



December 11, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Meyer USX CC #7-17 Project Number - [none]

Attached are your analytical results for Noble - Meyer USX CC #7-17 received by Origins Laboratory, Inc. November 17, 2023. This project is associated with Origins project number Y311469-01.

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

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

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

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

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

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



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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Meyer USX CC #7-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y311469-01	Soil	November 17, 2023 10:43	11/17/2023 14:20

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 - Meyer USX CC #7-17

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 page 1 of 1

4311469

Client: EMERALD ENVIRONMENTAL CONSULTING
 Address: 8000 W 44th Ave
 Telephone Number: 303-433-1322
 Email Address: AMANDA@EMERALDENV.COM

Project Manager: ANDREW NEWBERRY
 Project Name: Meyer USX CC #7-17
 Project Number: SU
 Samples Collected By: SU

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Other	Analysis	Sample Instructions
1117-1500-P	11/17/23	10:45	5 X	Unpreserved HCl HNO ₃ Other	Soil Groundwater Other		X X X X X	FOR ICP-MS
								Saturated Vapor
								ENV. RECORD


Relinquished By: Andrew Newberry
 Relinquished Date: 11/17/23
 Time: 13:00

Received By: [Signature]
 Received Date: 11/17/23
 Time: 14:20

Turnaround Time:
 Same Day
 24 Hr
 48 Hr
 Standard

Date Results Needed: 11/17/23

Temp Received: 7

Origins Laboratory, Inc.


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ORIGINS

LABORATORY, INC

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Meyer USX CC #7-17

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

Sample Receipt Checklist

Origins Work Order: 4311469 Client: Eagle
 Client Project ID: Meyer USX CC #7-17
 Checklist Completed by: EHS/AGW Shipped Via: HD
 Date/time completed: 11/17/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A


Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 117 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1004

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>SD</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 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 (Project Manager) [Signature]

Date/Time Reviewed 11/20/23

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 - Meyer USX CC #7-17

WH-FS-01@7'
11/17/2023 10:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311469-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B3K2012	11/20/2023	11/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K2003	11/20/2023	11/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.1%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1724	11/17/2023	11/19/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 11/17/2023 10:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311469-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			B3K17 24	11/17/2023	11/19/2023	
Surrogate: Toluene-d8	93.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.827		0.499	meq/L	10	[CALC]	11/18/2023	11/20/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K2024	11/20/2023	11/27/2023	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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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311469-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K2024	11/20/2023	11/27/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B3K1805	11/18/2023	11/20/2023	
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SAR by 20B Saturated Paste

SAR	0.164		0.0100	SAR	1	B3K1802	11/18/2023	11/20/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.120		0.00500	mmhos/cm	1	B3K1805	11/18/2023	11/20/2023	
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Table 915 metals by EPA 6020B

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11/17/2023 10:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311469-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.02		0.000895	mg/kg	10	B3K2712	11/27/2023	11/29/2023	
Barium	23.2		0.0895	"	"	"	"	"	
Cadmium	0.0260		0.000895	"	"	"	"	"	
Copper	1.54		0.0895	"	"	"	"	"	
Lead	2.57		0.0895	"	"	"	"	"	
Nickel	1.77		0.0895	"	"	"	"	"	
Selenium	0.0233		0.000895	"	"	"	"	"	
Silver	0.0116		0.000895	"	"	"	"	"	
Zinc	7.37		0.895	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L718583	11/17/2023	11/22/2023	
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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 B3K1724 - EPA 5030 (soil)

Blank (B3K1724-BLK1)

Prepared: 11/17/2023 Analyzed: 11/18/2023

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	0.091		"	0.125		73.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	70-130			

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 Project Number: [none]
 Project: Noble - Meyer USX CC #7-17

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 B3K1724 - EPA 5030 (soil)

LCS (B3K1724-BS1)

Prepared: 11/17/2023 Analyzed: 11/18/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.0926	0.00200	"	0.100		92.6	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.3	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 B3K1724 - EPA 5030 (soil)

Matrix Spike (B3K1724-MS1)

Source: Y311436-01

Prepared: 11/17/2023 Analyzed: 11/18/2023

1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100	ND	87.5	70-130			
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Benzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Ethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Naphthalene	0.0961	0.00380	"	0.100	0.00144	94.7	70-130			
Toluene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
o-Xylene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.160	0.00400	"	0.200	ND	79.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.092		"	0.125		73.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	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 B3K1724 - EPA 5030 (soil)

Matrix Spike Dup (B3K1724-MSD1)

Source: Y311436-01

Prepared: 11/17/2023 Analyzed: 11/18/2023

1,2,4-Trimethylbenzene	0.0882	0.00200	mg/kg	0.100	ND	88.2	70-130	0.797	20	
1,3,5-Trimethylbenzene	0.0879	0.00200	"	0.100	ND	87.9	70-130	0.0455	20	
Benzene	0.0880	0.00200	"	0.100	ND	88.0	70-130	3.26	20	
Ethylbenzene	0.0876	0.00200	"	0.100	ND	87.6	70-130	1.29	20	
Naphthalene	0.101	0.00380	"	0.100	0.00144	99.5	70-130	4.89	20	
Toluene	0.0842	0.00200	"	0.100	ND	84.2	70-130	4.27	20	
o-Xylene	0.0798	0.00200	"	0.100	ND	79.8	70-130	0.906	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.5	70-130	0.861	20	
Surrogate: 1,2-Dichloroethane-d4	0.094		"	0.125		74.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	70-130			

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Andrew Newberry
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 Project: Noble - Meyer USX CC #7-17

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 B3K2003 - EPA 3550B

Blank (B3K2003-BLK1)

Prepared: 11/20/2023 Analyzed: 11/20/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.8	50-150			

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Andrew Newberry
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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 B3K2003 - EPA 3550B

LCS (B3K2003-BS1)

Prepared: 11/20/2023 Analyzed: 11/20/2023

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.3	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 B3K2003 - EPA 3550B

Matrix Spike (B3K2003-MS1)

Source: Y311469-01

Prepared: 11/20/2023 Analyzed: 11/20/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	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 B3K2003 - EPA 3550B

Matrix Spike Dup (B3K2003-MSD1)

Source: Y311469-01

Prepared: 11/20/2023 Analyzed: 11/20/2023

Diesel (C10-C28)	864	50.0	mg/kg	1000	ND	86.4	70-130	15.4	35	
Residual Range Organics (C28-C40)	936	200	"	1000	ND	93.6	70-130	19.3	35	
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

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 - Meyer USX CC #7-17

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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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 B3K2712 - EPA 3050B

Blank (B3K2712-BLK1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

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

LCS (B3K2712-BS1)

Prepared: 11/27/2023 Analyzed: 12/06/2023

Arsenic	5.11	0.0100	mg/kg	5.00		102	80-120			
Barium	529	1.00	"	500		106	80-120			
Cadmium	5.13	0.0100	"	5.00		103	80-120			
Copper	54.6	1.00	"	50.0		109	80-120			
Lead	4.96	1.00	"	5.00		99.3	80-120			
Nickel	5.30	0.100	"	5.00		106	80-120			
Selenium	4.46	0.0100	"	5.00		89.2	80-120			
Silver	5.22	0.0100	"	5.00		104	80-120			
Zinc	50.9	1.00	"	50.0		102	80-120			

Matrix Spike (B3K2712-MS1)

Source: Y311466-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

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 - Meyer USX CC #7-17

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 B3K2712 - EPA 3050B

Matrix Spike (B3K2712-MS1)

Source: Y311466-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	8.54	0.0923	mg/kg	4.62	1.92	143	75-125			QM-07
Barium	564	9.23	"	462	41.1	113	75-125			
Cadmium	4.51	0.0923	"	4.62	0.0446	96.8	75-125			
Copper	50.4	9.23	"	46.2	2.37	104	75-125			
Lead	11.4	9.23	"	4.62	3.30	175	75-125			QM-07
Nickel	9.77	0.923	"	4.62	3.74	131	75-125			QM-07
Selenium	4.22	0.0923	"	4.62	0.0670	89.9	75-125			
Silver	4.58	0.0923	"	4.62	0.0152	98.9	75-125			
Zinc	60.7	9.23	"	46.2	12.6	104	75-125			

Matrix Spike Dup (B3K2712-MSD1)

Source: Y311466-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	6.16	0.0906	mg/kg	4.53	1.92	93.4	75-125	32.5	20	QR-DUP
Barium	506	9.06	"	453	41.1	103	75-125	10.8	20	
Cadmium	3.96	0.0906	"	4.53	0.0446	86.4	75-125	13.1	20	
Copper	47.9	9.06	"	45.3	2.37	100	75-125	5.19	20	
Lead	7.46	9.06	"	4.53	3.30	91.8	75-125	41.4	20	QR-DUP
Nickel	7.69	0.906	"	4.53	3.74	87.2	75-125	23.9	20	QR-DUP
Selenium	3.77	0.0906	"	4.53	0.0670	81.7	75-125	11.1	20	
Silver	4.02	0.0906	"	4.53	0.0152	88.3	75-125	13.1	20	
Zinc	49.7	9.06	"	45.3	12.6	81.9	75-125	20.0	20	

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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 - Meyer USX CC #7-17

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 B3K2024 - EPA 3580

Prepared: 11/20/2023 Analyzed: 11/27/2023

Blank (B3K2024-BLK1)

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		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	190		"	200		93.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

LCS (B3K2024-BS1)

Prepared: 11/20/2023 Analyzed: 11/27/2023

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200		95.8	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.4	70-130			
Anthracene	0.197	0.020	"	0.200		98.4	70-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Meyer USX CC #7-17

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 B3K2024 - EPA 3580

LCS (B3K2024-BS1)

Prepared: 11/20/2023 Analyzed: 11/27/2023

Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.3	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		97.0	70-130			
Benzo (b) fluoranthene	0.186	0.020	"	0.200		93.2	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.0	70-130			
Benzo (k) fluoranthene	0.180	0.020	"	0.200		89.8	70-130			
Chrysene	0.181	0.020	"	0.200		90.6	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.0	70-130			
Fluoranthene	0.196	0.020	"	0.200		97.9	70-130			
Fluorene	0.197	0.020	"	0.200		98.3	70-130			
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200		86.5	70-130			
Naphthalene	0.195	0.002	"	0.200		97.4	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.2	70-130			
Pyrene	0.170	0.020	"	0.200		85.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	180		"	200		92.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike (B3K2024-MS1)

Source: Y311186-02

Prepared: 11/20/2023 Analyzed: 11/27/2023

1-Methylnaphthalene	0.195	0.010	mg/kg	0.200	ND	97.5	70-130			
2-Methylnaphthalene	0.188	0.010	"	0.200	ND	94.0	70-130			
Acenaphthene	0.194	0.100	"	0.200	0.004	95.4	70-130			
Anthracene	0.201	0.100	"	0.200	0.009	95.9	70-130			
Benzo (a) anthracene	0.247	0.025	"	0.200	0.070	88.7	70-130			
Benzo (a) pyrene	0.331	0.100	"	0.200	0.095	118	70-130			
Benzo (b) fluoranthene	0.305	0.100	"	0.200	0.101	102	70-130			
Benzo (g,h,i) perylene	0.355	0.100	"	0.200	0.158	98.7	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 - Meyer USX CC #7-17

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 B3K2024 - EPA 3580

Matrix Spike (B3K2024-MS1)

Source: Y311186-02

Prepared: 11/20/2023 Analyzed: 11/27/2023

Benzo (k) fluoranthene	0.238	0.100	mg/kg	0.200	0.047	95.5	70-130			
Chrysene	0.267	0.100	"	0.200	0.082	92.7	70-130			
Dibenz (a,h) anthracene	0.224	0.100	"	0.200	0.018	103	70-130			
Fluoranthene	0.344	0.100	"	0.200	0.133	105	70-130			
Fluorene	0.195	0.100	"	0.200	ND	97.5	70-130			
Indeno (1,2,3-cd) pyrene	0.283	0.100	"	0.200	0.118	82.6	70-130			QM-07
Naphthalene	0.194	0.010	"	0.200	ND	96.9	70-130			
Phenanthrene	0.212	0.100	"	0.200	0.028	92.1	70-130			
Pyrene	0.289	0.100	"	0.200	0.103	93.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B3K2024-MSD1)

Source: Y311186-02

Prepared: 11/20/2023 Analyzed: 11/27/2023

1-Methylnaphthalene	0.197	0.010	mg/kg	0.200	ND	98.6	70-130	1.15	20	
2-Methylnaphthalene	0.195	0.010	"	0.200	ND	97.6	70-130	3.80	20	
Acenaphthene	0.200	0.100	"	0.200	0.004	98.4	70-130	3.09	20	
Anthracene	0.182	0.100	"	0.200	0.009	86.5	70-130	9.75	20	
Benzo (a) anthracene	0.279	0.025	"	0.200	0.070	104	70-130	11.9	20	
Benzo (a) pyrene	0.323	0.100	"	0.200	0.095	114	70-130	2.64	20	
Benzo (b) fluoranthene	0.315	0.100	"	0.200	0.101	107	70-130	3.29	20	
Benzo (g,h,i) perylene	0.340	0.100	"	0.200	0.158	91.1	70-130	4.33	20	
Benzo (k) fluoranthene	0.239	0.100	"	0.200	0.047	95.8	70-130	0.325	20	
Chrysene	0.302	0.100	"	0.200	0.082	110	70-130	12.2	20	
Dibenz (a,h) anthracene	0.209	0.100	"	0.200	0.018	95.5	70-130	7.05	20	
Fluoranthene	0.416	0.100	"	0.200	0.133	141	70-130	19.1	20	QM-07

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 - Meyer USX CC #7-17

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 B3K2024 - EPA 3580

Matrix Spike Dup (B3K2024-MSD1)

Source: Y311186-02

Prepared: 11/20/2023 Analyzed: 11/27/2023

Fluorene	0.204	0.100	mg/kg	0.200	ND	102	70-130	4.45	20	
Indeno (1,2,3-cd) pyrene	0.279	0.100	"	0.200	0.118	80.8	70-130	1.30	20	QM-07
Naphthalene	0.195	0.010	"	0.200	ND	97.6	70-130	0.722	20	
Phenanthrene	0.268	0.100	"	0.200	0.028	120	70-130	23.2	20	QM-07
Pyrene	0.338	0.100	"	0.200	0.103	117	70-130	15.5	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		92.8	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Meyer USX CC #7-17

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 B3K1802 - Saturated Paste Metals

Blank (B3K1802-BLK1)

Prepared: 11/18/2023 Analyzed: 11/20/2023

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

Duplicate (B3K1802-DUP1)

Source: Y311439-01

Prepared: 11/18/2023 Analyzed: 11/20/2023

Calcium PPM	56.0	10.0	mg/L		57.7			3.06	50	
SAR	ND	0.0100	SAR		1.01				200	
Magnesium PPM	16.4	10.0	mg/L		15.8			4.04	50	
Sodium PPM	36.8	10.0	"		33.5			9.40	50	

Batch B3K2012 - DTPA Sorbitol Preparation

Blank (B3K2012-BLK1)

Prepared: 11/20/2023 Analyzed: 11/21/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K2012-DUP1)

Source: Y311409-02

Prepared: 11/20/2023 Analyzed: 11/21/2023

Boron	3.25	0.0998	mg/L		2.86			13.0	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 - Meyer USX CC #7-17

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 B3K1805 - Saturated Paste pH/EC

Blank (B3K1805-BLK1)

Prepared: 11/18/2023 Analyzed: 11/20/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1805-DUP1)

Source: Y311439-01

Prepared: 11/18/2023 Analyzed: 11/20/2023

pH 8.08 pH Units 8.14 0.740 25

Specific Conductance (EC) 0.598 0.00500 mmhos/cm 0.569 4.97 25

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 - Meyer USX CC #7-17

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 L718583 -

DUP (L 84277-DUP)

Source: 84277

Prepared: Analyzed: 11/22/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 84277-MS)

Source: 84277

Prepared: Analyzed: 11/22/2023

Chromium, Hexavalent	36.5	2.5	mg/Kg	38.5	<1.22	95	75-125		
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LCS (LCS)

Prepared: Analyzed: 11/22/2023

Chromium, Hexavalent	7.09	0.5	mg/Kg	8		89	75-125		
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LRB (LRB)

Prepared: Analyzed: 11/22/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Meyer USX CC #7-17

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.

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.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager