



May 25, 2022

Eagle Environmental Consulting, Inc.

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. May 18, 2022. This project is associated with Origins project number Y205462-01.

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

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

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

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

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

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



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-10@4	Y205462-01	Soil	May 17, 2022 14:02	05/18/2022 09:30
FL-SS-11@4	Y205462-02	Soil	May 17, 2022 15:48	05/18/2022 09:30
FL-SS-14@3	Y205462-03	Soil	May 17, 2022 17:06	05/18/2022 09:30

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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: [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: Y205462 Client: Eagle
 Client Project ID: UPRR 39 Pan Am G #1

Checklist Completed by: MS Shipped Via: HD
 Date/time completed: 5/18/22 1149 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other _____
 (Describe)

Cooler Number/Temperature: 1 0.3 °C °C °C °C

Thermometer ID: T004

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/19 1313

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

FL-SS-10@4'
5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.661		0.0973	mg/L	1	B2E1910	05/19/2022	05/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 101% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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 121% 70-130 " " " "

Origins Laboratory, Inc.



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

FL-SS-10@4'
5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.51		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	0.922		0.823	"	"	"	"	"	
Sodium	6.73		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000996	0.000394	0.00067	"	"	"	"	"	

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

FL-SS-10@4'

5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.000847	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	86 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.42			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	6.11			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.21		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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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: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-11@4'
5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.704		0.101	mg/L	1	B2E1910	05/19/2022	05/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	114 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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	118 %		70-130	"	"	"	"	"	
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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: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-11@4
 5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.56		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	7.39		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000361	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000913	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000476	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00295	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000687	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0012	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00384	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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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

FL-SS-11@4'
5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00186	0.000627	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.00315	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	84.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	58.9 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.51			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	6.44			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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Origins Laboratory, Inc.



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

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

FL-SS-14@3'
 5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0978	mg/L	1	B2E1910	05/19/2022	05/20/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.1%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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	120%		70-130	"	"	"	"	"	"
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Martin C Eckert III
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 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-14@3'
 5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.40		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	0.857		0.435	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	"
Acenaphthene	0.00687	0.000304	0.00067	"	"	"	"	"	"
Anthracene	0.0224	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	0.127	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	0.0313	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	0.154	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	0.0497	0.000437	0.00067	"	"	"	"	"	"
Chrysene	0.119	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	0.471	0.000394	0.00067	"	"	"	"	"	"
Fluorene	0.00652	0.000286	0.00067	"	"	"	"	"	"

Origins Laboratory, Inc.



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

FL-SS-14@3'
 5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.135	0.000627	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.361	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.9 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	99.7 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	56.9 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.18			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	0.901			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.346		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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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: [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 B2E1801 - EPA 3580

Blank (B2E1801-BLK1)

Prepared: 05/18/2022 Analyzed: 05/19/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.1	50-150			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.
 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 B2E1801 - EPA 3580

LCS (B2E1801-BS1)

Prepared: 05/18/2022 Analyzed: 05/19/2022

Diesel (C10-C28)	987	50.0	mg/kg	1000		98.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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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 B2E1801 - EPA 3580

Matrix Spike (B2E1801-MS1)

Source: Y205434-01

Prepared: 05/18/2022 Analyzed: 05/19/2022

Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

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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 B2E1801 - EPA 3580

Matrix Spike Dup (B2E1801-MSD1)

Source: Y205434-01

Prepared: 05/18/2022 Analyzed: 05/19/2022

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	4.63	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	0.462	35	
Surrogate: o-Terphenyl	47		"	49.8		93.7	50-150			

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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 B2E1802 - EPA 5030 (soil)

Prepared: 05/18/2022 Analyzed: 05/18/2022

Blank (B2E1802-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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	114		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

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 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 B2E1802 - EPA 5030 (soil)

LCS (B2E1802-BS1)

Prepared: 05/18/2022 Analyzed: 05/18/2022

1,2,4-Trimethylbenzene	0.0992	0.00200	mg/kg	0.100		99.2	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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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 B2E1802 - EPA 5030 (soil)

Matrix Spike (B2E1802-MS1)

Source: Y205446-01

Prepared: 05/18/2022 Analyzed: 05/18/2022

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.0981	0.0100	"	0.100	ND	98.1	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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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 B2E1802 - EPA 5030 (soil)

Matrix Spike Dup (B2E1802-MSD1)

Source: Y205446-01

Prepared: 05/18/2022 Analyzed: 05/18/2022

1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100	ND	94.7	70-130	6.57	20	
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	6.41	20	
Benzene	0.0983	0.00200	"	0.100	ND	98.3	70-130	0.669	20	
Ethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	12.8	20	
Naphthalene	0.0955	0.0100	"	0.100	ND	95.5	70-130	2.64	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	4.31	20	
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130	8.53	20	
m,p-Xylene	0.186	0.00400	"	0.200	ND	92.8	70-130	12.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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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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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E1910 - Default Prep Metals

Blank (B2E1910-BLK1)

Prepared: 05/19/2022 Analyzed: 05/20/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2E1910-DUP1)

Source: Y205445-14

Prepared: 05/19/2022 Analyzed: 05/20/2022

Boron	0.0974	0.0974	mg/L		0.0971			0.292	50	
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 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E1710 - NO PREP

Blank (B2E1710-BLK1)

Prepared: 05/17/2022 Analyzed: 05/19/2022

pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U

Duplicate (B2E1710-DUP1)

Source: Y205046-03

Prepared: 05/17/2022 Analyzed: 05/19/2022

Specific Conductance (EC)	0.275	0.0300	mmhos/cm		0.299			8.28	25	
pH	8.44		pH Units		8.46			0.237	25	

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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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

MSD (L 93422-MSD-L617550)

Source: 93422

Prepared: 05/23/2022 Analyzed: 05/24/2022

2-Methylnaphthalene	0.0916	0.000645	mg/Kg	0.166	<0.000645	55.1	30-130	0.4	30	
Benzo(k)fluoranthene	0.107	0.000437	"	0.166	<0.000437	64.4	30-130	8.5	30	
1-Methylnaphthalene	0.0994	0.000364	"	0.166	<0.000364	59.8	30-130	0	30	
Pyrene	0.135	0.000643	"	0.166	<0.000643	81.3	30-130	0	30	
Naphthalene	0.0971	0.000484	"	0.166	<0.000484	58.4	30-130	0.4	30	
Indeno(1,2,3-cd)pyrene	0.173	0.000627	"	0.166	<0.000627	104	30-130	21.7	30	
Fluorene	0.113	0.000286	"	0.166	<0.000286	68	30-130	0.8	30	
Acenaphthene	0.118	0.000304	"	0.166	<0.000304	71	30-130	0.8	30	
Fluoranthene	0.136	0.000394	"	0.166	<0.000394	81.9	30-130	0.7	30	
Anthracene	0.127	0.000334	"	0.166	<0.000334	76.5	30-130	0	30	
Dibenz(a,h)anthracene	0.149	0.000614	"	0.166	<0.000614	89.7	30-130	12.8	30	
Chrysene	0.103	0.000624	"	0.166	<0.000624	62	30-130	3.8	30	
Benzo(a)anthracene	0.118	0.000493	"	0.166	<0.000493	71	30-130	4.3	30	
Benzo(b)fluoranthene	0.113	0.000585	"	0.166	<0.000585	68	30-130	0.8	30	
Benzo(a)pyrene	0.118	0.000468	"	0.166	<0.000468	71	30-130	1.7	30	
Surrogate: 2-Fluorobiphenyl	62.6		"	0.332	199	62.6	33-115			
Surrogate: 4-Terphenyl-d14	88.2		"	0.332	270	88.2	33-122			
Surrogate: Nitrobenzene-d5	57.5		"	0.332	175	57.5	29-110			

MS (L 93422-MS-L617550)

Source: 93422

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(b)fluoranthene	0.114	0.000585	mg/Kg	0.166	<0.000585	68.6	30-130			
Benzo(k)fluoranthene	0.0982	0.000437	"	0.166	<0.000437	59.1	30-130			
Benzo(a)anthracene	0.113	0.000493	"	0.166	<0.000493	68	30-130			
Anthracene	0.127	0.000334	"	0.166	<0.000334	76.5	30-130			
Acenaphthene	0.119	0.000304	"	0.166	<0.000304	71.6	30-130			
2-Methylnaphthalene	0.0912	0.000645	"	0.166	<0.000645	54.9	30-130			
Benzo(a)pyrene	0.116	0.000468	"	0.166	<0.000468	69.8	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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

MS (L 93422-MS-L617550)

Source: 93422

Prepared: 05/23/2022 Analyzed: 05/24/2022

Dibenz(a,h)anthracene	0.131	0.000614	mg/Kg	0.166	<0.000614	78.9	30-130			
Pyrene	0.135	0.000643	"	0.166	<0.000643	81.3	30-130			
Naphthalene	0.0975	0.000484	"	0.166	<0.000484	58.7	30-130			
Indeno(1,2,3-cd)pyrene	0.139	0.000627	"	0.166	<0.000627	83.7	30-130			
Fluorene	0.114	0.000286	"	0.166	<0.000286	68.6	30-130			
Fluoranthene	0.137	0.000394	"	0.166	<0.000394	82.5	30-130			
Chrysene	0.107	0.000624	"	0.166	<0.000624	64.4	30-130			
1-Methylnaphthalene	0.0994	0.000364	"	0.166	<0.000364	59.8	30-130			
Surrogate: 4-Terphenyl-d14	89.1		"	0.331	270	89.1	33-122			
Surrogate: 2-Fluorobiphenyl	63.1		"	0.331	199	63.1	33-115			
Surrogate: Nitrobenzene-d5	58		"	0.331	175	58	29-110			

LCS (LCS-L617550)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Anthracene	0.144	0.000334	mg/Kg	0.167		86.2	30-130			
Fluorene	0.129	0.000286	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.114	0.000364	"	0.167		68.2	30-130			
Pyrene	0.149	0.000643	"	0.167		89.2	30-130			
Indeno(1,2,3-cd)pyrene	0.168	0.000627	"	0.167		101	30-130			
Fluoranthene	0.151	0.000394	"	0.167		90.4	30-130			
Dibenz(a,h)anthracene	0.152	0.000614	"	0.167		91	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Acenaphthene	0.134	0.000304	"	0.167		80.2	30-130			
Naphthalene	0.111	0.000484	"	0.167		66.4	30-130			
2-Methylnaphthalene	0.105	0.000645	"	0.167		62.8	30-130			
Benzo(k)fluoranthene	0.118	0.000437	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.167		78.4	30-130			
Benzo(a)pyrene	0.128	0.000468	"	0.167		76.6	30-130			

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

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

LCS (LCS-L617550)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(b)fluoranthene	0.122	0.000585	mg/Kg	0.167	73	30-130				
Surrogate: 4-Terphenyl-d14	106		"	0.333	106	33-122				
Surrogate: Nitrobenzene-d5	67.2		"	0.333	67.2	29-110				
Surrogate: 2-Fluorobiphenyl	80.7		"	0.333	80.7	33-115				

LRB (LRB-L617550)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Chrysene	ND	0.00067	mg/Kg							
Pyrene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00067	"							
Naphthalene	ND	0.00067	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Benzo(b)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	0.00067	"							
Surrogate: Nitrobenzene-d5	66.3		"	0.333	66.3	29-110				
Surrogate: 4-Terphenyl-d14	93.9		"	0.333	93.9	33-122				
Surrogate: 2-Fluorobiphenyl	84		"	0.333	84	33-115				

Batch L617551 - 3550B

MSD (L 95740-MSD-L617551)

Source: 95740

Prepared: 05/23/2022 Analyzed: 05/24/2022

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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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

MSD (L 95740-MSD-L617551)

Source: 95740

Prepared: 05/23/2022 Analyzed: 05/24/2022

Anthracene	0.117	0.000334	mg/Kg	0.163	<0.000334	71.7	30-130	14.2	30	
Fluorene	0.108	0.000286	"	0.163	<0.000286	66.2	30-130	10.5	30	
1-Methylnaphthalene	0.0955	0.000364	"	0.163	<0.000364	58.5	30-130	9.4	30	
Pyrene	0.124	0.000643	"	0.163	<0.000643	76	30-130	14.2	30	
Indeno(1,2,3-cd)pyrene	0.0972	0.000627	"	0.163	<0.000627	59.6	30-130	48.2	30	
Fluoranthene	0.128	0.000394	"	0.163	0.000736	78	30-130	13.1	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.163	<0.000614	63.8	30-130	34.2	30	
Chrysene	0.0981	0.000624	"	0.163	<0.000624	60.1	30-130	14.9	30	
2-Methylnaphthalene	0.0874	0.000645	"	0.163	<0.000645	53.6	30-130	9.6	30	
Naphthalene	0.0916	0.000484	"	0.163	<0.000484	56.1	30-130	11.7	30	
Benzo(k)fluoranthene	0.0872	0.000437	"	0.163	<0.000437	53.4	30-130	20.3	30	
Acenaphthene	0.113	0.000304	"	0.163	<0.000304	69.3	30-130	9.2	30	
Benzo(a)anthracene	0.11	0.000493	"	0.163	<0.000493	67.4	30-130	16.6	30	
Benzo(a)pyrene	0.109	0.000468	"	0.163	<0.000468	66.8	30-130	15.2	30	
Benzo(b)fluoranthene	0.0947	0.000585	"	0.163	<0.000585	58	30-130	17.6	30	
Surrogate: Nitrobenzene-d5	54.6		"	0.326	223	54.6	29-110			
Surrogate: 2-Fluorobiphenyl	62.8		"	0.326	273	62.8	33-115			
Surrogate: 4-Terphenyl-d14	82.5		"	0.326	269	82.5	33-122			

MS (L 95740-MS-L617551)

Source: 95740

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(k)fluoranthene	0.107	0.000437	mg/Kg	0.164	<0.000437	65.2	30-130			
Acenaphthene	0.124	0.000304	"	0.164	<0.000304	75.6	30-130			
Naphthalene	0.103	0.000484	"	0.164	<0.000484	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.164	<0.000627	96.9	30-130			
Fluorene	0.12	0.000286	"	0.164	<0.000286	73.1	30-130			
Fluoranthene	0.146	0.000394	"	0.164	0.000736	88.5	30-130			
Dibenz(a,h)anthracene	0.147	0.000614	"	0.164	<0.000614	89.6	30-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.
 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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

MS (L 95740-MS-L617551)

Source: 95740

Prepared: 05/23/2022 Analyzed: 05/24/2022

Chrysene	0.114	0.000624	mg/Kg	0.164	<0.000624	69.5	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.164	<0.000364	64	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.164	<0.000468	77.4	30-130			
Anthracene	0.135	0.000334	"	0.164	<0.000334	82.3	30-130			
Pyrene	0.143	0.000643	"	0.164	<0.000643	87.1	30-130			
2-Methylnaphthalene	0.0963	0.000645	"	0.164	<0.000645	58.7	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.164	<0.000585	68.9	30-130			
Benzo(a)anthracene	0.13	0.000493	"	0.164	<0.000493	79.2	30-130			
Surrogate: Nitrobenzene-d5	64.6		"	0.328	223	64.6	29-110			
Surrogate: 4-Terphenyl-d14	97.5		"	0.328	269	97.5	33-122			
Surrogate: 2-Fluorobiphenyl	70.1		"	0.328	213	70.1	33-115			

LCS (LCS-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Chrysene	0.111	0.000624	mg/Kg	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.107	0.000614	"	0.167		64	30-130			
Fluoranthene	0.14	0.000394	"	0.167		83.8	30-130			
Fluorene	0.12	0.000286	"	0.167		71.8	30-130			
Indeno(1,2,3-cd)pyrene	0.115	0.000627	"	0.167		68.8	30-130			
Naphthalene	0.1	0.000484	"	0.167		59.8	30-130			
Benzo(k)fluoranthene	0.105	0.000437	"	0.167		62.8	30-130			
Pyrene	0.139	0.000643	"	0.167		83.2	30-130			
Benzo(a)pyrene	0.115	0.000468	"	0.167		68.8	30-130			
Benzo(a)anthracene	0.117	0.000493	"	0.167		70	30-130			
Anthracene	0.13	0.000334	"	0.167		77.8	30-130			
Acenaphthene	0.125	0.000304	"	0.167		74.8	30-130			
2-Methylnaphthalene	0.0954	0.000645	"	0.167		57.1	30-130			
1-Methylnaphthalene	0.104	0.000364	"	0.167		62.2	30-130			

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 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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

LCS (LCS-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(b)fluoranthene	0.0999	0.000585	mg/Kg	0.167		59.8	30-130			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			
Surrogate: 2-Fluorobiphenyl	79.8		"	0.333		79.8	33-115			

LRB (LRB-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333		66.9	33-115			

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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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