: MCE@EAGLE-DENVER.COM

Project Manager: Martin Eckert III  
Project Name: UPRR 39 Pan Am G #1  
Project Number: [none]  
Samples Collected By: [initials]

# ORIGINS LABORATORY, INC

1303HQ

www.originslaboratory.com

page 1 of 1

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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# ORIGINS

LABORATORY, INC

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4303469

Client: Eagle

Client/Project ID: UPRR 39 Pan Am G #1

Checklist Completed by: ELH

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

Date/time completed: 3/20/23

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: L150 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH > 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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.

[Signature]  
 Reviewed by (Project Manager)

3/20/23  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-02@3'**  
**3/20/2023 10:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 86.2% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 89.8% 70-130 " " " "  
 Surrogate: Toluene-d8 98.4% 70-130 " " " "  
 Surrogate: 4-Bromofluorobenzene 106% 70-130 " " " "

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**EX-SS-02@3'**  
**3/20/2023 10:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303469-01 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	<b>0.000522</b>	<b>0.000468</b>	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.2 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	64.5 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	52.3 %		29-110	"	"	"	"	"	"

Origins Laboratory, Inc.



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**EX-SS-02@3'**  
**3/20/2023 10:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-01 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	0.0918		0.0858	mg/kg	10	B3C2020	03/20/2023	03/20/2023	
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**EX-SS-03@3'**  
**3/20/2023 10:13:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.8% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.0% 70-130 " " " "  
 Surrogate: Toluene-d8 100% 70-130 " " " "  
 Surrogate: 4-Bromofluorobenzene 103% 70-130 " " " "

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 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-03@3'**  
**3/20/2023 10:13:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303469-02 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	<b>0.000551</b>	<b>0.000468</b>	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.6 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	53.2 %		29-110	"	"	"	"	"	"

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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**EX-SS-03@3'**  
**3/20/2023 10:13:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-02 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.0882	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



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Martin C Eckert III  
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 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-04@3'**  
**3/20/2023 10:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 86.5% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.7% 70-130 " " " "  
 Surrogate: Toluene-d8 97.8% 70-130 " " " "  
 Surrogate: 4-Bromofluorobenzene 106% 70-130 " " " "

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-04@3'**  
**3/20/2023 10:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303469-03 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	<b>0.000747</b>	<b>0.000468</b>	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	<b>0.000569</b>	<b>0.000394</b>	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.7 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	53.7 %		29-110	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Wheat Ridge CO 80033

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 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-04@3'**  
**3/20/2023 10:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-03 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.0925	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



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**EX-SS-05@3'**  
**3/20/2023 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 87.7% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.1% 70-130 " " " "  
 Surrogate: Toluene-d8 98.7% 70-130 " " " "  
 Surrogate: 4-Bromofluorobenzene 103% 70-130 " " " "

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-05@3'**  
**3/20/2023 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303469-04 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00113	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	J
2-Methylnaphthalene	0.00316	0.00194	0.00201	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	0.00147	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	0.00211	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	0.00176	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	0.00141	0.000437	0.00067	"	"	"	"	"	"
Chrysene	0.00229	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	0.0044	0.000394	0.00067	"	"	"	"	"	"
Fluorene	0.00044	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00123	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.00372	0.000643	0.00067	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	50.9 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	61.9 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %		29-110			"	"	"	"

**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**EX-SS-05@3'**  
**3/20/2023 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303469-04 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.0950	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4  
 3/20/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y303469-05 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.5% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.499		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.0%		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	99.0%		70-130	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102%		70-130	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4  
 3/20/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303469-05 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.9 %		33-115						
Surrogate: 4-Terphenyl-d14	75 %		33-122						
Surrogate: Nitrobenzene-d5	64.5 %		29-110						

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4'

3/20/2023 10:15:00AM

Origins Laboratory, Inc.  
 Y303469-05 (Soil)

**Table 915 metals by EPA 6020B**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Selenium	ND		0.0937	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2022 - EPA 3580

Blank (B3C2022-BLK1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.9	50-150			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2022 - EPA 3580

LCS (B3C2022-BS1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

Diesel (C10-C28)	919	50.0	mg/kg	1000		91.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2022 - EPA 3580

Matrix Spike (B3C2022-MS1)

Source: Y303470-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.7	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2022 - EPA 3580

Matrix Spike Dup (B3C2022-MSD1)

Source: Y303470-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	15.1	35	
Residual Range Organics (C28-C40)	980	200	"	1000	ND	98.0	70-130	0.186	35	
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C2023 - EPA 5030 (soil)**

Prepared: 03/20/2023 Analyzed: 03/20/2023

**Blank (B3C2023-BLK1)**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2023 - EPA 5030 (soil)

LCS (B3C2023-BS1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100		84.2	70-130			
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100		85.1	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Naphthalene	0.0881	0.00380	"	0.100		88.1	70-130			
Toluene	0.0910	0.00200	"	0.100		91.0	70-130			
o-Xylene	0.0841	0.00200	"	0.100		84.1	70-130			
m,p-Xylene	0.179	0.00400	"	0.200		89.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2023 - EPA 5030 (soil)

Matrix Spike (B3C2023-MS1)

Source: Y303468-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.0857	0.00380	"	0.100	ND	85.7	70-130			
Toluene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2023 - EPA 5030 (soil)

Matrix Spike Dup (B3C2023-MSD1)

Source: Y303468-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	5.99	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	4.39	20	
Benzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.78	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	4.87	20	
Naphthalene	0.0928	0.00380	"	0.100	ND	92.8	70-130	7.91	20	
Toluene	0.0844	0.00200	"	0.100	ND	84.4	70-130	5.15	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	4.74	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	7.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C2020 - EPA 3050B**

**Blank (B3C2020-BLK1)**

Prepared: 03/20/2023 Analyzed: 03/20/2023

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

**LCS (B3C2020-BS1)**

Prepared: 03/20/2023 Analyzed: 03/20/2023

Arsenic	0.0517	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.10	0.0100	"	5.00		102	80-120			
Cadmium	0.0493	0.000100	"	0.0500		98.7	80-120			
Copper	0.509	0.0100	"	0.500		102	80-120			
Lead	0.0509	0.0100	"	0.0500		102	80-120			
Nickel	0.0583	0.0100	"	0.0500		117	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.6	80-120			
Silver	0.0498	0.000100	"	0.0500		99.5	80-120			
Zinc	0.530	0.100	"	0.500		106	80-120			

**Matrix Spike (B3C2020-MS1)**

Source: Y303469-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C2020 - EPA 3050B**

**Matrix Spike (B3C2020-MS1)**

**Source: Y303469-01**

Prepared: 03/20/2023 Analyzed: 03/20/2023

Arsenic	6.30	0.0949	mg/kg	4.75	1.92	92.4	75-125			
Barium	527	9.49	"	475	67.8	96.8	75-125			
Cadmium	4.65	0.0949	"	4.75	0.0858	96.1	75-125			
Copper	50.4	9.49	"	47.5	4.81	96.1	75-125			
Lead	9.30	9.49	"	4.75	4.81	94.5	75-125			U
Nickel	9.26	9.49	"	4.75	4.85	92.8	75-125			U
Selenium	4.35	0.0949	"	4.75	0.0918	89.7	75-125			
Silver	4.66	0.0949	"	4.75	0.0369	97.4	75-125			
Zinc	68.5	94.9	"	47.5	23.1	95.8	75-125			U

**Matrix Spike Dup (B3C2020-MSD1)**

**Source: Y303469-01**

Prepared: 03/20/2023 Analyzed: 03/20/2023

Arsenic	6.59	0.0983	mg/kg	4.91	1.92	95.0	75-125	4.45	20	
Barium	550	9.83	"	491	67.8	98.1	75-125	4.22	20	
Cadmium	4.76	0.0983	"	4.91	0.0858	95.2	75-125	2.45	20	
Copper	51.2	9.83	"	49.1	4.81	94.5	75-125	1.62	20	
Lead	9.65	9.83	"	4.91	4.81	98.5	75-125	3.75	20	U
Nickel	9.31	9.83	"	4.91	4.85	90.6	75-125	0.512	20	U
Selenium	4.54	0.0983	"	4.91	0.0918	90.6	75-125	4.37	20	
Silver	4.84	0.0983	"	4.91	0.0369	97.6	75-125	3.66	20	
Zinc	70.9	98.3	"	49.1	23.1	97.3	75-125	3.39	20	U

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L671519 - 3550B**

**MSD (L 84165-MSD-L671519)**

**Source: 84165**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Chrysene	0.117	0.00067	mg/Kg	0.162	<0.000624	72.2	30-130	15	30	
Dibenz(a,h)anthracene	0.136	0.00067	"	0.162	<0.000614	83.9	30-130	14.9	30	
Fluoranthene	0.124	0.00067	"	0.162	<0.000394	76.5	30-130	12.1	30	
Fluorene	0.119	0.00067	"	0.162	<0.000286	73.4	30-130	11.8	30	
Benzo(k)fluoranthene	0.119	0.00067	"	0.162	<0.000437	73.4	30-130	0.8	30	
Naphthalene	0.104	0.00201	"	0.162	<0.00145	64.1	30-130	11.7	30	
2-Methylnaphthalene	0.108	0.00201	"	0.162	<0.00194	66.6	30-130	12.9	30	
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.162	<0.000627	69.1	30-130	18.6	30	
Benzo(b)fluoranthene	0.0825	0.00067	"	0.162	<0.000585	50.9	30-130	22.1	30	
Benzo(a)pyrene	0.118	0.00067	"	0.162	<0.000468	72.8	30-130	11.9	30	
Benzo(a)anthracene	0.117	0.00067	"	0.162	<0.000493	72.2	30-130	11.2	30	
Anthracene	0.125	0.00067	"	0.162	<0.000334	77.1	30-130	13.4	30	
1-Methylnaphthalene	0.108	0.00201	"	0.162	<0.00109	66.6	30-130	12.1	30	
Pyrene	0.123	0.00067	"	0.162	<0.000643	75.9	30-130	12.2	30	
Acenaphthene	0.107	0.00067	"	0.162	<0.000304	66	30-130	12.2	30	
Surrogate: Nitrobenzene-d5	56.9		"	0.325	184	56.9	29-110			
Surrogate: 4-Terphenyl-d14	63.6		"	0.325	205	63.6	33-122			
Surrogate: 2-Fluorobiphenyl	56.6		"	0.325	181	56.6	33-115			

**MS (L 84165-MS-L671519)**

**Source: 84165**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Benzo(k)fluoranthene	0.12	0.00067	mg/Kg	0.165	<0.000437	72.7	30-130			
1-Methylnaphthalene	0.122	0.00201	"	0.165	<0.00109	73.9	30-130			
2-Methylnaphthalene	0.123	0.00201	"	0.165	<0.00194	74.5	30-130			
Acenaphthene	0.121	0.00067	"	0.165	<0.000304	73.3	30-130			
Anthracene	0.143	0.00067	"	0.165	<0.000334	86.6	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.165	<0.000493	79.3	30-130			
Pyrene	0.139	0.00067	"	0.165	<0.000643	84.2	30-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRR 39 Pan Am G #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L671519 - 3550B**

**MS (L 84165-MS-L671519)**

**Source: 84165**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Benzo(b)fluoranthene	0.103	0.00067	mg/Kg	0.165	<0.000585	62.4	30-130			
Chrysene	0.136	0.00067	"	0.165	<0.000624	82.4	30-130			
Dibenz(a,h)anthracene	0.158	0.00067	"	0.165	<0.000614	95.7	30-130			
Fluoranthene	0.14	0.00067	"	0.165	<0.000394	84.8	30-130			
Fluorene	0.134	0.00067	"	0.165	<0.000286	81.2	30-130			
Indeno(1,2,3-cd)pyrene	0.135	0.00067	"	0.165	<0.000627	81.8	30-130			
Naphthalene	0.117	0.00201	"	0.165	<0.00145	70.9	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.165	<0.000468	80.6	30-130			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.33	181	61.2	33-115			
Surrogate: 4-Terphenyl-d14	69		"	0.33	205	69	33-122			
Surrogate: Nitrobenzene-d5	61.8		"	0.33	184	61.8	29-110			

**LCS (LCS-L671519)**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Naphthalene	0.115	0.00201	mg/Kg	0.167		68.8	30-130			
Benzo(a)anthracene	0.132	0.00067	"	0.167		79	30-130			
Pyrene	0.137	0.00067	"	0.167		82	30-130			
Fluorene	0.136	0.00067	"	0.167		81.4	30-130			
Fluoranthene	0.14	0.00067	"	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.16	0.00067	"	0.167		95.8	30-130			
Chrysene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(k)fluoranthene	0.139	0.00067	"	0.167		83.2	30-130			
Indeno(1,2,3-cd)pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(a)pyrene	0.128	0.00067	"	0.167		76.6	30-130			
Anthracene	0.143	0.00067	"	0.167		85.6	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
2-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
1-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L671519 - 3550B**

**LCS (LCS-L671519)**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Benzo(b)fluoranthene	0.0804	0.00067	mg/Kg	0.167		48.1	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

**LRB (LRB-L671519)**

Prepared: 03/23/2023 Analyzed: 03/23/2023

Benzo(b)fluoranthene	ND	0.00067	mg/Kg							
Pyrene	ND	0.00067	"							
Naphthalene	ND	0.00201	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00201	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00201	"							
Chrysene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - UPRR 39 Pan Am G #1

### Notes and Definitions

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

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