



July 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. June 16, 2022. This project is associated with Origins project number Y206424-01.

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y206424-01	Soil	June 16, 2022 11:38	06/16/2022 14:06

Chain of Custody Modification Request

On 6/28/2022, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y206424 requesting that Table 915 Metals be added.

Requested modifications to the chain of custody were made by Jordan Bynon on 6/28/2022.

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8


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

Origins Work Order: 1700424 Client: EQAC
 Client Project ID: PTF C 32-8
 Checklist Completed by: SKH Shipped Via: FD
 Date/time completed: 01/17/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: ANA
 Matrix(s) Received: (Check all that apply) 1 Soil/Solid Water Other
 Cooler Number/Temperature: 154°C / °C / °C (Describe)
 Thermometer ID: 1001

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>same day</u>
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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-NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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: JB (Project Manager) Date/Time Reviewed: 01-18-22

Origins Laboratory, Inc.


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Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

WH-FS-01@7'
6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206424-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.588		0.100	mg/L	1	B2F2010	06/20/2022	06/21/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	682		25.0	mg/kg	1	B2F2003	06/20/2022	06/24/2022	
Residual Range Organics (C28-C40)	2500		100	"	"	"	"	"	

Surrogate: o-Terphenyl	65.6 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F2120	06/21/2022	06/22/2022	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	92.0 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	88.8 %		70-130	"	"	"	"	"	

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WH-FS-01@7'
 6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206424-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	104 %	70-130		B2F21 20	06/21/2022	06/22/2022
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Metals by Saturated Paste by EPA 6010

Calcium	45.7	4.99	meq/L	100	[CALC]	06/21/2022	06/22/2022
Magnesium	3.97	0.823	"	10	"	"	"
Sodium	2.18	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L622533	06/20/2022	06/22/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
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	"	"	"	"	"

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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206424-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L622533	06/20/2022	06/22/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.7 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	51.4 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	53.5 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.26			pH Units	1	B2F2114	06/21/2022	06/22/2022	
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SAR by 20B Saturated Paste


SAR	0.438			SAR	1	B2F2110	06/21/2022	06/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.76		0.00500	mmhos/cm	1	B2F2114	06/21/2022	06/22/2022	
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Table 915 metals by EPA 6020B

Arsenic	1.76		0.00100	mg/kg	1	B2F2822	06/28/2022	06/28/2022	
Barium	50.1		0.100	"	"	"	"	"	"

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Origins Laboratory, Inc.
Y206424-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0604		0.00100	mg/kg	1	B2F2822	06/28/2022	06/28/2022	
Copper	17.7		0.0100	"	"	"	"	"	
Lead	10.3		0.00100	"	"	"	"	"	
Nickel	4.16		0.00100	"	"	"	"	"	
Selenium	0.0989		0.00100	"	"	"	"	"	
Silver	0.0127		0.00100	"	"	"	"	"	
Zinc	36.4		0.100	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L624630	06/16/2022	07/01/2022	
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 Project Number: -
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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 B2F2003 - EPA 3580

Prepared: 06/20/2022 Analyzed: 06/24/2022

Blank (B2F2003-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.4	50-150			

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Jordan A. Bynon, Project Manager



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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 B2F2003 - EPA 3580

LCS (B2F2003-BS1)

Prepared: 06/20/2022 Analyzed: 06/24/2022

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	827	200	"	1000		82.7	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	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 B2F2003 - EPA 3580

Matrix Spike (B2F2003-MS1)

Source: Y206403-11

Prepared: 06/20/2022 Analyzed: 06/24/2022

Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	70-130			
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	70-130			
Surrogate: o-Terphenyl	39		"	49.8		77.9	50-150			

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Jordan A. Bynon, Project Manager



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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 B2F2003 - EPA 3580

Matrix Spike Dup (B2F2003-MSD1)

Source: Y206403-11

Prepared: 06/20/2022 Analyzed: 06/24/2022

Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130	0.196	35	
Residual Range Organics (C28-C40)	824	200	"	1000	ND	82.4	70-130	0.212	35	
Surrogate: o-Terphenyl	37		"	49.8		75.0	50-150			

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Jordan A. Bynon, Project Manager



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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 B2F2120 - EPA 5030 (soil)

Prepared: 06/21/2022 Analyzed: 06/22/2022

Blank (B2F2120-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	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 B2F2120 - EPA 5030 (soil)

LCS (B2F2120-BS1)

Prepared: 06/21/2022 Analyzed: 06/22/2022

1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100		98.8	70-130			
1,3,5-Trimethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Naphthalene	0.108	0.0100	"	0.100		108	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
o-Xylene	0.0987	0.00200	"	0.100		98.7	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Jordan A. Bynon, Project Manager



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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 B2F2120 - EPA 5030 (soil)

Matrix Spike (B2F2120-MS1)

Source: Y206424-01

Prepared: 06/21/2022 Analyzed: 06/22/2022

1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0983	0.00200	"	0.100	ND	98.3	70-130			
Benzene	0.107	0.00200	"	0.100	0.000480	107	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0865	0.0100	"	0.100	0.00122	85.3	70-130			
Toluene	0.0982	0.00200	"	0.100	0.00126	97.0	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	0.000620	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Jordan A. Bynon, Project Manager



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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 B2F2120 - EPA 5030 (soil)

Matrix Spike Dup (B2F2120-MSD1)

Source: Y206424-01

Prepared: 06/21/2022 Analyzed: 06/22/2022

1,2,4-Trimethylbenzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130	9.15	20	
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130	10.1	20	
Benzene	0.106	0.00200	"	0.100	0.000480	106	70-130	0.880	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	6.26	20	
Naphthalene	0.0844	0.0100	"	0.100	0.00122	83.2	70-130	2.43	20	
Toluene	0.0954	0.00200	"	0.100	0.00126	94.1	70-130	2.95	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	6.85	20	
m,p-Xylene	0.208	0.00400	"	0.200	0.000620	104	70-130	6.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 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 B2F2822 - Default Prep Metals

Blank (B2F2822-BLK1)

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.100	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

LCS (B2F2822-BS1)

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	0.0431	0.00100	mg/kg	0.0500		86.3	80-120			
Barium	4.99	0.100	"	5.00		99.9	80-120			
Cadmium	0.0501	0.00100	"	0.0500		100	80-120			
Copper	0.464	0.0100	"	0.500		92.8	80-120			
Lead	0.0500	0.00100	"	0.0500		100	80-120			
Nickel	0.0532	0.00100	"	0.0500		106	80-120			
Selenium	0.0460	0.00100	"	0.0500		92.0	80-120			
Silver	0.0480	0.00100	"	0.0500		95.9	80-120			
Zinc	0.448	0.100	"	0.500		89.7	80-120			

Matrix Spike (B2F2822-MS1)

Source: Y206235-01

Prepared: 06/28/2022 Analyzed: 06/28/2022

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

Metals by SM 3500 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 B2F2822 - Default Prep Metals

Matrix Spike (B2F2822-MS1)

Source: Y206235-01

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	6.64	0.00100	mg/kg	4.32	2.39	98.6	75-125			
Barium	502	0.100	"	432	49.2	105	75-125			
Cadmium	4.79	0.00100	"	4.32	0.390	102	75-125			
Copper	54.8	0.0100	"	43.2	12.0	99.1	75-125			
Lead	27.7	0.00100	"	4.32	13.7	325	75-125			QM-07, QR-DUP
Nickel	9.89	0.00100	"	4.32	4.26	130	75-125			QM-07
Selenium	4.08	0.00100	"	4.32	0.102	92.2	75-125			
Silver	4.25	0.00100	"	4.32	0.123	95.5	75-125			
Zinc	92.9	0.100	"	43.2	46.4	108	75-125			

Matrix Spike Dup (B2F2822-MSD1)

Source: Y206235-01

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	6.28	0.00100	mg/kg	4.30	2.39	90.6	75-125	5.58	20	
Barium	480	0.100	"	430	49.2	100	75-125	4.49	20	
Cadmium	4.65	0.00100	"	4.30	0.390	99.0	75-125	3.06	20	
Copper	53.4	0.0100	"	43.0	12.0	96.4	75-125	2.48	20	
Lead	19.8	0.00100	"	4.30	13.7	143	75-125	33.1	20	QM-07, QR-DUP
Nickel	9.04	0.00100	"	4.30	4.26	111	75-125	9.00	20	
Selenium	3.96	0.00100	"	4.30	0.102	89.7	75-125	3.15	20	
Silver	4.29	0.00100	"	4.30	0.123	97.1	75-125	1.10	20	
Zinc	84.8	0.100	"	43.0	46.4	89.4	75-125	9.16	20	

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

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 B2F2114 - NO PREP

Blank (B2F2114-BLK1)

Prepared: 06/21/2022 Analyzed: 06/22/2022

Specific Conductance (EC) 0.00200 0.00500 mmhos/cm
 pH 0.00 pH Units

Duplicate (B2F2114-DUP1)

Source: Y206417-04

Prepared: 06/21/2022 Analyzed: 06/22/2022

pH 7.66 pH Units 7.82 2.07 25
 Specific Conductance (EC) 0.139 0.00500 mmhos/cm 0.132 5.45 25

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Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

Total Metals by 7196A - 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 L624630 -

DUP (L 84094-DUP)

Source: 84094

Prepared: Analyzed: 07/01/2022

Chromium, Hexavalent	ND	1.22	mg/Kg		<2.50	-	0	20		
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MS (L 84094-MS)

Source: 84094

Prepared: Analyzed: 07/01/2022

Chromium, Hexavalent	7.92	1.24	mg/Kg	8.14	<1.24	97	75-125			
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MSD (L 84094-MSD)

Source: 84094

Prepared: Analyzed: 07/01/2022

Chromium, Hexavalent	437	24.6	mg/Kg	617	<24.6	71	75-125			*
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LCS (LCS)

Prepared: Analyzed: 07/01/2022

Chromium, Hexavalent	8.35	0.244	mg/Kg	8		104	75-125			
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LRB (LRB)

Prepared: Analyzed: 07/01/2022

Chromium, Hexavalent	ND	0.5	mg/Kg							
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Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

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 L622533 - 3550B

MSD (L 88846-MSD-L622533)

Source: 88846

Prepared: 06/20/2022 Analyzed: 06/22/2022

Pyrene	0.102	0.000643	mg/Kg	0.166	<0.000643	61.4	30-130	1.9	30	
Naphthalene	0.0806	0.000484	"	0.166	<0.000484	48.5	30-130	3.4	30	
Indeno(1,2,3-cd)pyrene	0.0748	0.000627	"	0.166	<0.000627	45	30-130	45.6	30	
Fluorene	0.0738	0.000286	"	0.166	<0.000286	44.4	30-130	57.9	30	
Fluoranthene	0.105	0.000394	"	0.166	<0.000394	63.2	30-130	2.8	30	
Dibenz(a,h)anthracene	0.0799	0.000614	"	0.166	<0.000614	48.1	30-130	44	30	
Chrysene	0.0959	0.000624	"	0.166	<0.000624	57.7	30-130	3	30	
Benzo(k)fluoranthene	0.0922	0.000437	"	0.166	<0.000437	55.5	30-130	5.2	30	
Benzo(b)fluoranthene	0.12	0.000585	"	0.166	<0.000585	72.2	30-130	2.4	30	
Benzo(a)pyrene	0.108	0.000468	"	0.166	<0.000468	65	30-130	1.8	30	
Benzo(a)anthracene	0.0987	0.000493	"	0.166	<0.000493	59.4	30-130	3.2	30	
Anthracene	0.0992	0.000334	"	0.166	<0.000334	59.7	30-130	1.7	30	
Acenaphthene	0.0897	0.000304	"	0.166	<0.000304	54	30-130	1.6	30	
2-Methylnaphthalene	0.087	0.000645	"	0.166	<0.000645	52.4	30-130	19.6	30	
1-Methylnaphthalene	0.113	0.000364	"	0.166	<0.000364	68	30-130	3.6	30	
Surrogate: Nitrobenzene-d5	53.9		"	0.332	214	53.9	29-110			
Surrogate: 4-Terphenyl-d14	64.1		"	0.332	230	64.1	33-122			
Surrogate: 2-Fluorobiphenyl	68.3		"	0.332	209	68.3	33-115			

MS (L 88846-MS-L622533)

Source: 88846

Prepared: 06/20/2022 Analyzed: 06/22/2022

Chrysene	0.0989	0.000624	mg/Kg	0.165	<0.000624	59.9	30-130			
Benzo(k)fluoranthene	0.0972	0.000437	"	0.165	<0.000437	58.9	30-130			
1-Methylnaphthalene	0.109	0.000364	"	0.165	<0.000364	66	30-130			
2-Methylnaphthalene	0.106	0.000645	"	0.165	<0.000645	64.2	30-130			
Acenaphthene	0.0912	0.000304	"	0.165	<0.000304	55.2	30-130			
Anthracene	0.101	0.000334	"	0.165	<0.000334	61.2	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.165	<0.000493	61.8	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

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 L622533 - 3550B

MS (L 88846-MS-L622533)

Source: 88846

Prepared: 06/20/2022 Analyzed: 06/22/2022

Benzo(a)pyrene	0.11	0.000468	mg/Kg	0.165	<0.000468	66.6	30-130			
Fluoranthene	0.108	0.000394	"	0.165	<0.000394	65.4	30-130			
Benzo(b)fluoranthene	0.123	0.000585	"	0.165	<0.000585	74.5	30-130			
Dibenz(a,h)anthracene	0.125	0.000614	"	0.165	<0.000614	75.7	30-130			
Fluorene	0.134	0.000286	"	0.165	<0.000286	81.2	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.000627	"	0.165	<0.000627	72.1	30-130			
Naphthalene	0.0834	0.000484	"	0.165	<0.000484	50.5	30-130			
Pyrene	0.104	0.000643	"	0.165	<0.000643	63	30-130			
Surrogate: 2-Fluorobiphenyl	56		"	0.33	209	56	33-115			
Surrogate: 4-Terphenyl-d14	66.3		"	0.33	230	66.3	33-122			
Surrogate: Nitrobenzene-d5	57.5		"	0.33	214	57.5	29-110			

LCS (LCS-L622533)

Prepared: 06/20/2022 Analyzed: 06/22/2022

Fluorene	0.112	0.000286	mg/Kg	0.167		67	30-130			
Naphthalene	0.0785	0.000484	"	0.167		47	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000627	"	0.167		65.2	30-130			
Pyrene	0.123	0.000643	"	0.167		73.6	30-130			
Benzo(a)pyrene	0.105	0.000468	"	0.167		62.8	30-130			
Benzo(k)fluoranthene	0.0936	0.000437	"	0.167		56	30-130			
Fluoranthene	0.118	0.000394	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.114	0.000364	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.0881	0.000645	"	0.167		52.7	30-130			
Acenaphthene	0.0904	0.000304	"	0.167		54.1	30-130			
Anthracene	0.0941	0.000334	"	0.167		56.3	30-130			
Benzo(a)anthracene	0.0995	0.000493	"	0.167		59.5	30-130			
Benzo(b)fluoranthene	0.0998	0.000585	"	0.167		59.7	30-130			
Chrysene	0.0943	0.000624	"	0.167		56.4	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - PTF #C 32-8

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 L622533 - 3550B

LCS (LCS-L622533)

Prepared: 06/20/2022 Analyzed: 06/22/2022

Dibenz(a,h)anthracene	0.12	0.000614	mg/Kg	0.167		71.8	30-130			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			
Surrogate: 2-Fluorobiphenyl	74.4		"	0.333		74.4	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

LRB (LRB-L622533)

Prepared: 06/20/2022 Analyzed: 06/22/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg							
Benzo(k)fluoranthene	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	"							
Chrysene	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	"							
1-Methylnaphthalene	ND	0.00067	"							
Pyrene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	52.5		"	0.333		52.5	29-110			
Surrogate: 4-Terphenyl-d14	59.7		"	0.333		59.7	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

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Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

* 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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