



November 15, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Ries #3-19

Project Number - -

Attached are your analytical results for Noble - Ries #3-19 received by Origins Laboratory, Inc. November 01, 2022. This project is associated with Origins project number Y211037-01.

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.

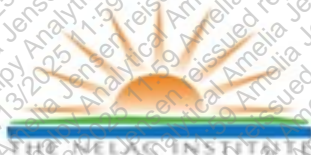
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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: -
Project: Noble - Ries #3-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y211037-01	Soil	November 1, 2022 11:33	11/01/2022 12:50

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS

LABORATORY, INC

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

Origins Laboratory Sample Receipt Checklist Effective Date: 01/09/12 F-012207-01-R1


Origins Work Order: 9211037 Client: Eagle
 Client Project ID: Ries #3-19
 Checklist Completed by: EUS Shipped Via: HD
 Date/time completed: 11/17/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 10.3°C / _____ °C / _____ °C (Describe)
 Thermometer ID: JR04

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 analyses in order to insure sample integrity) pH < 2 for samples preserved with HNO ₃ / HCl, H ₂ SO ₄ / (pH > 10 for samples preserved with NaAsO ₂ -NaOH, ZnAc ₂ -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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JB

Date/Time Reviewed 11-3-22

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Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

WH-FS-01@6'
11/1/2022 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211037-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.240		0.0998	mg/L	1	B2K0411	11/04/2022	11/07/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2K0203	11/02/2022	11/04/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.1 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2K0335	11/03/2022	11/09/2022	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	108 %		70-130	"	"	"	"	"	
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

WH-FS-01@6'
11/1/2022 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211037-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B2K03 35	11/03/2022	11/09/2022	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.12		0.499	meq/L	10	[CALC]	11/04/2022	11/08/2022	
Magnesium	0.830		0.823	"	"	"	"	"	
Sodium	3.75		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L647051	11/04/2022	11/07/2022	
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	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	ND	0.000394	0.00067	"	"	"	"	"	

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WH-FS-01@6'
11/1/2022 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211037-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L647051	11/04/2022	11/07/2022	
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	54.7 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	45.6 %		29-110			"	"	"	"

pH in Soil by 9045D


pH	8.45			pH Units	1	B2K0417	11/04/2022	11/08/2022	
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SAR by 20B Saturated Paste

SAR	3.80			SAR	1	B2K0407	11/04/2022	11/08/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.590		0.00500	mmhos/cm	1	B2K0422	11/04/2022	11/08/2022	
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Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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 B2K0203 - EPA 3580

Blank (B2K0203-BLK1)

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	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
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Batch B2K0203 - EPA 3580

LCS (B2K0203-BS1)

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	990	50.0	mg/kg	1000		99.0	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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
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Batch B2K0203 - EPA 3580

Matrix Spike (B2K0203-MS1)

Source: Y211012-01

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	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
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Batch B2K0203 - EPA 3580

Matrix Spike Dup (B2K0203-MSD1)

Source: Y211012-01

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	7.52	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	3.00	35	
Surrogate: o-Terphenyl	48		"	49.8		97.0	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
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Batch B2K0335 - EPA 5030 (soil)

Blank (B2K0335-BLK1)

Prepared: 11/03/2022 Analyzed: 11/08/2022

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	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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
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Batch B2K0335 - EPA 5030 (soil)

LCS (B2K0335-BS1)

Prepared: 11/03/2022 Analyzed: 11/08/2022

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	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	0.13		"	0.125		102	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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 Project: Noble - Ries #3-19

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 B2K0335 - EPA 5030 (soil)

Matrix Spike (B2K0335-MS1)

Source: Y211016-01

Prepared: 11/03/2022 Analyzed: 11/08/2022

1,2,4-Trimethylbenzene	0.0794	0.00200	mg/kg	0.100	ND	79.4	70-130			
1,3,5-Trimethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Benzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130			
Naphthalene	0.0842	0.00380	"	0.100	ND	84.2	70-130			
Toluene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	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
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Batch B2K0335 - EPA 5030 (soil)

Matrix Spike Dup (B2K0335-MSD1)

Source: Y211016-01

Prepared: 11/03/2022 Analyzed: 11/08/2022

1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100	ND	98.8	70-130	21.8	20	QR-02
1,3,5-Trimethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	22.6	20	QR-02
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	15.7	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	18.8	20	
Naphthalene	0.0979	0.00380	"	0.100	ND	97.9	70-130	15.0	20	
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130	17.2	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	19.0	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130	19.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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
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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 B2K0407 - Saturated Paste Metals

Blank (B2K0407-BLK1)

Prepared: 11/04/2022 Analyzed: 11/08/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B2K0407-DUP1)

Source: Y211018-13

Prepared: 11/04/2022 Analyzed: 11/08/2022

Calcium PPM	37.2	10.0	mg/L		38.2		2.72	50		
SAR	0.00		SAR		4.01		200	200		
Magnesium PPM	16.5	10.0	mg/L		17.1		3.49	50		
Sodium PPM	115	10.0	"		119		2.86	50		

Batch B2K0411 - DTPA Sorbitol Preparation

Blank (B2K0411-BLK1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	ND	0.100	mg/L							
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Duplicate (B2K0411-DUP1)

Source: Y211018-21

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	0.543	0.100	mg/L		0.414		26.9	50		
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0417 - NO PREP

Duplicate (B2K0417-DUP1)

Source: Y211018-13

Prepared: 11/04/2022 Analyzed: 11/08/2022

pH 8.32 pH Units 8.34 0.240 25

Batch B2K0422 - Default Prep GenChem

Blank (B2K0422-BLK1)

Prepared: 11/04/2022 Analyzed: 11/08/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B2K0422-DUP1)

Source: Y211018-13

Prepared: 11/04/2022 Analyzed: 11/08/2022

Specific Conductance (EC) 0.920 0.00500 mmhos/cm 0.940 2.20 25

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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 L647051 - 3550B

MSD (L 86388-MSD-L647051)

Source: 86388

Prepared: 11/04/2022 Analyzed: 11/07/2022

2-Methylnaphthalene	0.0877	0.00201	mg/Kg	0.166	<0.00194	52.8	30-130	12.3	30	
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130	36.7	30	*
Pyrene	0.0816	0.00067	"	0.166	<0.000643	49.1	30-130	39.6	30	*
Indeno(1,2,3-cd)pyrene	0.11	0.00067	"	0.166	<0.000627	66.2	30-130	9.8	30	
Fluoranthene	0.0823	0.00067	"	0.166	<0.000394	49.5	30-130	33.1	30	*
Dibenz(a,h)anthracene	0.121	0.00067	"	0.166	<0.000614	72.8	30-130	4.2	30	
Chrysene	0.0985	0.00067	"	0.166	<0.000624	59.3	30-130	8.7	30	
Naphthalene	0.0832	0.00201	"	0.166	<0.00145	50.1	30-130	11.7	30	
1-Methylnaphthalene	0.0889	0.00201	"	0.166	<0.00109	53.5	30-130	13.8	30	
Benzo(k)fluoranthene	0.0952	0.00067	"	0.166	<0.000437	57.3	30-130	6.9	30	
Acenaphthene	0.0901	0.00067	"	0.166	<0.000304	54.2	30-130	12.6	30	
Anthracene	0.0921	0.00067	"	0.166	<0.000334	55.4	30-130	5.1	30	
Benzo(a)anthracene	0.0969	0.00067	"	0.166	<0.000493	58.3	30-130	7.6	30	
Benzo(a)pyrene	0.122	0.00067	"	0.166	<0.000468	73.4	30-130	11.2	30	
Benzo(b)fluoranthene	0.0937	0.00067	"	0.166	<0.000585	56.4	30-130	5.4	30	
Surrogate: 2-Fluorobiphenyl	51.8		"	0.332	161	51.8	33-115			
Surrogate: Nitrobenzene-d5	50		"	0.332	143	50	29-110			
Surrogate: 4-Terphenyl-d14	46.3		"	0.332	182	46.3	33-122			

MS (L 86388-MS-L647051)

Source: 86388

Prepared: 11/04/2022 Analyzed: 11/07/2022

Benzo(k)fluoranthene	0.0888	0.00067	mg/Kg	0.164	<0.000437	54.1	30-130			
Acenaphthene	0.0794	0.00067	"	0.164	<0.000304	48.4	30-130			
Naphthalene	0.074	0.00201	"	0.164	<0.00145	45.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0997	0.00067	"	0.164	<0.000627	60.7	30-130			
Fluorene	0.0834	0.00067	"	0.164	<0.000286	50.8	30-130			
Fluoranthene	0.115	0.00067	"	0.164	<0.000394	70.1	30-130			
Dibenz(a,h)anthracene	0.116	0.00067	"	0.164	<0.000614	70.7	30-130			

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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 L647051 - 3550B

MS (L 86388-MS-L647051)

Source: 86388

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chrysene	0.0902	0.00067	mg/Kg	0.164	<0.000624	55	30-130			
1-Methylnaphthalene	0.0774	0.00201	"	0.164	<0.00109	47.1	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.164	<0.000468	66.4	30-130			
Anthracene	0.0875	0.00067	"	0.164	<0.000334	53.3	30-130			
Pyrene	0.122	0.00067	"	0.164	<0.000643	74.3	30-130			
2-Methylnaphthalene	0.0775	0.00201	"	0.164	<0.00194	47.2	30-130			
Benzo(b)fluoranthene	0.0887	0.00067	"	0.164	<0.000585	54	30-130			
Benzo(a)anthracene	0.0898	0.00067	"	0.164	<0.000493	54.7	30-130			
Surrogate: Nitrobenzene-d5	40.8		"	0.328	143	40.8	29-110			
Surrogate: 4-Terphenyl-d14	71.6		"	0.328	182	71.6	33-122			
Surrogate: 2-Fluorobiphenyl	45.4		"	0.328	167	45.4	33-115			

LCS (LCS-L647051)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chrysene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluoranthene	0.104	0.00067	"	0.167		62.2	30-130			
Fluorene	0.0943	0.00067	"	0.167		56.4	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.00067	"	0.167		65.2	30-130			
Naphthalene	0.0857	0.00201	"	0.167		51.3	30-130			
Benzo(k)fluoranthene	0.0978	0.00067	"	0.167		58.5	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.0963	0.00067	"	0.167		57.6	30-130			
Anthracene	0.0986	0.00067	"	0.167		59	30-130			
Acenaphthene	0.0874	0.00067	"	0.167		52.3	30-130			
2-Methylnaphthalene	0.0874	0.00201	"	0.167		52.3	30-130			
1-Methylnaphthalene	0.0882	0.00201	"	0.167		52.8	30-130			

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PAH by 8270D SIM - Quality Control
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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 L647051 - 3550B

LCS (LCS-L647051)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Benzo(b)fluoranthene	0.107	0.00067	mg/Kg	0.167	64	30-130				
Surrogate: Nitrobenzene-d5	48.6		"	0.333	48.6	29-110				
Surrogate: 4-Terphenyl-d14	63		"	0.333	63	33-122				
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333	53.7	33-115				

LRB (LRB-L647051)

Prepared: 11/04/2022 Analyzed: 11/07/2022

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	0.00201	"							
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	0.00201	"							
1-Methylnaphthalene	ND	0.00201	"							
Pyrene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	48		"	0.333	48	29-110				
Surrogate: 4-Terphenyl-d14	58.2		"	0.333	58.2	33-122				
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333	53.4	33-115				

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Martin C Eckert III
Project Number: -
Project: Noble - Ries #3-19

Notes and Definitions

- U Sample is Non-Detect.
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - * QC Failure
 - 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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