



October 30, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Boulter #14-14G

Project Number - [none]

Attached are your analytical results for Noble - Boulter #14-14G received by Origins Laboratory, Inc. September 27, 2023. This project is associated with Origins project number Y309704-01.

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Boulder #14-14G

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y309704-01	Soil	September 27, 2023 13:00	09/27/2023 16:30
FL-SS-02@3'	Y309704-02	Soil	September 27, 2023 13:20	09/27/2023 16:30
FL-SS-03@4'	Y309704-03	Soil	September 27, 2023 13:40	09/27/2023 16:30
FL-SS-04@5'	Y309704-04	Soil	September 27, 2023 14:00	09/27/2023 16:30
FL-SS-05@3'	Y309704-05	Soil	September 27, 2023 15:00	09/27/2023 16:30

Chain of Custody Modification Request

On 10/10/2023, Kendra Marcum from Eagle Environmental contacted Jordan Bynon via email regarding Y309704 requesting that the project name be revised to Boulder #14-14G and that 915 Metals be added to FL-SS-04@5'. Requested modifications to the chain of custody were made by Jordan Bynon on 10/10/2023.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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

Sample Receipt Checklist

Origins Work Order: Y309704 Client: Eagle
 Client Project ID: Boulder 14-14G

Checklist Completed by: JG Shipped Via: HS
 Date/time completed: 9/28/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

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

Cooler Number/Temperature: 1160 °C °C °C °C

Thermometer ID: T001

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 sub-sampled analytes 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): JG Date/Time Reviewed: 9-29-23

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-01@3'
 9/27/2023 1:00:00PM

Origins Laboratory, Inc.
Y309704-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.159		0.0990	mg/L	1	B3J0308	10/03/2023	10/04/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2802	09/28/2023	10/02/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	89.9 %		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2928	09/29/2023	10/01/2023	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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-01@3'
9/27/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3/292 8	09/29/2023	10/01/2023	
Surrogate: Toluene-d8	98.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.613		0.499	meq/L	10	[CALC]	10/02/2023	10/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707994	10/02/2023	10/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000655	0.000614	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-01@3'
9/27/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309704-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L707994	10/02/2023	10/03/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000652	0.000627	0.00067	"	"	"	"	"	J
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.9 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	50.8 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	42 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.50			pH Units	1	B3J0213	10/02/2023	10/03/2023	
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SAR by 20B Saturated Paste

SAR	0.325	0.0100		SAR	1	B3J0206	10/02/2023	10/04/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.317	0.00500		mmhos/cm	1	B3J0213	10/02/2023	10/03/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-02@3'
9/27/2023 1:20:00PM

Origins Laboratory, Inc.
Y309704-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.729		0.0982	mg/L	1	B3J0308	10/03/2023	10/04/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2802	09/28/2023	10/02/2023	U
Residual Range Organics (C28-C40)	179		100	"	"	"	"	"	"
Surrogate: o-Terphenyl	87.5%		50-150	"	"	"	"	"	"
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2928	09/29/2023	10/01/2023	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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-02@3'
9/27/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3/292 8	09/29/2023	10/01/2023	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.39		0.499	meq/L	10	[CALC]	10/02/2023	10/04/2023	
Magnesium	3.28		0.823	"	"	"	"	"	
Sodium	7.58		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707994	10/02/2023	10/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00433	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00792	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00626	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00265	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00539	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000948	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00498	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-02@3'
9/27/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309704-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L707994	10/02/2023	10/03/2023	
Indeno(1,2,3-cd)pyrene	0.00572	0.000627	0.00067	"	"	"	"	"	"
Pyrene	0.00418	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.3 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	45.9 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	41.1 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.19			pH Units	1	B3J0213	10/02/2023	10/03/2023	
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SAR by 20B Saturated Paste

SAR	4.51		0.0100	SAR	1	B3J0206	10/02/2023	10/04/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.42		0.00500	mmhos/cm	1	B3J0213	10/02/2023	10/03/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-03@4'

9/27/2023 1:40:00PM

Origins Laboratory, Inc.
Y309704-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	1.23		0.0981	mg/L	1	B3J0308	10/03/2023	10/04/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2802	09/28/2023	10/02/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.3%		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2928	09/29/2023	10/01/2023	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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-03@4'

9/27/2023 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B3/292 8	09/29/2023	10/01/2023	
Surrogate: Toluene-d8	99.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.20		0.499	meq/L	10	[CALC]	10/02/2023	10/04/2023	
Magnesium	3.62		0.823	"	"	"	"	"	
Sodium	10.0		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707994	10/02/2023	10/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-03@4'

9/27/2023 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y309704-03 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L707994	10/02/2023	10/03/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	42 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	45.3 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	39.3 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.26			pH Units	1	B3J0213	10/02/2023	10/03/2023	
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SAR by 20B Saturated Paste

SAR	6.44	0.0100		SAR	1	B3J0206	10/02/2023	10/04/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.45	0.00500		mmhos/cm	1	B3J0213	10/02/2023	10/03/2023	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-04@5'
9/27/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.32		0.0998	mg/L	1	B3J0308	10/03/2023	10/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	943		25.0	mg/kg	1	B312802	09/28/2023	10/02/2023	
Residual Range Organics (C28-C40)	179		100	"	"	"	"	"	

Surrogate: o-Terphenyl	84.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	31.1		0.500	mg/kg	250	B312928	09/29/2023	10/06/2023	
1,3,5-Trimethylbenzene	0.0114		0.00200	"	1	"	"	10/01/2023	
Benzene	0.814		0.0500	"	25	"	"	10/03/2023	
Ethylbenzene	2.12		0.0500	"	"	"	"	"	
Naphthalene	0.196		0.00380	"	1	"	"	10/01/2023	
Toluene	0.00240		0.00200	"	"	"	"	"	
Xylenes, total	0.411		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	482		5.00	"	25	"	"	10/03/2023	

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	143 %		70-130			"	"	"	S-GC

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-04@5'
 9/27/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			B3/292 8	09/29/2023	10/03/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.11		0.499	meq/L	10	[CALC]	10/02/2023	10/04/2023	
Magnesium	2.76		0.823	"	"	"	"	"	
Sodium	4.48		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.538	0.00109	0.00201	mg/Kg	1	L707994	10/02/2023	10/03/2023	
2-Methylnaphthalene	1.22	0.00972	0.0101	"	5	"	"	"	
Acenaphthene	0.0437	0.000304	0.00067	"	1	"	"	"	
Anthracene	0.109	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00299	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0144	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000776	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0443	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-04@5'
9/27/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309704-04 (Soil)

PAH by 8270D SIM

Pyrene	0.00736	0.000643	0.00067	mg/Kg	1	L707994	10/02/2023	10/03/2023	
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Surrogate: 2-Fluorobiphenyl	38.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	50.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	36.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B3J0213	10/02/2023	10/03/2023	
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SAR by 20B Saturated Paste

SAR	3.22		0.0100	SAR	1	B3J0206	10/02/2023	10/04/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.733		0.00500	mmhos/cm	1	B3J0213	10/02/2023	10/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.66		0.0891	mg/kg	10	B3J1018	10/10/2023	10/13/2023	
Barium	58.7		8.91	"	"	"	"	"	
Cadmium	0.110		0.0891	"	"	"	"	"	
Copper	ND		8.91	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-04@5'
9/27/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.91	mg/kg	10	B3J1018	10/10/2023	10/13/2023	U
Nickel	ND		8.91	"	"	"	"	"	U
Selenium	0.440		0.0891	"	"	"	"	"	
Silver	ND		0.0891	"	"	"	"	"	U
Zinc	ND		89.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L713313	09/27/2023	10/26/2023	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-05@3'

9/27/2023 3:00:00PM

Origins Laboratory, Inc.
Y309704-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.312		0.0986	mg/L	1	B3J0308	10/03/2023	10/04/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2802	09/28/2023	10/02/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	85.1 %		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2928	09/29/2023	10/03/2023	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	1.60		0.200	"	"	"	"	10/01/2023	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-05@3'
 9/27/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309704-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			B3/292 8	09/29/2023	10/03/2023	
Surrogate: Toluene-d8	99.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.42		0.499	meq/L	10	[CALC]	10/02/2023	10/04/2023	
Magnesium	0.913		0.823	"	"	"	"	"	
Sodium	1.18		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707994	10/02/2023	10/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

FL-SS-05@3'
 9/27/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309704-05 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L707994	10/02/2023	10/03/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	36.8 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	43.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	34.7 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.13			pH Units	1	B3J0213	10/02/2023	10/03/2023	
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SAR by 20B Saturated Paste

SAR	1.09	0.0100		SAR	1	B3J0206	10/02/2023	10/04/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.374	0.00500		mmhos/cm	1	B3J0213	10/02/2023	10/03/2023	
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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312802 - EPA 3550B

Blank (B312802-BLK1)

Prepared: 09/28/2023 Analyzed: 10/02/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.4	50-150			

Origins Laboratory, Inc.

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312802 - EPA 3550B

LCS (B312802-BS1)

Prepared: 09/28/2023 Analyzed: 10/02/2023

Diesel (C10-C28)	984	50.0	mg/kg	1000		98.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

Origins Laboratory, Inc.

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312802 - EPA 3550B

Matrix Spike (B312802-MS1)

Source: Y309632-01

Prepared: 09/28/2023 Analyzed: 10/02/2023

Diesel (C10-C28)	964	50.0	mg/kg	1000	ND	96.4	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.2	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312802 - EPA 3550B

Matrix Spike Dup (B312802-MSD1)

Source: Y309632-01

Prepared: 09/28/2023 Analyzed: 10/02/2023

Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130	0.149	35	
Residual Range Organics (C28-C40)	969	200	"	1000	ND	96.9	70-130	5.77	35	
Surrogate: o-Terphenyl	44		"	49.8		89.0	50-150			

Origins Laboratory, Inc.

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312928 - EPA 5030 (soil)

Prepared: 09/29/2023 Analyzed: 10/01/2023

Blank (B312928-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	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312928 - EPA 5030 (soil)

LCS (B312928-BS1)

Prepared: 09/29/2023 Analyzed: 10/01/2023

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312928 - EPA 5030 (soil)

Matrix Spike (B312928-MS1)

Source: Y309661-01

Prepared: 09/29/2023 Analyzed: 10/01/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0947	0.00380	"	0.100	ND	94.7	70-130			
Toluene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	91.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B312928 - EPA 5030 (soil)

Matrix Spike Dup (B312928-MSD1)

Source: Y309661-01

Prepared: 09/29/2023 Analyzed: 10/01/2023

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	8.08	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	7.73	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	6.86	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	7.42	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	9.30	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	6.03	20	
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130	8.52	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130	8.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1018 - EPA 3050B

Blank (B3J1018-BLK1)

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B3J1018-BS1)

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	0.0452	0.000100	mg/kg	0.0500		90.4	80-120			
Barium	5.02	0.0100	"	5.00		100	80-120			
Cadmium	0.0508	0.000100	"	0.0500		102	80-120			
Copper	0.538	0.0100	"	0.500		108	80-120			
Lead	0.0494	0.0100	"	0.0500		98.8	80-120			
Nickel	0.0498	0.0100	"	0.0500		99.6	80-120			
Selenium	0.0498	0.000100	"	0.0500		99.6	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.508	0.100	"	0.500		102	80-120			

Matrix Spike (B3J1018-MS1)

Source: Y310254-01

Prepared: 10/10/2023 Analyzed: 10/13/2023

Origins Laboratory, Inc.

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B3J1018 - EPA 3050B

Matrix Spike (B3J1018-MS1)

Source: Y310254-01

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	5.64	0.0927	mg/kg	4.64	1.20	95.7	75-125			
Barium	495	9.27	"	464	57.3	94.5	75-125			
Cadmium	4.69	0.0927	"	4.64	0.0466	100	75-125			
Copper	52.7	9.27	"	46.4	3.08	107	75-125			
Lead	7.24	9.27	"	4.64	11.0	NR	75-125			QM-07, U
Nickel	6.57	9.27	"	4.64	2.56	86.4	75-125			U
Selenium	4.61	0.0927	"	4.64	ND	99.4	75-125			
Silver	4.67	0.0927	"	4.64	0.00373	101	75-125			
Zinc	59.0	92.7	"	46.4	13.5	98.2	75-125			U

Matrix Spike Dup (B3J1018-MSD1)

Source: Y310254-01

Prepared: 10/10/2023 Analyzed: 10/13/2023

Arsenic	5.44	0.0935	mg/kg	4.67	1.20	90.7	75-125	3.61	20	
Barium	471	9.35	"	467	57.3	88.5	75-125	5.04	20	
Cadmium	4.42	0.0935	"	4.67	0.0466	93.5	75-125	6.05	20	
Copper	50.0	9.35	"	46.7	3.08	100	75-125	5.12	20	
Lead	12.0	9.35	"	4.67	11.0	20.0	75-125	49.2	20	QM-07
Nickel	6.55	9.35	"	4.67	2.56	85.3	75-125	0.297	20	U
Selenium	4.35	0.0935	"	4.67	ND	93.1	75-125	5.79	20	
Silver	4.43	0.0935	"	4.67	0.00373	94.6	75-125	5.36	20	
Zinc	57.9	93.5	"	46.7	13.5	95.2	75-125	1.85	20	U

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B3J0206 - Saturated Paste Metals

Blank (B3J0206-BLK1)

Prepared: 10/02/2023 Analyzed: 10/04/2023

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

Duplicate (B3J0206-DUP1)

Source: Y309678-19

Prepared: 10/02/2023 Analyzed: 10/04/2023

Calcium PPM	117	10.0	mg/L		113			3.34	50	
SAR	ND	0.0100	SAR		1.53				200	U
Magnesium PPM	49.9	10.0	mg/L		48.5			2.86	50	
Sodium PPM	74.8	10.0	"		77.3			3.28	50	

Batch B3J0308 - DTPA Sorbitol Preparation

Blank (B3J0308-BLK1)

Prepared: 10/03/2023 Analyzed: 10/04/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3J0308-DUP1)

Source: Y309685-02

Prepared: 10/03/2023 Analyzed: 10/04/2023

Boron	0.382	0.0999	mg/L		0.319			18.1	50	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B3J0213 - Saturated Paste pH/EC

Blank (B3J0213-BLK1)

Prepared: 10/02/2023 Analyzed: 10/03/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3J0213-DUP1)

Source: Y309678-19

Prepared: 10/02/2023 Analyzed: 10/03/2023

pH	7.91		pH Units	8.00		1.13		25		
Specific Conductance (EC)	1.48	0.00500	mmhos/cm	1.41		5.08		25		

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 L713313 -

DUP (L 97101-DUP)

Source: 97101

Prepared: Analyzed: 10/26/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 97101-MS)

Source: 97101

Prepared: Analyzed: 10/26/2023

Chromium, Hexavalent	32.1	2.5	mg/Kg	39.4	<1.22	81	75-125		
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LCS (LCS)

Prepared: Analyzed: 10/26/2023

Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125		
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LRB (LRB)

Prepared: Analyzed: 10/26/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

PAH by 8270D SIM - 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 L707994 - 3550B

MSD (L 84181-MSD-L707994)

Source: 84181

Prepared: 10/02/2023 Analyzed: 10/03/2023

Fluoranthene	0.0917	0.00067	mg/Kg	0.163	<0.000394	56.2	30-130	8.4	30	
Benzo(a)pyrene	0.0913	0.00067	"	0.163	<0.000468	56	30-130	10	30	
Pyrene	0.0899	0.00067	"	0.163	<0.000643	55.1	30-130	5.4	30	
1-Methylnaphthalene	0.0821	0.00201	"	0.163	<0.00109	50.3	30-130	10.3	30	
Fluorene	0.0889	0.00067	"	0.163	<0.000286	54.5	30-130	9.4	30	
Benzo(b)fluoranthene	0.0774	0.00067	"	0.163	<0.000585	47.4	30-130	22.8	30	
Dibenz(a,h)anthracene	0.121	0.00067	"	0.163	<0.000614	74.2	30-130	18	30	
Benzo(k)fluoranthene	0.0726	0.00067	"	0.163	<0.000437	44.5	30-130	9.2	30	
2-Methylnaphthalene	0.0825	0.00201	"	0.163	<0.00194	50.6	30-130	9.7	30	
Acenaphthene	0.0857	0.00067	"	0.163	<0.000304	52.5	30-130	9.8	30	
Chrysene	0.091	0.00067	"	0.163	<0.000624	55.8	30-130	9.4	30	
Benzo(a)anthracene	0.0912	0.00067	"	0.163	<0.000493	55.9	30-130	8.5	30	
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.163	<0.000627	71.1	30-130	20.5	30	
Anthracene	0.0857	0.00067	"	0.163	<0.000334	52.5	30-130	11.4	30	
Surrogate: Nitrobenzene-d5	42.5		"	0.327	139	42.5	29-110			
Surrogate: 2-Fluorobiphenyl	47		"	0.327	151	47	33-115			
Surrogate: 4-Terphenyl-d14	50.7		"	0.327	164	50.7	33-122			

MS (L 84181-MS-L707994)

Source: 84181

Prepared: 10/02/2023 Analyzed: 10/03/2023

2-Methylnaphthalene	0.091	0.00201	mg/Kg	0.167	<0.00194	54.4	30-130			
Chrysene	0.1	0.00067	"	0.167	<0.000624	59.8	30-130			
Dibenz(a,h)anthracene	0.101	0.00067	"	0.167	<0.000614	60.4	30-130			
Fluoranthene	0.0998	0.00067	"	0.167	<0.000394	59.7	30-130			
Pyrene	0.0949	0.00067	"	0.167	<0.000643	56.8	30-130			
Fluorene	0.0977	0.00067	"	0.167	<0.000286	58.5	30-130			
Benzo(k)fluoranthene	0.0662	0.00067	"	0.167	<0.000437	39.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0944	0.00067	"	0.167	<0.000627	56.5	30-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

PAH by 8270D SIM - 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 L707994 - 3550B

MS (L 84181-MS-L707994)

Source: 84181

Prepared: 10/02/2023 Analyzed: 10/03/2023

Acenaphthene	0.0946	0.00067	mg/Kg	0.167	<0.000304	56.6	30-130			
Benzo(a)pyrene	0.101	0.00067	"	0.167	<0.000468	60.4	30-130			
Benzo(a)anthracene	0.0993	0.00067	"	0.167	<0.000493	59.4	30-130			
Anthracene	0.0961	0.00067	"	0.167	<0.000334	57.5	30-130			
1-Methylnaphthalene	0.0911	0.00201	"	0.167	<0.00109	54.5	30-130			
Benzo(b)fluoranthene	0.0615	0.00067	"	0.167	<0.000585	36.8	30-130			

Surrogate: Nitrobenzene-d5	42		"	0.333	139	42	29-110			
Surrogate: 4-Terphenyl-d14	50.4		"	0.333	164	50.4	33-122			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.333	151	47.7	33-115			

LCS (LCS-L707994)

Prepared: 10/02/2023 Analyzed: 10/03/2023

Benzo(k)fluoranthene	0.081	0.00067	mg/Kg	0.167		48.5	30-130			
Chrysene	0.117	0.00067	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluorene	0.11	0.00067	"	0.167		65.8	30-130			
Benzo(b)fluoranthene	0.0896	0.00067	"	0.167		53.6	30-130			
Pyrene	0.11	0.00067	"	0.167		65.8	30-130			
Fluoranthene	0.113	0.00067	"	0.167		67.6	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Anthracene	0.109	0.00067	"	0.167		65.2	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.00067	"	0.167		73	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130			

Surrogate: Nitrobenzene-d5	50.7		"	0.333		50.7	29-110			
Surrogate: 4-Terphenyl-d14	60.3		"	0.333		60.3	33-122			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Boulder #14-14G

PAH by 8270D SIM - 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 L707994 - 3550B

LCS (LCS-L707994)

Prepared: 10/02/2023 Analyzed: 10/03/2023

Surrogate: 2-Fluorobiphenyl 56.7 mg/Kg 0.333 56.7 33-115

LRB (LRB-L707994)

Prepared: 10/02/2023 Analyzed: 10/03/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	56.7		"	0.333		56.7	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Boulder #14-14G

Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - 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.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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