



February 07, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wilmoth #14-0314

Project Number - [none]

Attached are your analytical results for Noble - Wilmoth #14-0314 received by Origins Laboratory, Inc. January 23, 2024. This project is associated with Origins project number Y401556-01.

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.

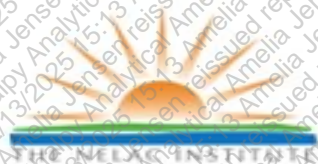
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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





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

Andrew Newberry
Project Number: [none]
Project: Noble - Wilmoth #14-0314

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y401556-01	Soil	January 23, 2024 0:00	01/23/2024 17:26

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wilmoth #14-0314

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401550

Client: Eagle

Client Project ID: Wilmoth #14-2374

Checklist Completed by: TJH/KNS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/Time Completed: 1/24/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

Cooler Number/Temperature: 1-6-c

(Describe) °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"/>	<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 ⁽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 checked="" 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"/>	<u>NO TIME</u>
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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+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: [Signature] (Project Manager)

Date/Time Reviewed: 1-25-24

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

WH-FS-01@6'
1/23/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401556-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.585		0.0992	mg/L	1	B4A2612	01/26/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.0% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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

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WH-FS-01@6'
1/23/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401556-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: Toluene-d8	95.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.05		0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	1.02		0.823	"	"	"	"	"	
Sodium	4.56		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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1/23/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401556-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4A2615	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	3.20		0.0100	SAR	1	B4A2607	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14		0.00500	mmhos/cm	1	B4A2615	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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WH-FS-01@6'
1/23/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401556-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.67		0.0908	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	141		9.08	"	"	"	"	"	"
Cadmium	0.112		0.0908	"	"	"	"	"	"
Copper	ND		9.08	"	"	"	"	"	"
Lead	9.39		0.908	"	"	"	"	"	"
Nickel	9.36		0.908	"	"	"	"	"	"
Selenium	ND		0.0908	"	"	"	"	"	"
Silver	ND		0.0908	"	"	"	"	"	"
Zinc	38.5		9.08	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729960	01/23/2024	01/31/2024	
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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 B4A2422 - EPA 5030 (soil)

Blank (B4A2422-BLK1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

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		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
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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 B4A2422 - EPA 5030 (soil)

LCS (B4A2422-BS1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
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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 B4A2422 - EPA 5030 (soil)

Matrix Spike (B4A2422-MS1)

Source: Y401552-01

Prepared: 01/24/2024 Analyzed: 01/24/2024

1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100	ND	92.7	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.112	0.00200	"	0.100	ND	112	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Naphthalene	0.124	0.00380	"	0.100	ND	124	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.0932	0.00200	"	0.100	ND	93.2	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wilmoth #14-0314

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 B4A2422 - EPA 5030 (soil)

Matrix Spike Dup (B4A2422-MSD1)

Source: Y401552-01

Prepared: 01/24/2024 Analyzed: 01/24/2024

1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130	6.35	20	
1,3,5-Trimethylbenzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	5.07	20	
Benzene	0.119	0.00200	"	0.100	ND	119	70-130	6.43	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	5.74	20	
Naphthalene	0.128	0.00380	"	0.100	ND	128	70-130	3.75	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	5.87	20	
o-Xylene	0.0998	0.00200	"	0.100	ND	99.8	70-130	6.88	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	6.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

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 B4A2502 - EPA 3550B

Blank (B4A2502-BLK1)

Prepared: 01/25/2024 Analyzed: 01/29/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.8	50-150			

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Jordan A. Bynon, Project Manager



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 Project: Noble - Wilmoth #14-0314

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 B4A2502 - EPA 3550B

LCS (B4A2502-BS1)

Prepared: 01/25/2024 Analyzed: 01/29/2024

Diesel (C10-C28)	908	50.0	mg/kg	1000		90.8	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	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 B4A2502 - EPA 3550B

Matrix Spike (B4A2502-MS1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/29/2024

Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B4A2502 - EPA 3550B

Matrix Spike Dup (B4A2502-MSD1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/29/2024

Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.18	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	0.869	35	
Surrogate: o-Terphenyl	41		"	49.8		83.3	50-150			

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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 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 B4A2420 - EPA 3050B

Blank (B4A2420-BLK1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A2420-BS1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	4.92	0.0100	mg/kg	5.00		98.4	80-120			
Barium	496	1.00	"	500		99.3	80-120			
Cadmium	4.84	0.0100	"	5.00		96.9	80-120			
Copper	51.0	1.00	"	50.0		102	80-120			
Lead	5.16	0.100	"	5.00		103	80-120			
Nickel	5.09	0.100	"	5.00		102	80-120			
Selenium	4.66	0.0100	"	5.00		93.2	80-120			
Silver	5.17	0.0100	"	5.00		103	80-120			
Zinc	49.7	1.00	"	50.0		99.5	80-120			

Matrix Spike (B4A2420-MS1)

Source: Y401546-01

Prepared: 01/24/2024 Analyzed: 01/26/2024

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

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 B4A2420 - EPA 3050B

Matrix Spike (B4A2420-MS1)

Source: Y401546-01

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	10.8	0.0988	mg/kg	4.94	5.92	98.6	75-125			
Barium	729	9.88	"	494	257	95.4	75-125			
Cadmium	5.36	0.0988	"	4.94	0.180	105	75-125			
Copper	65.7	9.88	"	49.4	35.2	61.7	75-125			QM-07
Lead	17.8	0.988	"	4.94	13.8	79.9	75-125			
Nickel	18.4	0.988	"	4.94	13.7	96.4	75-125			
Selenium	4.28	0.0988	"	4.94	0.278	81.1	75-125			
Silver	4.75	0.0988	"	4.94	0.0403	95.3	75-125			
Zinc	93.5	9.88	"	49.4	46.5	95.1	75-125			

Matrix Spike Dup (B4A2420-MSD1)

Source: Y401546-01

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	10.4	0.0976	mg/kg	4.88	5.92	92.8	75-125	3.19	20	
Barium	728	9.76	"	488	257	96.4	75-125	0.109	20	
Cadmium	5.30	0.0976	"	4.88	0.180	105	75-125	1.18	20	
Copper	67.1	9.76	"	48.8	35.2	65.3	75-125	2.12	20	QM-07
Lead	18.0	0.976	"	4.88	13.8	86.1	75-125	1.42	20	
Nickel	18.0	0.976	"	4.88	13.7	88.2	75-125	2.51	20	
Selenium	4.30	0.0976	"	4.88	0.278	82.4	75-125	0.378	20	
Silver	4.50	0.0976	"	4.88	0.0403	91.3	75-125	5.41	20	
Zinc	91.7	9.76	"	48.8	46.5	92.5	75-125	1.95	20	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Blank (B4A2521-BLK1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4A2521-BS1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.167	0.002	mg/kg	0.200		83.4	70-130			
2-Methylnaphthalene	0.167	0.002	"	0.200		83.6	70-130			
Acenaphthene	0.161	0.020	"	0.200		80.7	70-130			
Anthracene	0.160	0.020	"	0.200		80.1	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

LCS (B4A2521-BS1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

Benzo (a) anthracene	0.161	0.005	mg/kg	0.200		80.5	70-130			
Benzo (a) pyrene	0.162	0.020	"	0.200		81.0	70-130			
Benzo (b) fluoranthene	0.174	0.020	"	0.200		87.1	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.2	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.6	70-130			
Chrysene	0.158	0.020	"	0.200		78.9	70-130			
Dibenz (a,h) anthracene	0.182	0.020	"	0.200		91.2	70-130			
Fluoranthene	0.162	0.020	"	0.200		80.9	70-130			
Fluorene	0.162	0.020	"	0.200		80.9	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.4	70-130			
Naphthalene	0.165	0.002	"	0.200		82.4	70-130			
Phenanthrene	0.159	0.020	"	0.200		79.3	70-130			
Pyrene	0.153	0.020	"	0.200		76.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4A2521-MS1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.165	0.002	mg/kg	0.200	ND	82.3	70-130			
2-Methylnaphthalene	0.168	0.002	"	0.200	ND	83.9	70-130			
Acenaphthene	0.164	0.020	"	0.200	ND	82.0	70-130			
Anthracene	0.152	0.020	"	0.200	ND	76.0	70-130			
Benzo (a) anthracene	0.167	0.005	"	0.200	ND	83.5	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200	0.003	82.5	70-130			
Benzo (b) fluoranthene	0.167	0.020	"	0.200	ND	83.6	70-130			
Benzo (g,h,i) perylene	0.175	0.020	"	0.200	0.001	87.2	70-130			

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Matrix Spike (B4A2521-MS1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

Benzo (k) fluoranthene	0.165	0.020	mg/kg	0.200	ND	82.7	70-130			
Chrysene	0.162	0.020	"	0.200	0.001	80.4	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.3	70-130			
Fluoranthene	0.165	0.020	"	0.200	0.0007	82.4	70-130			
Fluorene	0.162	0.020	"	0.200	ND	81.2	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.1	70-130			
Naphthalene	0.166	0.002	"	0.200	ND	83.1	70-130			
Phenanthrene	0.158	0.020	"	0.200	ND	78.8	70-130			
Pyrene	0.162	0.020	"	0.200	0.001	80.3	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4A2521-MSD1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.165	0.002	mg/kg	0.200	ND	82.3	70-130	0.0548	20	
2-Methylnaphthalene	0.167	0.002	"	0.200	ND	83.5	70-130	0.492	20	
Acenaphthene	0.164	0.020	"	0.200	ND	82.0	70-130	0.0569	20	
Anthracene	0.162	0.020	"	0.200	ND	80.8	70-130	6.13	20	
Benzo (a) anthracene	0.162	0.005	"	0.200	ND	80.9	70-130	3.08	20	
Benzo (a) pyrene	0.181	0.020	"	0.200	0.003	88.7	70-130	7.14	20	
Benzo (b) fluoranthene	0.175	0.020	"	0.200	ND	87.6	70-130	4.65	20	
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.001	85.4	70-130	2.17	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	ND	83.9	70-130	1.47	20	
Chrysene	0.163	0.020	"	0.200	0.001	80.8	70-130	0.417	20	
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	ND	91.3	70-130	4.46	20	
Fluoranthene	0.163	0.020	"	0.200	0.0007	81.1	70-130	1.57	20	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Matrix Spike Dup (B4A2521-MSD1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

Fluorene	0.164	0.020	mg/kg	0.200	ND	82.0	70-130	0.955	20	
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.0	70-130	0.124	20	
Naphthalene	0.167	0.002	"	0.200	ND	83.5	70-130	0.418	20	
Phenanthrene	0.162	0.020	"	0.200	ND	80.9	70-130	2.68	20	
Pyrene	0.157	0.020	"	0.200	0.001	77.8	70-130	3.16	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

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 B4A2607 - Saturated Paste Metals

Blank (B4A2607-BLK1)

Prepared: 01/26/2024 Analyzed: 01/29/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B4A2607-DUP1)

Source: Y401556-01

Prepared: 01/26/2024 Analyzed: 01/29/2024

Calcium PPM	72.4	10.0	mg/L		61.0			17.1	50	
SAR	ND	0.0100	SAR		3.20				200	
Magnesium PPM	15.0	10.0	mg/L		12.4			18.7	50	
Sodium PPM	119	10.0	"		105			12.9	50	

Batch B4A2612 - DTPA Sorbitol Preparation

Blank (B4A2612-BLK1)

Prepared: 01/26/2024 Analyzed: 01/30/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2612-DUP1)

Source: Y401543-03

Prepared: 01/26/2024 Analyzed: 01/30/2024

Boron	0.0468	0.0995	mg/L		0.0467			0.0555	50	
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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Wilmoth #14-0314

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 B4A2615 - Saturated Paste pH/EC

Blank (B4A2615-BLK1)

Prepared: 01/26/2024 Analyzed: 01/27/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A2615-DUP1)

Source: Y401556-01

Prepared: 01/26/2024 Analyzed: 01/27/2024

pH 8.18 pH Units 8.15 0.367 25

Specific Conductance (EC) 1.22 0.00500 mmhos/cm 1.14 7.17 25

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Wilmoth #14-0314

**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 L729960 -

DUP (L 88458-DUP)

Source: 88458

Prepared: Analyzed: 01/31/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 88458-MS)

Source: 88458

Prepared: Analyzed: 01/31/2024

Chromium, Hexavalent	29.6	2.5	mg/Kg	39.6	< 0.244	75	75-125		
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LCS (LCS)

Prepared: Analyzed: 01/31/2024

Chromium, Hexavalent	6.05	0.5	mg/Kg	8		76	75-125		
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LRB (LRB)

Prepared: Analyzed: 01/31/2024

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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wilmoth #14-0314

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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