



January 12, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Irvine #2-11

Project Number - [none]

Attached are your analytical results for Noble - Irvine #2-11 received by Origins Laboratory, Inc. December 12, 2023. This project is associated with Origins project number Y312365-01.

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 - Irvine #2-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-02@4	Y312365-01	Soil	December 12, 2023 16:12	12/12/2023 18:00
Background-02@2	Y312365-02	Soil	December 12, 2023 16:06	12/12/2023 18:00

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 - Irvine #2-11

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 of page

ORIGINS LABORATORY, INC

Client: EMERALD AT MOUNTAIN COUNTRY
 Project Manager: ANDREW NEWBERRY
 Address: 3000 W 44TH AVE
 Project Name: EMERALD #2-11
 Telephone Number: 303-565-9645
 Email Address: ANDREW@EMERALDCOUNTRY.COM
 Project Number: EMERALD #2-11
 Samples Collected By: ANDREW NEWBERRY

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions	
BRAS 0001	12/11/23	11:00	3	HNO3	Soil	Asbestos Pb Cd Cr Cu Fe Mn Ni Zn	1	
BRAS 0002	12/11/23	11:00	2	HNO3	Soil	Asbestos Pb Cd Cr Cu Fe Mn Ni Zn	2	
								3
								4
								5
								6
								7
								8
								9
								10

Relinquished By: [Signature] Date: 12/11/23 Time: 11:00
 Relinquished By: [Signature] Date: 12/12/23 Time: 1:00

Received By: [Signature] Date: 12/12/23 Time: 1:00
 Received By: [Signature] Date: 12/12/23 Time: 1:00

Temp Received: 35 Date Results Needed: 12/12/23

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 - Irvine #2-11

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

Sample Receipt Checklist

Origins Work Order: MB2225 Client: Eagle
 Client Project ID: Irvine 2-11

Checklist Completed by: JAH/EHS Shipped Via: FID
 Date/Time Completed: 12/13/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: L 3.5 °C °C °C (Describe) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTS due within 48 hours present ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/14/23

Origins Laboratory, Inc.

[Signature]

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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 - Irvine #2-11

FL-SS-02@4'
12/12/2023 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312365-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.485		0.0997	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1402	12/14/2023	12/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.9% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1433	12/14/2023	12/18/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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12/12/2023 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312365-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B3L14 33	12/14/2023	12/18/2023	
Surrogate: Toluene-d8	96.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.71		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	0.865		0.823	"	"	"	"	"	
Sodium	0.599		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1320	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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FL-SS-02@4'
12/12/2023 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312365-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3L1320	12/13/2023	12/16/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B3L1416	12/14/2023	12/15/2023	
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SAR by 20B Saturated Paste

SAR	0.527		0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.356		0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023	
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Total Metals by 6020B

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FL-SS-02@4'
12/12/2023 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312365-01 (Soil)

Total Metals by 6020B

Arsenic	3.77	0.0855	0.25	mg/Kg	5	L724030	12/21/2023	01/11/2024	
Barium	104	0.042	0.25	"	"	"	"	"	
Cadmium	0.272	0.026	0.25	"	"	"	"	"	
Copper	10.3	0.0805	0.25	"	"	"	"	"	
Lead	9.38	0.031	0.25	"	"	"	"	"	
Nickel	10	0.0635	0.25	"	"	"	"	"	
Selenium	0.831	0.103	0.25	"	"	"	"	"	
Silver	0.0569	0.0067	0.25	"	"	"	"	"	J
Zinc	43.9	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L723603	12/12/2023	12/20/2023	
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 Project: Noble - Irvine #2-11

Background-02@2'
12/12/2023 4:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312365-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.48		0.100	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.78		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	1.38		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B3L1416	12/14/2023	12/15/2023	
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SAR by 20B Saturated Paste

SAR	0.799		0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.965		0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	3.92	0.0855	0.25	mg/Kg	5	L724030	12/21/2023	01/11/2024	
Barium	88.1	0.042	0.25	"	"	"	"	"	
Cadmium	0.248	0.026	0.25	"	"	"	"	"	J
Copper	15	0.0805	0.25	"	"	"	"	"	

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 Wheat Ridge CO 80033

Andrew Newberry
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Background-02@2'
12/12/2023 4:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312365-02 (Soil)

Total Metals by 6020B

Lead	9.61	0.031	0.25	mg/Kg	5	L724030	12/21/2023	01/11/2024	
Nickel	8.95	0.0635	0.25	"	"	"	"	"	
Selenium	0.756	0.103	0.25	"	"	"	"	"	
Silver	0.0466	0.0067	0.25	"	"	"	"	"	J
Zinc	55.5	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L723603	12/12/2023	12/20/2023	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3L1402 - EPA 3550B

Blank (B3L1402-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.1	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 B3L1402 - EPA 3550B

LCS (B3L1402-BS1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000		94.4	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.6	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 B3L1402 - EPA 3550B

Matrix Spike (B3L1402-MS1)

Source: Y312359-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	2570	50.0	mg/kg	1000	1180	140	70-130			QM-07
Residual Range Organics (C28-C40)	2040	200	"	1000	788	125	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	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 B3L1402 - EPA 3550B

Matrix Spike Dup (B3L1402-MSD1)

Source: Y312359-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	2360	50.0	mg/kg	1000	1180	118	70-130	8.78	35	
Residual Range Organics (C28-C40)	1950	200	"	1000	788	116	70-130	4.47	35	
Surrogate: o-Terphenyl	44		"	49.8		88.5	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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Batch B3L1433 - EPA 5030 (soil)

Prepared: 12/14/2023 Analyzed: 12/18/2023

Blank (B3L1433-BLK1)

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	0.12		"	0.125		94.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	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 B3L1433 - EPA 5030 (soil)

LCS (B3L1433-BS1)

Prepared: 12/14/2023 Analyzed: 12/18/2023

1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Benzene	0.0917	0.00200	"	0.100		91.7	70-130			
Ethylbenzene	0.0860	0.00200	"	0.100		86.0	70-130			
Naphthalene	0.0837	0.00380	"	0.100		83.7	70-130			
Toluene	0.0846	0.00200	"	0.100		84.6	70-130			
o-Xylene	0.0877	0.00200	"	0.100		87.7	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	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 - Irvine #2-11

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 B3L1433 - EPA 5030 (soil)

Matrix Spike (B3L1433-MS1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/18/2023

1,2,4-Trimethylbenzene	0.0795	0.00200	mg/kg	0.100	ND	79.5	70-130			
1,3,5-Trimethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130			
Benzene	0.0879	0.00200	"	0.100	0.000900	87.0	70-130			
Ethylbenzene	0.0768	0.00200	"	0.100	ND	76.8	70-130			
Naphthalene	0.0816	0.00380	"	0.100	ND	81.6	70-130			
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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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 - Irvine #2-11

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 B3L1433 - EPA 5030 (soil)

Matrix Spike Dup (B3L1433-MSD1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/18/2023

1,2,4-Trimethylbenzene	0.0908	0.00200	mg/kg	0.100	ND	90.8	70-130	13.2	20	
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130	13.0	20	
Benzene	0.0998	0.00200	"	0.100	0.000900	98.9	70-130	12.7	20	
Ethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	15.0	20	
Naphthalene	0.0954	0.00380	"	0.100	ND	95.4	70-130	15.7	20	
Toluene	0.0904	0.00200	"	0.100	ND	90.4	70-130	13.3	20	
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130	13.6	20	
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130	14.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	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 - Irvine #2-11

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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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 B3L1320 - EPA 3580

Blank (B3L1320-BLK1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

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	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		92.9	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	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 - Irvine #2-11

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 B3L1320 - EPA 3580

LCS (B3L1320-BS1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		106	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.9	70-130			
Anthracene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (a) anthracene	0.219	0.005	"	0.200		109	70-130			
Benzo (a) pyrene	0.211	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.6	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.6	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		84.2	70-130			
Chrysene	0.182	0.020	"	0.200		90.9	70-130			
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Fluorene	0.208	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200		118	70-130			
Naphthalene	0.201	0.002	"	0.200		101	70-130			
Phenanthrene	0.184	0.020	"	0.200		91.9	70-130			
Pyrene	0.187	0.020	"	0.200		93.5	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B3L1320-MS1)

Source: Y312293-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130			
Anthracene	0.184	0.020	"	0.200	ND	92.1	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 - Irvine #2-11

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 B3L1320 - EPA 3580

Matrix Spike (B3L1320-MS1)

Source: Y312293-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200	ND	98.4	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	97.1	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200	0.004	94.5	70-130			
Chrysene	0.192	0.020	"	0.200	ND	96.2	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	ND	107	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.006	103	70-130			
Fluorene	0.212	0.020	"	0.200	ND	106	70-130			
Indeno (1,2,3-cd) pyrene	0.241	0.020	"	0.200	ND	121	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.192	0.020	"	0.200	0.003	94.7	70-130			
Pyrene	0.188	0.020	"	0.200	0.005	91.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3L1320-MSD1)

Source: Y312293-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	110	70-130	4.13	20	
2-Methylnaphthalene	0.216	0.002	"	0.200	ND	108	70-130	3.09	20	
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130	2.07	20	
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130	2.86	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	7.48	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	0.461	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.002	96.0	70-130	1.07	20	
Benzo (g,h,i) perylene	0.222	0.020	"	0.200	ND	111	70-130	1.85	20	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3L1320 - EPA 3580

Matrix Spike Dup (B3L1320-MSD1)

Source: Y312293-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	0.004	86.7	70-130	8.50	20	
Chrysene	0.199	0.020	"	0.200	ND	99.3	70-130	3.15	20	
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130	3.14	20	
Fluoranthene	0.210	0.020	"	0.200	0.006	102	70-130	0.862	20	
Fluorene	0.220	0.020	"	0.200	ND	110	70-130	3.65	20	
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.7	70-130	18.9	20	
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130	2.70	20	
Phenanthrene	0.195	0.020	"	0.200	0.003	96.3	70-130	1.68	20	
Pyrene	0.197	0.020	"	0.200	0.005	96.4	70-130	4.64	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	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 - Irvine #2-11

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 B3L1413 - Saturated Paste Metals

Blank (B3L1413-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

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 (B3L1413-DUP1)

Source: Y312355-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Calcium PPM	24.8	10.0	mg/L		24.8			0.00	50	
SAR	ND	0.0100	SAR		0.0993				200	
Magnesium PPM	4.83	10.0	mg/L		4.93			2.05	50	
Sodium PPM	1.96	10.0	"		2.07			5.46	50	

Batch B3L1517 - DTPA Sorbitol Preparation

Blank (B3L1517-BLK1)

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3L1517-DUP1)

Source: Y312365-01

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	0.505	0.0989	mg/L		0.485			4.02	50	
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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 - Irvine #2-11

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 B3L1416 - Saturated Paste pH/EC

Blank (B3L1416-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3L1416-DUP1)

Source: Y312355-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

pH 8.26 pH Units 8.25 0.121 25

Specific Conductance (EC) 0.214 0.00500 mmhos/cm 0.219 2.59 25

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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 - Irvine #2-11

Total Metals by 6020B - 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 L724030 - 3050B

MSD (L 87161-MSD-L724030)

Source: Y312365-02

Prepared: 12/21/2023 Analyzed: 01/11/2024

Barium	88.2	0.25	mg/Kg	4.8	88.1	2	75-125	3.1	80	*
Silver	0.523	0.25	"	0.48	0.0466	99	75-125	7.5	80	
Selenium	4.86	0.25	"	4.8	0.756	86	75-125	9	80	
Nickel	10.1	0.25	"	2.4	8.95	48	75-125	12	80	*
Lead	10.7	0.25	"	2.4	9.61	45	75-125	7.2	80	*
Cadmium	0.708	0.25	"	0.48	0.248	96	75-125	196	80	*
Zinc	72.6	2.5	"	24	55.5	71	75-125	10.3	80	*
Arsenic	5.52	0.25	"	2.4	3.92	67	75-125	3.7	80	*
Copper	15.9	0.25	"	2.4	15	38	75-125	12.9	80	*

MS (L 87161-MS-L724030)

Source: Y312365-02

Prepared: 12/21/2023 Analyzed: 01/11/2024

Copper	18.1	0.25	mg/Kg	2.43	15	127	75-125			*
Silver	0.564	0.25	"	0.487	0.0466	106	75-125			
Zinc	80.5	2.5	"	24.3	55.5	103	75-125			
Selenium	5.32	0.25	"	4.87	0.756	94	75-125			
Nickel	11.4	0.25	"	2.43	8.95	101	75-125			
Lead	11.5	0.25	"	2.43	9.61	78	75-125			
Cadmium	80	0.25	"	0.487	0.248	NR	75-125			*
Arsenic	5.73	0.25	"	2.43	3.92	74	75-125			*
Barium	91	0.25	"	4.87	88.1	60	75-125			*

LCS (LCS-L724030)

Prepared: 12/21/2023 Analyzed: 01/11/2024

Silver	0.514	0.25	mg/Kg	0.5		103	80-120			
Selenium	5.19	0.25	"	5		104	80-120			
Zinc	25.4	2.5	"	25		102	80-120			
Arsenic	2.58	0.25	"	2.5		103	80-120			
Barium	5.14	0.25	"	5		103	80-120			

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 - Irvine #2-11

Total Metals by 6020B - 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 L724030 - 3050B

Prepared: 12/21/2023 Analyzed: 01/11/2024

LCS (LCS-L724030)

Cadmium	0.501	0.25	mg/Kg	0.5	100	80-120
Copper	2.62	0.25	"	2.5	105	80-120
Lead	2.52	0.25	"	2.5	101	80-120
Nickel	2.6	0.25	"	2.5	104	80-120

LRB (LRB-L724030)

Prepared: 12/21/2023 Analyzed: 01/11/2024

Barium	ND	0.25	mg/Kg	-	-	-
Silver	ND	0.25	"	-	-	-
Selenium	ND	0.25	"	-	-	-
Nickel	ND	0.25	"	-	-	-
Lead	ND	0.25	"	-	-	-
Cadmium	ND	0.25	"	-	-	-
Arsenic	ND	0.25	"	-	-	-
Zinc	ND	2.5	"	-	-	-
Copper	ND	0.25	"	-	-	-

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 - Irvine #2-11

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 L723603 -

DUP (L 87161-DUP)

Source: Y312365-02

Prepared: Analyzed: 12/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
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MS (L 87161-MS)

Source: Y312365-02

Prepared: Analyzed: 12/20/2023

Chromium, Hexavalent	16	2.57	mg/Kg	41.1	<1.25	39	75-125			*
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LCS (LCS)

Prepared: Analyzed: 12/20/2023

Chromium, Hexavalent	7.16	0.5	mg/Kg	8		90	75-125			
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LRB (LRB)

Prepared: Analyzed: 12/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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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 - Irvine #2-11

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Estimated Value. Analyte below reported quantitation limit.
 - * 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.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.