



February 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Albertstein #16-23 Project Number - [none]

Attached are your analytical results for Noble - HSR - Albertstein #16-23 received by Origins Laboratory, Inc. February 05, 2024. This project is associated with Origins project number Y402102-01.

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 - HSR - Albertstein #16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4	Y402102-01	Soil	February 2, 2024 12:25	02/05/2024 11:57
Background-02@3	Y402102-02	Soil	February 2, 2024 12:45	02/05/2024 11:57
FL-SS-06@4	Y402102-03	Soil	February 5, 2024 10:08	02/05/2024 11:57
FL-SS-07@4	Y402102-04	Soil	February 5, 2024 10:19	02/05/2024 11:57
FL-SS-08@3	Y402102-05	Soil	February 5, 2024 10:32	02/05/2024 11:57

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 - HSR - Albertstein #16-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44102102

Client: Eagle

Client Project ID: ALBERTSTEIN #16-23

Checklist Completed by: JBYN

Shipped Via: TUD

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

Date/time completed: 2/18/24

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: 7001

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 2/16/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-01@4
 2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.1%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-01@4
 2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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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FL-SS-01@4
 2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.62			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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SAR by 20B Saturated Paste

SAR	0.0665		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0615		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Albertstein #16-23

FL-SS-01@4
2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.46		0.0881	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	41.6		8.81	"	"	"	"	"	
Cadmium	ND		0.0881	"	"	"	"	"	
Copper	ND		8.81	"	"	"	"	"	
Lead	3.69		0.881	"	"	"	"	"	
Nickel	2.98		0.881	"	"	"	"	"	
Selenium	ND		0.0881	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	12.4		8.81	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/02/2024	02/09/2024	
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 8000 W 44th Ave
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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

Background-02@3'
2/2/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.47			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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SAR by 20B Saturated Paste

SAR	ND		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0549		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.10		0.0949	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	45.5		9.49	"	"	"	"	"	
Cadmium	ND		0.0949	"	"	"	"	"	

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 Wheat Ridge CO 80033

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 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

Background-02@3'
2/2/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.49	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Lead	4.79		0.949	"	"	"	"	"	
Nickel	4.63		0.949	"	"	"	"	"	
Selenium	ND		0.0949	"	"	"	"	"	
Silver	ND		0.0949	"	"	"	"	"	
Zinc	20.6		9.49	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/02/2024	02/09/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-06@4
 2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.6 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-06@4
 2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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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FL-SS-06@4
 2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.30			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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SAR by 20B Saturated Paste

SAR	ND		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0488		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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Table 915 metals by EPA 6020B

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 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-06@4
 2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.99		0.0950	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	41.2		9.50	"	"	"	"	"	
Cadmium	ND		0.0950	"	"	"	"	"	
Copper	ND		9.50	"	"	"	"	"	
Lead	4.13		0.950	"	"	"	"	"	
Nickel	3.80		0.950	"	"	"	"	"	
Selenium	ND		0.0950	"	"	"	"	"	
Silver	ND		0.0950	"	"	"	"	"	
Zinc	14.5		9.50	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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Andrew Newberry
 Project Number: [none]
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FL-SS-07@4
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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

Origins Laboratory, Inc.


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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-07@4
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	0.829		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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

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 - HSR - Albertstein #16-23

FL-SS-07@4
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-04 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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SAR by 20B Saturated Paste

SAR	0.243		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.180		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Albertstein #16-23

FL-SS-07@4
2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.08		0.0994	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	42.6		9.94	"	"	"	"	"	
Cadmium	ND		0.0994	"	"	"	"	"	
Copper	ND		9.94	"	"	"	"	"	
Lead	5.98		0.994	"	"	"	"	"	
Nickel	4.26		0.994	"	"	"	"	"	
Selenium	ND		0.0994	"	"	"	"	"	
Silver	ND		0.0994	"	"	"	"	"	
Zinc	17.8		9.94	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-08@3'
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.6 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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

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 - HSR - Albertstein #16-23

FL-SS-08@3'
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.735		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-08@3'
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-05 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	6.55			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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SAR by 20B Saturated Paste

SAR	2.02		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.129		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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Table 915 metals by EPA 6020B

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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

FL-SS-08@3'
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402102-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.69		0.0945	mg/kg	10	B4B0516	02/06/2024	02/08/2024	
Barium	36.3		9.45	"	"	"	"	"	
Cadmium	ND		0.0945	"	"	"	"	"	
Copper	ND		9.45	"	"	"	"	"	
Lead	4.38		0.945	"	"	"	"	"	
Nickel	3.11		0.945	"	"	"	"	"	
Selenium	ND		0.0945	"	"	"	"	"	
Silver	ND		0.0945	"	"	"	"	"	
Zinc	13.7		9.45	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0633 - EPA 5030 (soil)

Blank (B4B0633-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	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 - HSR - Albertstein #16-23

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 B4B0633 - EPA 5030 (soil)

LCS (B4B0633-BS1)

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

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0958	0.00380	"	0.100		95.8	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 - HSR - Albertstein #16-23

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 B4B0633 - EPA 5030 (soil)

Matrix Spike (B4B0633-MS1)

Source: Y402155-01

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

1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00190	98.9	70-130			
Toluene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0633 - EPA 5030 (soil)

Matrix Spike Dup (B4B0633-MSD1)

Source: Y402155-01

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

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	7.80	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.51	20	
Benzene	0.108	0.00200	"	0.100	ND	108	70-130	14.5	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.42	20	
Naphthalene	0.105	0.00380	"	0.100	0.00190	103	70-130	3.70	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	13.7	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	9.49	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	8.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0701 - EPA 3550B

Blank (B4B0701-BLK1)

Prepared: 02/07/2024 Analyzed: 02/14/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.6	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 - HSR - Albertstein #16-23

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 B4B0701 - EPA 3550B

LCS (B4B0701-BS1)

Prepared: 02/07/2024 Analyzed: 02/14/2024

Diesel (C10-C28)	927	50.0	mg/kg	1000		92.7	70-130			
Residual Range Organics (C28-C40)	926	200	"	1000		92.6	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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 - HSR - Albertstein #16-23

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 B4B0701 - EPA 3550B

Matrix Spike (B4B0701-MS1)

Source: Y402102-01

Prepared: 02/07/2024 Analyzed: 02/14/2024

Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	904	200	"	1000	50.9	85.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	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 - HSR - Albertstein #16-23

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 B4B0701 - EPA 3550B

Matrix Spike Dup (B4B0701-MSD1)

Source: Y402102-01

Prepared: 02/07/2024 Analyzed: 02/14/2024

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	6.08	35	
Residual Range Organics (C28-C40)	941	200	"	1000	50.9	89.0	70-130	4.01	35	
Surrogate: o-Terphenyl	53		"	49.8		107	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 - HSR - Albertstein #16-23

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 B4B0237 - EPA 3050B

Blank (B4B0237-BLK1)

Prepared: 02/02/2024 Analyzed: 02/08/2024

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 (B4B0237-BS1)

Prepared: 02/02/2024 Analyzed: 02/08/2024

Arsenic	4.46	0.0100	mg/kg	5.00		89.2	80-120			
Barium	484	1.00	"	500		96.9	80-120			
Cadmium	5.18	0.0100	"	5.00		104	80-120			
Copper	49.8	1.00	"	50.0		99.5	80-120			
Lead	5.31	0.100	"	5.00		106	80-120			
Nickel	4.92	0.100	"	5.00		98.4	80-120			
Selenium	4.30	0.0100	"	5.00		86.0	80-120			
Silver	5.49	0.0100	"	5.00		110	80-120			
Zinc	43.7	1.00	"	50.0		87.3	80-120			

Matrix Spike (B4B0237-MS1)

Source: Y402092-03

Prepared: 02/02/2024 Analyzed: 02/08/2024

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0237 - EPA 3050B

Matrix Spike (B4B0237-MS1)

Source: Y402092-03

Prepared: 02/02/2024 Analyzed: 02/08/2024

Arsenic	6.55	0.0843	mg/kg	4.21	2.53	95.4	75-125			
Barium	522	8.43	"	421	73.9	106	75-125			
Cadmium	4.45	0.0843	"	4.21	0.153	102	75-125			
Copper	45.9	8.43	"	42.1	6.25	94.0	75-125			
Lead	13.7	0.843	"	4.21	9.79	93.7	75-125			
Nickel	9.23	0.843	"	4.21	6.46	65.8	75-125			QM-07
Selenium	4.06	0.0843	"	4.21	0.154	92.7	75-125			
Silver	4.31	0.0843	"	4.21	0.0353	101	75-125			
Zinc	63.2	8.43	"	42.1	27.4	84.8	75-125			

Matrix Spike Dup (B4B0237-MSD1)

Source: Y402092-03

Prepared: 02/02/2024 Analyzed: 02/08/2024

Arsenic	6.72	0.0943	mg/kg	4.72	2.53	88.7	75-125	2.46	20	
Barium	533	9.43	"	472	73.9	97.3	75-125	1.96	20	
Cadmium	4.96	0.0943	"	4.72	0.153	102	75-125	10.8	20	
Copper	50.2	9.43	"	47.2	6.25	93.2	75-125	9.07	20	
Lead	11.4	0.943	"	4.72	9.79	34.3	75-125	18.6	20	QM-07
Nickel	10.1	0.943	"	4.72	6.46	78.2	75-125	9.45	20	
Selenium	4.49	0.0943	"	4.72	0.154	91.9	75-125	10.0	20	
Silver	4.87	0.0943	"	4.72	0.0353	102	75-125	12.1	20	
Zinc	69.6	9.43	"	47.2	27.4	89.4	75-125	9.65	20	

Batch B4B0516 - EPA 3050B

Blank (B4B0516-BLK1)

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							

Origins Laboratory, Inc.

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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 - HSR - Albertstein #16-23

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 B4B0516 - EPA 3050B

Blank (B4B0516-BLK1)

Prepared: 02/06/2024 Analyzed: 02/08/2024

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

LCS (B4B0516-BS1)

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	4.47	0.0100	mg/kg	5.00		89.4	80-120			
Barium	501	1.00	"	500		100	80-120			
Cadmium	4.93	0.0100	"	5.00		98.6	80-120			
Copper	47.8	1.00	"	50.0		95.6	80-120			
Lead	5.28	0.100	"	5.00		106	80-120			
Nickel	4.97	0.100	"	5.00		99.3	80-120			
Selenium	4.37	0.0100	"	5.00		87.3	80-120			
Silver	5.26	0.0100	"	5.00		105	80-120			
Zinc	42.7	1.00	"	50.0		85.3	80-120			

Matrix Spike (B4B0516-MS1)

Source: Y402102-05

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	6.05	0.0887	mg/kg	4.44	1.69	98.3	75-125			
Barium	486	8.87	"	444	36.3	101	75-125			
Cadmium	4.75	0.0887	"	4.44	0.0756	105	75-125			
Copper	47.3	8.87	"	44.4	3.43	98.8	75-125			
Lead	8.99	0.887	"	4.44	4.38	104	75-125			
Nickel	7.77	0.887	"	4.44	3.11	105	75-125			
Selenium	4.35	0.0887	"	4.44	0.0889	96.0	75-125			
Silver	4.78	0.0887	"	4.44	0.0340	107	75-125			

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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 - HSR - Albertstein #16-23

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 B4B0516 - EPA 3050B

Matrix Spike (B4B0516-MS1)

Source: Y402102-05

Prepared: 02/06/2024 Analyzed: 02/08/2024

Zinc	56.8	8.87	mg/kg	44.4	13.7	97.2	75-125			
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Matrix Spike Dup (B4B0516-MSD1)

Source: Y402102-05

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	6.21	0.0882	mg/kg	4.41	1.69	103	75-125	2.64	20	
Barium	467	8.82	"	441	36.3	97.7	75-125	4.02	20	
Cadmium	4.60	0.0882	"	4.41	0.0756	103	75-125	3.23	20	
Copper	46.6	8.82	"	44.1	3.43	97.9	75-125	1.39	20	
Lead	8.95	0.882	"	4.41	4.38	104	75-125	0.459	20	
Nickel	7.77	0.882	"	4.41	3.11	106	75-125	0.0120	20	
Selenium	4.29	0.0882	"	4.41	0.0889	95.4	75-125	1.21	20	
Silver	4.63	0.0882	"	4.41	0.0340	104	75-125	3.10	20	
Zinc	59.2	8.82	"	44.1	13.7	103	75-125	4.19	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 - HSR - Albertstein #16-23

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 B4B0804 - EPA 3580

Prepared: 02/08/2024 Analyzed: 02/10/2024

Blank (B4B0804-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		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4B0804-BS1)

Prepared: 02/08/2024 Analyzed: 02/10/2024

1-Methylnaphthalene	0.173	0.002	mg/kg	0.200		86.4	70-130			
2-Methylnaphthalene	0.160	0.002	"	0.200		80.1	70-130			
Acenaphthene	0.167	0.020	"	0.200		83.3	70-130			
Anthracene	0.158	0.020	"	0.200		78.9	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 - HSR - Albertstein #16-23

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 B4B0804 - EPA 3580

LCS (B4B0804-BS1)

Prepared: 02/08/2024 Analyzed: 02/10/2024

Benzo (a) anthracene	0.149	0.005	mg/kg	0.200		74.7	70-130			
Benzo (a) pyrene	0.174	0.020	"	0.200		87.0	70-130			
Benzo (b) fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Benzo (g,h,i) perylene	0.182	0.020	"	0.200		91.0	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.8	70-130			
Chrysene	0.162	0.020	"	0.200		81.0	70-130			
Dibenz (a,h) anthracene	0.182	0.020	"	0.200		90.9	70-130			
Fluoranthene	0.161	0.020	"	0.200		80.4	70-130			
Fluorene	0.170	0.020	"	0.200		84.9	70-130			
Indeno (1,2,3-cd) pyrene	0.167	0.020	"	0.200		83.5	70-130			
Naphthalene	0.174	0.002	"	0.200		87.0	70-130			
Phenanthrene	0.157	0.020	"	0.200		78.5	70-130			
Pyrene	0.163	0.020	"	0.200		81.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4B0804-MS1)

Source: Y402102-01

Prepared: 02/08/2024 Analyzed: 02/10/2024

1-Methylnaphthalene	0.172	0.002	mg/kg	0.200	ND	85.9	70-130			
2-Methylnaphthalene	0.161	0.002	"	0.200	ND	80.6	70-130			
Acenaphthene	0.168	0.020	"	0.200	ND	84.0	70-130			
Anthracene	0.170	0.020	"	0.200	0.001	84.4	70-130			
Benzo (a) anthracene	0.149	0.005	"	0.200	ND	74.7	70-130			
Benzo (a) pyrene	0.177	0.020	"	0.200	ND	88.5	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	ND	89.0	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0804 - EPA 3580

Matrix Spike (B4B0804-MS1)

Source: Y402102-01

Prepared: 02/08/2024 Analyzed: 02/10/2024

Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	85.2	70-130			
Chrysene	0.168	0.020	"	0.200	ND	84.2	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	ND	90.3	70-130			
Fluoranthene	0.162	0.020	"	0.200	0.0004	80.8	70-130			
Fluorene	0.169	0.020	"	0.200	ND	84.7	70-130			
Indeno (1,2,3-cd) pyrene	0.172	0.020	"	0.200	ND	86.0	70-130			
Naphthalene	0.173	0.002	"	0.200	ND	86.6	70-130			
Phenanthrene	0.156	0.020	"	0.200	ND	78.0	70-130			
Pyrene	0.162	0.020	"	0.200	ND	81.1	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.8	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4B0804-MSD1)

Source: Y402102-01

Prepared: 02/08/2024 Analyzed: 02/10/2024

1-Methylnaphthalene	0.237	0.002	mg/kg	0.200	ND	119	70-130	32.0	20	QR-02
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130	30.5	20	QR-02
Acenaphthene	0.229	0.020	"	0.200	ND	115	70-130	30.8	20	QR-02
Anthracene	0.220	0.020	"	0.200	0.001	109	70-130	25.7	20	QR-02
Benzo (a) anthracene	0.211	0.005	"	0.200	ND	106	70-130	34.3	20	QR-02
Benzo (a) pyrene	0.245	0.020	"	0.200	ND	123	70-130	32.3	20	QR-02
Benzo (b) fluoranthene	0.256	0.020	"	0.200	ND	128	70-130	31.2	20	QR-02
Benzo (g,h,i) perylene	0.248	0.020	"	0.200	ND	124	70-130	33.0	20	QR-02
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	33.0	20	QR-02
Chrysene	0.227	0.020	"	0.200	ND	114	70-130	29.9	20	QR-02
Dibenz (a,h) anthracene	0.244	0.020	"	0.200	ND	122	70-130	29.9	20	QR-02
Fluoranthene	0.217	0.020	"	0.200	0.0004	108	70-130	28.8	20	QR-02

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B4B0804 - EPA 3580

Matrix Spike Dup (B4B0804-MSD1)

Source: Y402102-01

Prepared: 02/08/2024 Analyzed: 02/10/2024

Fluorene	0.235	0.020	mg/kg	0.200	ND	117	70-130	32.4	20	QR-02
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	ND	118	70-130	31.1	20	QR-02
Naphthalene	0.240	0.002	"	0.200	ND	120	70-130	32.3	20	QR-02
Phenanthrene	0.212	0.020	"	0.200	ND	106	70-130	30.7	20	QR-02
Pyrene	0.228	0.020	"	0.200	ND	114	70-130	33.6	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	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 - HSR - Albertstein #16-23

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 B4B0611 - Saturated Paste Metals

Blank (B4B0611-BLK1)

Prepared: 02/06/2024 Analyzed: 02/07/2024

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 (B4B0611-DUP1)

Source: Y402098-01

Prepared: 02/06/2024 Analyzed: 02/07/2024

SAR	ND	0.0100	SAR	0.163				200		
Calcium PPM	7.97	10.0	mg/L	8.16				2.36	50	
Magnesium PPM	2.18	10.0	"	2.33				6.65	50	
Sodium PPM	2.22	10.0	"	2.05				7.96	50	

Batch B4B0813 - DTPA Sorbitol Preparation

Blank (B4B0813-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4B0813-DUP1)

Source: Y402054-01

Prepared: 02/08/2024 Analyzed: 02/09/2024

Boron	2.83	0.0996	mg/L	2.85				0.747	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 - HSR - Albertstein #16-23

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 B4B0612 - Saturated Paste pH/EC

Blank (B4B0612-BLK1)

Prepared: 02/06/2024 Analyzed: 02/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B0612-DUP1)

Source: Y402098-01

Prepared: 02/06/2024 Analyzed: 02/07/2024

Specific Conductance (EC) 0.174 0.00500 mmhos/cm 0.197 12.3 25

pH 8.41 pH Units 8.43 0.238 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 - HSR - Albertstein #16-23

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 L732147 -

DUP (L 82297-DUP)

Source: Y402102-01

Prepared: Analyzed: 02/09/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 82297-MS)

Source: Y402102-01

Prepared: Analyzed: 02/09/2024

Chromium, Hexavalent	29.3	2.5	mg/Kg	38.8	< 0.244	76	75-125		
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LCS (LCS)

Prepared: Analyzed: 02/09/2024

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

Prepared: Analyzed: 02/09/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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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 on a wet weight basis.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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