



February 14, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Howard USX A #09-06D Project Number - [none]

Attached are your analytical results for Noble - Howard USX A #09-06D received by Origins Laboratory, Inc. January 30, 2024. This project is associated with Origins project number Y401751-01.

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 - Howard USX A #09-06D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y401751-01	Soil	January 30, 2024 8:40	01/30/2024 16:34
Background-01@2'	Y401751-02	Soil	January 30, 2024 8:42	01/30/2024 16:34

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 - Howard USX A #09-06D

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4401751

Client: Eagle

Client Project ID: Howard USX A #09-06D

Checklist Completed by: JAN CHS

Shipped Via: HUB

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

Date/time completed: 1/30/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/6 °C / _____ °C / _____ °C (Describe) _____ °C


Thermometer ID: 7004

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/31/24

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

WH-FS-01@7'
1/30/2024 8:40:00AM

Origins Laboratory, Inc.
Y401751-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.256		0.101	mg/L	1	B4B0205	02/02/2024	02/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A3101	01/31/2024	02/02/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.6% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A3121	01/31/2024	02/01/2024	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@7'
1/30/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401751-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B4A31 21	01/31/2024	02/01/2024	
Surrogate: Toluene-d8	99.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.02		0.499	meq/L	10	[CALC]	01/31/2024	02/01/2024	
Magnesium	1.81		0.823	"	"	"	"	"	
Sodium	0.608		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A3106	01/31/2024	02/09/2024	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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WH-FS-01@7'
1/30/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401751-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A3106	01/31/2024	02/09/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.43			pH Units	1	B4A3117	01/31/2024	02/01/2024	
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SAR by 20B Saturated Paste

SAR	0.511		0.0100	SAR	1	B4A3113	01/31/2024	02/01/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.352		0.00500	mmhos/cm	1	B4A3117	01/31/2024	02/01/2024	
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Table 915 metals by EPA 6020B

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WH-FS-01@7'
1/30/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401751-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.78		0.0961	mg/kg	10	B4A3042	01/30/2024	02/05/2024	
Barium	93.1		9.61	"	"	"	"	"	
Cadmium	0.237		0.0961	"	"	"	"	"	
Copper	10.6		9.61	"	"	"	"	"	
Lead	11.0		0.961	"	"	"	"	"	
Nickel	12.4		0.961	"	"	"	"	"	
Selenium	0.240		0.0961	"	"	"	"	02/06/2024	
Silver	ND		0.0961	"	"	"	"	02/05/2024	
Zinc	59.3		9.61	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L731513	01/30/2024	02/07/2024	
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Background-01@2'
1/30/2024 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401751-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.440	0.0997	mg/L	1	B4B0205	02/02/2024	02/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.28	0.499	meq/L	10	[CALC]	01/31/2024	02/01/2024	
Magnesium	0.978	0.823	"	"	"	"	"	
Sodium	0.447	0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33		pH Units	1	B4A3117	01/31/2024	02/01/2024	
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SAR by 20B Saturated Paste

SAR	0.421	0.0100	SAR	1	B4A3113	01/31/2024	02/01/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.436	0.00500	mmhos/cm	1	B4A3117	01/31/2024	02/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.36	0.0835	mg/kg	10	B4A3042	01/30/2024	02/05/2024	
Barium	49.9	8.35	"	"	"	"	"	
Cadmium	0.197	0.0835	"	"	"	"	"	
Copper	ND	8.35	"	"	"	"	"	

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Background-01@2'
1/30/2024 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401751-02 (Soil)

Table 915 metals by EPA 6020B

Lead	7.85		0.835	mg/kg	10	B4A3042	01/30/2024	02/05/2024	
Nickel	6.55		0.835	"	"	"	"	"	"
Selenium	0.170		0.0835	"	"	"	"	"	"
Silver	ND		0.0835	"	"	"	"	"	"
Zinc	36.5		8.35	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L731513	01/30/2024	02/07/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3101 - EPA 3550B

Blank (B4A3101-BLK1)

Prepared: 01/31/2024 Analyzed: 02/02/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.1	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 B4A3101 - EPA 3550B

LCS (B4A3101-BS1)

Prepared: 01/31/2024 Analyzed: 02/02/2024

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	966	200	"	1000		96.6	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	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 B4A3101 - EPA 3550B

Matrix Spike (B4A3101-MS1)

Source: Y401738-01

Prepared: 01/31/2024 Analyzed: 02/02/2024

Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	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 B4A3101 - EPA 3550B

Matrix Spike Dup (B4A3101-MSD1)

Source: Y401738-01

Prepared: 01/31/2024 Analyzed: 02/02/2024

Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130	1.69	35	
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130	2.63	35	
Surrogate: o-Terphenyl	53		"	49.8		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 B4A3121 - EPA 5030 (soil)

Blank (B4A3121-BLK1)

Prepared: 01/31/2024 Analyzed: 01/31/2024

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		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	70-130			

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 Project: Noble - Howard USX A #09-06D

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 B4A3121 - EPA 5030 (soil)

LCS (B4A3121-BS1)

Prepared: 01/31/2024 Analyzed: 01/31/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.0868	0.00200	"	0.100		86.8	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0861	0.00200	"	0.100		86.1	70-130			
o-Xylene	0.0874	0.00200	"	0.100		87.4	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	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 B4A3121 - EPA 5030 (soil)

Matrix Spike (B4A3121-MS1)

Source: Y401658-12

Prepared: 01/31/2024 Analyzed: 01/31/2024

1,2,4-Trimethylbenzene	0.0989	0.00200	mg/kg	0.100	ND	98.9	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0855	0.00200	"	0.100	0.00140	84.1	70-130			
Ethylbenzene	0.0868	0.00200	"	0.100	0.00104	85.8	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0830	0.00200	"	0.100	0.00204	81.0	70-130			
o-Xylene	0.0871	0.00200	"	0.100	0.000520	86.5	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	0.00132	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3121 - EPA 5030 (soil)

Matrix Spike Dup (B4A3121-MSD1)

Source: Y401658-12

Prepared: 01/31/2024 Analyzed: 01/31/2024

1,2,4-Trimethylbenzene	0.0619	0.00200	mg/kg	0.100	ND	61.9	70-130	46.0	20	QM-07, QR-03
1,3,5-Trimethylbenzene	0.0603	0.00200	"	0.100	ND	60.3	70-130	47.5	20	QM-07, QR-03
Benzene	0.0586	0.00200	"	0.100	0.00140	57.2	70-130	37.3	20	QM-07, QR-03
Ethylbenzene	0.0535	0.00200	"	0.100	0.00104	52.4	70-130	47.5	20	QM-07, QR-03
Naphthalene	0.0664	0.00380	"	0.100	ND	66.4	70-130	40.9	20	QM-07, QR-03
Toluene	0.0565	0.00200	"	0.100	0.00204	54.4	70-130	38.1	20	QM-07, QR-03
o-Xylene	0.0541	0.00200	"	0.100	0.000520	53.5	70-130	46.8	20	QM-07, QR-03
m,p-Xylene	0.107	0.00400	"	0.200	0.00132	53.0	70-130	47.2	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - Howard USX A #09-06D

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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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 B4A3042 - EPA 3050B

Blank (B4A3042-BLK1)

Prepared: 01/30/2024 Analyzed: 02/05/2024

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 (B4A3042-BS1)

Prepared: 01/30/2024 Analyzed: 02/05/2024

Arsenic	4.91	0.0100	mg/kg	5.00		98.2	80-120			
Barium	488	1.00	"	500		97.6	80-120			
Cadmium	5.13	0.0100	"	5.00		103	80-120			
Copper	50.6	1.00	"	50.0		101	80-120			
Lead	5.13	0.100	"	5.00		103	80-120			
Nickel	5.04	0.100	"	5.00		101	80-120			
Selenium	4.66	0.0100	"	5.00		93.3	80-120			
Silver	5.65	0.0100	"	5.00		113	80-120			
Zinc	40.8	1.00	"	50.0		81.7	80-120			

Matrix Spike (B4A3042-MS1)

Source: Y401751-01

Prepared: 01/30/2024 Analyzed: 02/06/2024

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3042 - EPA 3050B

Matrix Spike (B4A3042-MS1)

Source: Y401751-01

Prepared: 01/30/2024 Analyzed: 02/06/2024

Arsenic	8.38	0.0904	mg/kg	4.52	3.78	102	75-125			
Barium	457	9.04	"	452	93.1	80.5	75-125			
Cadmium	4.35	0.0904	"	4.52	0.237	91.0	75-125			
Copper	56.7	9.04	"	45.2	10.6	102	75-125			
Lead	12.7	0.904	"	4.52	11.0	35.9	75-125			QM-07
Nickel	14.6	0.904	"	4.52	12.4	48.9	75-125			QM-07
Selenium	4.10	0.0904	"	4.52	0.240	85.4	75-125			
Silver	3.86	0.0904	"	4.52	0.0404	84.4	75-125			
Zinc	88.0	9.04	"	45.2	59.3	63.5	75-125			QM-07

Matrix Spike Dup (B4A3042-MSD1)

Source: Y401751-01

Prepared: 01/30/2024 Analyzed: 02/05/2024

Arsenic	7.26	0.0916	mg/kg	4.58	3.78	76.1	75-125	14.3	20	
Barium	476	9.16	"	458	93.1	83.7	75-125	4.11	20	
Cadmium	4.49	0.0916	"	4.58	0.237	92.8	75-125	3.05	20	
Copper	63.8	9.16	"	45.8	10.6	116	75-125	11.8	20	
Lead	15.4	0.916	"	4.58	11.0	94.9	75-125	19.4	20	
Nickel	17.1	0.916	"	4.58	12.4	103	75-125	15.7	20	
Selenium	4.04	0.0916	"	4.58	0.240	83.1	75-125	1.38	20	
Silver	3.87	0.0916	"	4.58	0.0404	83.7	75-125	0.408	20	
Zinc	97.2	9.16	"	45.8	59.3	82.7	75-125	9.92	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 - Howard USX A #09-06D

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 B4A3106 - EPA 3580

Blank (B4A3106-BLK1)

Prepared: 01/31/2024 Analyzed: 02/09/2024

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	100	60-130				
Surrogate: Anthracene-d10	190		"	200	95.1	60-130				
Surrogate: Pyrene-d10	190		"	200	96.1	60-130				
Surrogate: Benzo (a) pyrene-d12	200		"	200	101	60-130				

LCS (B4A3106-BS1)

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	89.7	70-130				
2-Methylnaphthalene	0.179	0.002	"	0.200	89.5	70-130				
Acenaphthene	0.178	0.020	"	0.200	89.1	70-130				
Anthracene	0.173	0.020	"	0.200	86.5	70-130				

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3106 - EPA 3580

LCS (B4A3106-BS1)

Prepared: 01/31/2024 Analyzed: 02/09/2024

Benzo (a) anthracene	0.185	0.005	mg/kg	0.200		92.4	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.4	70-130			
Chrysene	0.183	0.020	"	0.200		91.7	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.3	70-130			
Fluorene	0.178	0.020	"	0.200		89.2	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Naphthalene	0.183	0.002	"	0.200		91.5	70-130			
Phenanthrene	0.170	0.020	"	0.200		85.2	70-130			
Pyrene	0.175	0.020	"	0.200		87.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4A3106-MS1)

Source: Y401706-01

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200	ND	89.2	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200	0.0009	88.6	70-130			
Acenaphthene	0.177	0.020	"	0.200	ND	88.7	70-130			
Anthracene	0.170	0.020	"	0.200	0.026	72.0	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.012	90.4	70-130			
Benzo (a) pyrene	0.164	0.020	"	0.200	0.020	72.3	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.015	87.7	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.018	86.2	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3106 - EPA 3580

Matrix Spike (B4A3106-MS1)

Source: Y401706-01

Prepared: 01/31/2024 Analyzed: 02/09/2024

Benzo (k) fluoranthene	0.171	0.020	mg/kg	0.200	0.007	82.1	70-130			
Chrysene	0.182	0.020	"	0.200	0.018	81.8	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.007	95.2	70-130			
Fluoranthene	0.174	0.020	"	0.200	0.020	76.9	70-130			
Fluorene	0.176	0.020	"	0.200	ND	88.2	70-130			
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.200	0.014	77.7	70-130			
Naphthalene	0.181	0.002	"	0.200	ND	90.5	70-130			
Phenanthrene	0.173	0.020	"	0.200	0.011	81.0	70-130			
Pyrene	0.178	0.020	"	0.200	0.021	78.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4A3106-MSD1)

Source: Y401706-01

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	ND	91.4	70-130	2.44	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	0.0009	92.7	70-130	4.47	20	
Acenaphthene	0.183	0.020	"	0.200	ND	91.4	70-130	2.96	20	
Anthracene	0.176	0.020	"	0.200	0.026	75.3	70-130	3.78	20	
Benzo (a) anthracene	0.223	0.005	"	0.200	0.012	105	70-130	14.4	20	
Benzo (a) pyrene	0.193	0.020	"	0.200	0.020	86.6	70-130	16.0	20	
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.015	100	70-130	12.5	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.018	101	70-130	14.0	20	
Benzo (k) fluoranthene	0.193	0.020	"	0.200	0.007	92.8	70-130	11.7	20	
Chrysene	0.213	0.020	"	0.200	0.018	97.2	70-130	15.5	20	
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	0.007	96.6	70-130	1.37	20	
Fluoranthene	0.243	0.020	"	0.200	0.020	112	70-130	33.4	20	QR-02

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

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 B4A3106 - EPA 3580

Matrix Spike Dup (B4A3106-MSD1)

Source: Y401706-01

Prepared: 01/31/2024 Analyzed: 02/09/2024

Fluorene	0.184	0.020	mg/kg	0.200	ND	91.9	70-130	4.09	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	0.014	94.6	70-130	18.2	20	
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130	12.6	20	
Phenanthrene	0.230	0.020	"	0.200	0.011	109	70-130	28.0	20	QR-02
Pyrene	0.233	0.020	"	0.200	0.021	106	70-130	26.9	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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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 - Howard USX A #09-06D

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 B4A3113 - Saturated Paste Metals

Blank (B4A3113-BLK1)

Prepared: 01/31/2024 Analyzed: 02/01/2024

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 (B4A3113-DUP1)

Source: Y401688-05

Prepared: 01/31/2024 Analyzed: 02/01/2024

SAR	ND	0.0100	SAR	0.338				200		
Calcium PPM	204	10.0	mg/L	302			38.5	50		
Magnesium PPM	49.5	10.0	"	61.8			22.2	50		
Sodium PPM	26.8	10.0	"	24.6			8.47	50		

Batch B4B0205 - DTPA Sorbitol Preparation

Blank (B4B0205-BLK1)

Prepared: 02/02/2024 Analyzed: 02/06/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4B0205-DUP1)

Source: Y401749-01

Prepared: 02/02/2024 Analyzed: 02/06/2024

Boron	0.202	0.101	mg/L	0.193			4.40	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 - Howard USX A #09-06D

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 B4A3117 - Saturated Paste pH/EC

Blank (B4A3117-BLK1)

Prepared: 01/31/2024 Analyzed: 02/01/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A3117-DUP1)

Source: Y401688-05

Prepared: 01/31/2024 Analyzed: 02/01/2024

pH 8.36 pH Units 8.28 0.962 25

Specific Conductance (EC) 1.33 0.00500 mmhos/cm 1.67 22.6 25

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Jordan A. Bynon, Project Manager



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Howard USX A #09-06D

**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 L731513 -

DUP (L 99270-DUP)

Source: 99270

Prepared: Analyzed: 02/07/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 99270-MS)

Source: 99270

Prepared: Analyzed: 02/07/2024

Chromium, Hexavalent	32.8	2.5	mg/Kg	39.6	< 0.244	83	75-125		
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LCS (LCS)

Prepared: Analyzed: 02/07/2024

Chromium, Hexavalent	6.07	0.5	mg/Kg	8	76	75-125			
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LRB (LRB)

Prepared: Analyzed: 02/07/2024

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 - Howard USX A #09-06D

Notes and Definitions

- U Sample is Non-Detect.
 - QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
 - 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.
 - 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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