



March 11, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Kohlhoff USX AB #17-03P Project Number - [none]

Attached are your analytical results for Noble - Kohlhoff USX AB #17-03P received by Origins Laboratory, Inc. February 27, 2024. This project is associated with Origins project number Y402683-01.

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 - Kohlhoff USX AB #17-03P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y402683-01	Soil	February 23, 2024 15:05	02/27/2024 16:26
Background-01@2'	Y402683-02	Soil	February 23, 2024 15:50	02/27/2024 16:26

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 - Kohlhoff USX AB #17-03P

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

Origins Work Order: 4402023 Sample Receipt Checklist

Client: EAGLE
Client Project ID: Kohlhoff USX AB

Checklist Completed by: JWH/CAJ Shipped Via: JUP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/19/24 Airbill #: N/A

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

Cooler Number/Temperature: 1, 4 °C / _____ °C / _____ °C (Describe)

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 2/19/24

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Kohlhoff USX AB #17-03P

WH-FS-01@6'
2/23/2024 3:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402683-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4C0504	ACC	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2901	ADM	02/29/2024	03/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	82.0 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2823	JSM	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	101 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130		"	"	"	"	

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WH-FS-01@6'
2/23/2024 3:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402683-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.41	0.499	meq/L	10	[CALC]	ACC	03/04/2024	03/05/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0101	Windo	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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WH-FS-01@6'
2/23/2024 3:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402683-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	100 %		60-130		B4C01 01		03/01/2024	03/01/2024	
Surrogate: Anthracene-d10	95.8 %		60-130		"		"	"	
Surrogate: Pyrene-d10	103 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	108 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.23		pH Units	1	B4C0422	EAL	03/04/2024	03/05/2024	
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SAR by 20B Saturated Paste

SAR	0.210	0.0100	SAR	1	B4C0410	ACC	03/04/2024	03/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.267	0.00500	mmhos/cm	1	B4C0422	EAL	03/04/2024	03/05/2024	
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Project Number: [none]
Project: Noble - Kohlhoff USX AB #17-03P

Background-01@2'
2/23/2024 3:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402683-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B4C0504	ACC	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.520	0.499	meq/L	10	[CALC]	ACC	03/04/2024	03/05/2024	
Magnesium	0.847	0.823	"	"	"	ACC	"	"	
Sodium	0.845	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B4C0422	EAL	03/04/2024	03/05/2024	
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SAR by 20B Saturated Paste

SAR	1.02	0.0100	SAR	1	B4C0410	ACC	03/04/2024	03/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.263	0.00500	mmhos/cm	1	B4C0422	EAL	03/04/2024	03/05/2024	
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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 B4B2823 - EPA 5030 (soil)

Blank (B4B2823-BLK1)

Prepared: 02/28/2024 Analyzed: 02/28/2024

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		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	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 B4B2823 - EPA 5030 (soil)

LCS (B4B2823-BS1)

Prepared: 02/28/2024 Analyzed: 02/28/2024

1,2,4-Trimethylbenzene	0.0831	0.00200	mg/kg	0.100		83.1	70-130			
1,3,5-Trimethylbenzene	0.0824	0.00200	"	0.100		82.4	70-130			
Benzene	0.0934	0.00200	"	0.100		93.4	70-130			
Ethylbenzene	0.0896	0.00200	"	0.100		89.6	70-130			
Naphthalene	0.0961	0.00380	"	0.100		96.1	70-130			
Toluene	0.0919	0.00200	"	0.100		91.9	70-130			
o-Xylene	0.0897	0.00200	"	0.100		89.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 B4B2823 - EPA 5030 (soil)

Matrix Spike (B4B2823-MS1)

Source: Y402618-08

Prepared: 02/28/2024 Analyzed: 02/28/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
Benzene	0.113	0.00200	"	0.100	ND	113	70-130			
Ethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130			
Naphthalene	0.0884	0.00380	"	0.100	ND	88.4	70-130			
Toluene	0.120	0.00200	"	0.100	ND	120	70-130			
o-Xylene	0.121	0.00200	"	0.100	ND	121	70-130			
m,p-Xylene	0.257	0.00400	"	0.200	ND	129	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Kohlhoff USX AB #17-03P

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 B4B2823 - EPA 5030 (soil)

Matrix Spike Dup (B4B2823-MSD1)

Source: Y402618-08

Prepared: 02/28/2024 Analyzed: 02/28/2024

1,2,4-Trimethylbenzene	0.123	0.00200	mg/kg	0.100	ND	123	70-130	8.23	20	
1,3,5-Trimethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130	5.83	20	
Benzene	0.130	0.00200	"	0.100	ND	130	70-130	14.4	20	
Ethylbenzene	0.131	0.00200	"	0.100	ND	131	70-130	3.28	20	QM-07
Naphthalene	0.121	0.00380	"	0.100	ND	121	70-130	30.8	20	QR-02
Toluene	0.132	0.00200	"	0.100	ND	132	70-130	9.17	20	QM-07
o-Xylene	0.129	0.00200	"	0.100	ND	129	70-130	6.40	20	
m,p-Xylene	0.270	0.00400	"	0.200	ND	135	70-130	4.75	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 B4B2901 - EPA 3550B

Blank (B4B2901-BLK1)

Prepared: 02/29/2024 Analyzed: 03/02/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.4	50-150			

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Andrew Newberry
 Project Number: [none]
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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 B4B2901 - EPA 3550B

LCS (B4B2901-BS1)

Prepared: 02/29/2024 Analyzed: 03/02/2024

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	70-130			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.9	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 B4B2901 - EPA 3550B

Matrix Spike (B4B2901-MS1)

Source: Y402648-01

Prepared: 02/29/2024 Analyzed: 03/02/2024

Diesel (C10-C28)	834	50.0	mg/kg	1000	ND	83.4	70-130			
Residual Range Organics (C28-C40)	852	200	"	1000	ND	85.2	70-130			
Surrogate: o-Terphenyl	39		"	49.8		77.7	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 B4B2901 - EPA 3550B

Matrix Spike Dup (B4B2901-MSD1)

Source: Y402648-01

Prepared: 02/29/2024 Analyzed: 03/02/2024

Diesel (C10-C28)	827	50.0	mg/kg	1000	ND	82.7	70-130	0.864	35	
Residual Range Organics (C28-C40)	836	200	"	1000	ND	83.6	70-130	1.93	35	
Surrogate: o-Terphenyl	40		"	49.8		79.5	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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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 B4C0101 - EPA 3580

Blank (B4C0101-BLK1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

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		93.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	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 - Kohlhoff USX AB #17-03P

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 B4C0101 - EPA 3580

LCS (B4C0101-BS1)

Prepared: 03/01/2024 Analyzed: 03/04/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.4	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		89.1	70-130			
Acenaphthene	0.179	0.020	"	0.200		89.3	70-130			
Anthracene	0.176	0.020	"	0.200		88.2	70-130			
Benzo (a) anthracene	0.195	0.005	"	0.200		97.5	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		96.2	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.3	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		91.9	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.5	70-130			
Chrysene	0.187	0.020	"	0.200		93.4	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.5	70-130			
Fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Fluorene	0.183	0.020	"	0.200		91.4	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		94.9	70-130			
Naphthalene	0.186	0.002	"	0.200		92.9	70-130			
Phenanthrene	0.167	0.020	"	0.200		83.7	70-130			
Pyrene	0.165	0.020	"	0.200		82.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4C0101-MS1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.5	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200	ND	91.1	70-130			
Acenaphthene	0.183	0.020	"	0.200	ND	91.6	70-130			
Anthracene	0.174	0.020	"	0.200	ND	86.8	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 - Kohlhoff USX AB #17-03P

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 B4C0101 - EPA 3580

Matrix Spike (B4C0101-MS1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (a) anthracene	0.202	0.005	mg/kg	0.200	ND	101	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.4	70-130			
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0003	97.4	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.3	70-130			
Benzo (k) fluoranthene	0.203	0.020	"	0.200	ND	101	70-130			
Chrysene	0.190	0.020	"	0.200	ND	94.8	70-130			
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130			
Fluoranthene	0.174	0.020	"	0.200	ND	87.0	70-130			
Fluorene	0.186	0.020	"	0.200	ND	92.8	70-130			
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.4	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	93.9	70-130			
Phenanthrene	0.169	0.020	"	0.200	ND	84.4	70-130			
Pyrene	0.182	0.020	"	0.200	ND	90.9	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		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B4C0101-MSD1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	ND	93.2	70-130	0.820	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.3	70-130	1.25	20	
Acenaphthene	0.184	0.020	"	0.200	ND	92.0	70-130	0.491	20	
Anthracene	0.183	0.020	"	0.200	ND	91.3	70-130	5.09	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	ND	95.4	70-130	5.70	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130	1.86	20	
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.0003	95.0	70-130	2.52	20	
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	ND	91.0	70-130	1.35	20	

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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 - Kohlhoff USX AB #17-03P

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 B4C0101 - EPA 3580

Matrix Spike Dup (B4C0101-MSD1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	ND	101	70-130	0.835	20	
Chrysene	0.192	0.020	"	0.200	ND	95.8	70-130	1.05	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	2.08	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.4	70-130	1.64	20	
Fluorene	0.186	0.020	"	0.200	ND	93.2	70-130	0.428	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130	1.81	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.2	70-130	1.34	20	
Phenanthrene	0.174	0.020	"	0.200	ND	86.8	70-130	2.85	20	
Pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	3.72	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	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 - Kohlhoff USX AB #17-03P

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 B4C0410 - Saturated Paste Metals

Blank (B4C0410-BLK1)

Prepared: 03/04/2024 Analyzed: 03/05/2024

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

Duplicate (B4C0410-DUP1)

Source: Y402679-02

Prepared: 03/04/2024 Analyzed: 03/05/2024

Calcium PPM	25.3	10.0	mg/L		23.2			8.37	50	
SAR	ND	0.0100	SAR		5.06				200	
Magnesium PPM	5.66	10.0	mg/L		5.15			9.44	50	
Sodium PPM	113	10.0	"		104			8.97	50	

Batch B4C0504 - DTPA Sorbitol Preparation

Blank (B4C0504-BLK1)

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4C0504-DUP1)

Source: Y402652-07

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron	0.462	0.0997	mg/L		0.480			3.85	50	
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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Kohlhoff USX AB #17-03P

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 B4C0422 - Saturated Paste pH/EC

Blank (B4C0422-BLK1)

Prepared: 03/04/2024 Analyzed: 03/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4C0422-DUP1)

Source: Y402679-02

Prepared: 03/04/2024 Analyzed: 03/05/2024

Specific Conductance (EC) 0.756 0.00500 mmhos/cm 0.710 6.36 25

pH 8.46 pH Units 8.37 1.07 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 - Kohlhoff USX AB #17-03P

Notes and Definitions

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

Origins Laboratory, Inc.


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