



March 26, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Rouse USX A #05-06 Project Number - [none]

Attached are your analytical results for Noble - Rouse USX A #05-06 received by Origins Laboratory, Inc. February 27, 2024. This project is associated with Origins project number Y402682-01.

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.

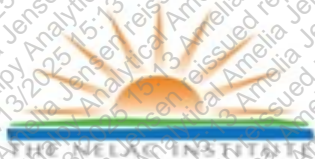
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - Rouse USX A #05-06

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y402682-01	Soil	February 27, 2024 13:12	02/27/2024 16:26
Background-01@2'	Y402682-02	Soil	February 27, 2024 13:02	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 - Rouse USX A #05-06

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 740267982

Client: Eagle

Client Project ID: Rouse USX A #05-06

Checklist Completed by: JULIE CAS

Shipped Via: TUO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/29/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/4 °C / _____ °C / _____ °C / _____ °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(41°F)?	<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 ⁽²⁾ ?	<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 HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ O ₂ /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): 

Date/Time Reviewed: 2/29/24

Origins Laboratory, Inc.



Jordan A. Bynon, Project Manager

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

WH-FS-01@7'
2/27/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.219		0.100	mg/L	1	B4C0504	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	02/29/2024	03/03/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.5% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2823	02/28/2024	02/29/2024	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'
 2/27/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4B28 23	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.21	0.499	meq/L	10	[CALC]		03/04/2024	03/05/2024	
Magnesium	0.890	0.823	"	"	"	"	"	"	
Sodium	0.646	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2927		02/29/2024	03/01/2024	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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2/27/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4B2927	02/29/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6%		60-130			"	"	"	
Surrogate: Anthracene-d10	96.1%		60-130			"	"	"	
Surrogate: Pyrene-d10	93.1%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102%		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4C0422	03/04/2024	03/05/2024	
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SAR by 20B Saturated Paste

SAR	0.519		0.0100	SAR	1	B4C0410	03/04/2024	03/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.556		0.00500	mmhos/cm	1	B4C0422	03/04/2024	03/05/2024	
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Table 915 metals by EPA 6020B

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WH-FS-01@7'
2/27/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.48		0.252	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	80.9		8.68	"	"	"	"	"	"
Cadmium	0.224		0.0868	"	"	"	"	"	"
Copper	12.1		8.68	"	"	"	"	"	"
Lead	11.6		0.868	"	"	"	"	"	"
Nickel	7.46		0.868	"	"	"	"	"	"
Selenium	ND		0.226	"	"	"	"	"	"
Silver	ND		0.0868	"	"	"	"	"	"
Zinc	41.6		32.1	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737857	02/27/2024	03/14/2024	
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Background-01@2'
2/27/2024 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.593		0.101	mg/L	1	B4C0504	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.65		0.499	meq/L	10	[CALC]	03/04/2024	03/05/2024	
Magnesium	1.13		0.823	"	"	"	"	"	
Sodium	1.94		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4C0422	03/04/2024	03/05/2024	
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SAR by 20B Saturated Paste

SAR	1.65		0.0100	SAR	1	B4C0410	03/04/2024	03/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.741		0.00500	mmhos/cm	1	B4C0422	03/04/2024	03/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.47		0.285	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	55.5		9.83	"	"	"	"	"	
Cadmium	0.176		0.0983	"	"	"	"	"	
Copper	11.1		9.83	"	"	"	"	"	

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 Project Number: [none]
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Background-01@2'
2/27/2024 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402682-02 (Soil)

Table 915 metals by EPA 6020B

Lead	7.09		0.983	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Nickel	6.33		0.983	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.0983	"	"	"	"	"	
Zinc	39.1		36.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737857	02/27/2024	03/14/2024	
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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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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

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 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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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 Project: Noble - Rouse USX A #05-06

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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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			

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 - Rouse USX A #05-06

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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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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 B4B2825 - EPA 3050B

Blank (B4B2825-BLK1)

Prepared: 02/28/2024 Analyzed: 03/11/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4B2825-BS1)

Prepared: 02/28/2024 Analyzed: 03/19/2024

Arsenic	5.01	0.290	mg/kg	5.00		100	80-120			
Barium	547	10.0	"	500		109	80-120			
Cadmium	5.82	0.100	"	5.00		116	80-120			
Copper	56.2	10.0	"	50.0		112	80-120			
Lead	5.27	1.00	"	5.00		105	80-120			
Nickel	5.43	1.00	"	5.00		109	80-120			
Selenium	10.3	0.260	"	9.50		109	80-120			
Silver	5.40	0.100	"	5.00		108	80-120			
Zinc	53.7	37.0	"	50.0		107	80-120			

Matrix Spike (B4B2825-MS1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

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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 - Rouse USX A #05-06

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 B4B2825 - EPA 3050B

Matrix Spike (B4B2825-MS1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

Arsenic	8.56	0.279	mg/kg	4.81	4.55	83.5	75-125			
Barium	607	9.61	"	481	89.4	108	75-125			
Cadmium	5.04	0.0961	"	4.81	0.322	98.1	75-125			
Copper	52.3	9.61	"	48.1	8.85	90.4	75-125			
Lead	15.8	0.961	"	4.81	9.58	130	75-125			QM-07
Nickel	10.0	0.961	"	4.81	5.73	89.6	75-125			
Selenium	9.77	0.250	"	9.13	0.405	103	75-125			
Silver	5.24	0.0961	"	4.81	0.252	104	75-125			
Zinc	80.6	35.6	"	48.1	32.4	100	75-125			

Matrix Spike Dup (B4B2825-MSD1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

Arsenic	8.98	0.243	mg/kg	4.18	4.55	106	75-125	4.80	20	
Barium	560	8.37	"	418	89.4	112	75-125	8.14	20	
Cadmium	4.38	0.0837	"	4.18	0.322	97.1	75-125	13.9	20	
Copper	46.0	8.37	"	41.8	8.85	88.7	75-125	12.9	20	
Lead	16.8	0.837	"	4.18	9.58	174	75-125	6.25	20	QM-07
Nickel	8.99	0.837	"	4.18	5.73	78.1	75-125	10.9	20	
Selenium	8.48	0.218	"	7.95	0.405	102	75-125	14.1	20	
Silver	4.49	0.0837	"	4.18	0.252	101	75-125	15.4	20	
Zinc	71.0	31.0	"	41.8	32.4	92.3	75-125	12.7	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 - Rouse USX A #05-06

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 B4B2927 - EPA 3580

Blank (B4B2927-BLK1)

Prepared: 02/29/2024 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		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	200		"	200		98.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

LCS (B4B2927-BS1)

Prepared: 02/29/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.5	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.5	70-130			
Acenaphthene	0.196	0.020	"	0.200		97.9	70-130			
Anthracene	0.192	0.020	"	0.200		96.2	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 - Rouse USX A #05-06

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 B4B2927 - EPA 3580

LCS (B4B2927-BS1)

Prepared: 02/29/2024 Analyzed: 03/01/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.6	70-130			
Benzo (a) pyrene	0.216	0.020	"	0.200		108	70-130			
Benzo (b) fluoranthene	0.228	0.020	"	0.200		114	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.234	0.020	"	0.200		117	70-130			
Chrysene	0.218	0.020	"	0.200		109	70-130			
Dibenz (a,h) anthracene	0.222	0.020	"	0.200		111	70-130			
Fluoranthene	0.196	0.020	"	0.200		97.8	70-130			
Fluorene	0.189	0.020	"	0.200		94.6	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.5	70-130			
Naphthalene	0.200	0.002	"	0.200		100	70-130			
Phenanthrene	0.200	0.020	"	0.200		100	70-130			
Pyrene	0.202	0.020	"	0.200		101	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.2	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike (B4B2927-MS1)

Source: Y402618-01

Prepared: 02/29/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.220	0.002	mg/kg	0.200	0.0004	110	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.223	0.020	"	0.200	ND	111	70-130			
Anthracene	0.235	0.020	"	0.200	ND	118	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.002	98.3	70-130			
Benzo (a) pyrene	0.238	0.020	"	0.200	0.001	118	70-130			
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.0004	116	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.001	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 - Rouse USX A #05-06

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 B4B2927 - EPA 3580

Matrix Spike (B4B2927-MS1)

Source: Y402618-01

Prepared: 02/29/2024 Analyzed: 03/01/2024

Benzo (k) fluoranthene	0.238	0.020	mg/kg	0.200	ND	119	70-130			
Chrysene	0.225	0.020	"	0.200	0.0005	112	70-130			
Dibenz (a,h) anthracene	0.261	0.020	"	0.200	0.001	130	70-130			
Fluoranthene	0.205	0.020	"	0.200	0.0004	102	70-130			
Fluorene	0.222	0.020	"	0.200	0.0002	111	70-130			
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	ND	116	70-130			
Naphthalene	0.228	0.002	"	0.200	ND	114	70-130			
Phenanthrene	0.233	0.020	"	0.200	0.0002	117	70-130			
Pyrene	0.230	0.020	"	0.200	ND	115	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	190		"	200		94.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4B2927-MSD1)

Source: Y402618-01

Prepared: 02/29/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0004	96.1	70-130	13.2	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	13.8	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.8	70-130	14.0	20	
Anthracene	0.185	0.020	"	0.200	ND	92.4	70-130	24.0	20	QR-02
Benzo (a) anthracene	0.183	0.005	"	0.200	0.002	90.4	70-130	8.30	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	0.001	107	70-130	10.5	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.0004	104	70-130	10.2	20	
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.001	101	70-130	0.219	20	
Benzo (k) fluoranthene	0.203	0.020	"	0.200	ND	101	70-130	16.0	20	
Chrysene	0.211	0.020	"	0.200	0.0005	105	70-130	6.39	20	
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.001	115	70-130	12.7	20	
Fluoranthene	0.179	0.020	"	0.200	0.0004	89.5	70-130	13.5	20	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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 B4B2927 - EPA 3580

Matrix Spike Dup (B4B2927-MSD1)

Source: Y402618-01

Prepared: 02/29/2024 Analyzed: 03/01/2024

Fluorene	0.186	0.020	mg/kg	0.200	0.0002	92.6	70-130	17.7	20	
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	ND	105	70-130	10.3	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.0	70-130	14.9	20	
Phenanthrene	0.199	0.020	"	0.200	0.0002	99.5	70-130	15.8	20	
Pyrene	0.199	0.020	"	0.200	ND	99.6	70-130	14.6	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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

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 (B4C0410-DUP1)

Source: Y402679-02

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

SAR	ND	0.0100	SAR	5.06				200		
Calcium PPM	25.3	10.0	mg/L	23.2			8.37	50		
Magnesium PPM	5.66	10.0	"	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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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Rouse USX A #05-06

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

pH 8.46 pH Units 8.37 1.07 25

Specific Conductance (EC) 0.756 0.00500 mmhos/cm 0.710 6.36 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 - Rouse USX A #05-06

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 L737857 -

DUP (L 98947-DUP)

Source: 98947

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
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MS (L 98947-MS)

Source: 98947

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	4.02	2.5	mg/Kg	39.8	< 0.244	10	75-125			*
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LCS (LCS)

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	6.03	0.5	mg/Kg	8	75	75-125				
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LRB (LRB)

Prepared: Analyzed: 03/14/2024

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 - Rouse USX A #05-06

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.
 - * QC Failure
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.
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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