



October 03, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Derr 21-04

Project Number - [none]

Attached are your analytical results for Noble - Derr 21-04 received by Origins Laboratory, Inc. September 06, 2023. This project is associated with Origins project number Y309097-01.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y309097-01	Soil	September 6, 2023 13:30	09/06/2023 17:37
WH-SS-01@5'	Y309097-02	Soil	September 6, 2023 13:32	09/06/2023 17:37
WH-SS-02@5'	Y309097-03	Soil	September 6, 2023 13:34	09/06/2023 17:37
WH-SS-03@5'	Y309097-04	Soil	September 6, 2023 13:36	09/06/2023 17:37
WH-SS-04@5'	Y309097-05	Soil	September 6, 2023 13:38	09/06/2023 17:37

pH reruns requested for WH-SS-01@5', WH-SS-02@5', and WH-SS-04@5' per Grace's email on 09/28/2023. No errors were found in the original data, all three results are reported. JAB

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

ORIGINS
LABORATORY, INC

309097

page 1 of 1

Client: Eagle Environmental Consulting
 Project Manager: Martin Eckert III
 Address: 8000 W 44th Ave, Wheat Ridge, CO 80033
 Project Name: DERR 21-04
 Project Number: [blank]
 Telephone Number: 303-933-0474
 Samples Collected By: BU
 Email Address: mce@eagle-env.com

Sample ID Description	Date Sampled	Time Sampled	# Of Containers	Preservative			Matrix		Other	Analysis	Sample Instructions	Turnaround Time
				Unpreserved	HCl	HNO ₃	Groundwater	Soil				
WT-55-0186	9/16/23	1330	3	X			X		X	*EL SAR pH	24 Hr	
WT-55-0205		1332							X	Completed by [blank]	48 Hr	
WT-55-0205		1334							X	Substantiated positive [blank]	Standard	
WT-55-0305		1336							X	*ADL Needed		
WT-55-0405		1339							X			

Relinquished By: Blake Ulrich
 Relinquished Date: 09/16/23
 Received By: [Signature]
 Received Date: 9/16/23
 Temp Received: [Signature]
 Date Results Needed: Noble

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

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

Sample Receipt Checklist

Origins Work Order: Y309097 Client: Eagle
Client Project ID: Derr 21-04

Checklist Completed by: JBY/ENS Shipped Via: HLR
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 9/17/23 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 1004

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"/>		<u>SD</u>
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) ⁽²⁾ (preservation is not confirmed for sub-sampled analytes in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ ; HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/18/23

Origins Laboratory, Inc.

[Signature]

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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 - Derr 21-04

WH-FS-01@6'
9/6/2023 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.425	0.0997	mg/L	1	B311110	KAP	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310703	ZZZ	09/07/2023	09/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	105 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310804	HKS	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	104 %		70-130	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130	"	"	"	"	"	

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 Project Number: [none]
 Project: Noble - Derr 21-04

WH-FS-01@6'
9/6/2023 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.97	0.499	meq/L	10	[CALC]	KAP	09/09/2023	09/11/2023	
Magnesium	0.963	0.823	"	"	"	KAP	"	"	
Sodium	0.943	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0745	Windo	09/07/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

WH-FS-01@6'
9/6/2023 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %		60-130		B3I074		09/07/2023	09/12/2023	
Surrogate: Anthracene-d10	94.7 %		60-130		"		"	"	
Surrogate: Pyrene-d10	129 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.05		pH Units	1	B3I1924	HJD	09/19/2023	09/19/2023	
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SAR by 20B Saturated Paste

SAR	0.779	0.0100	SAR	1	B3I0903	KAP	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.486	0.00500	mmhos/cm	1	B3I0906	ACN	09/09/2023	09/10/2023	
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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 - Derr 21-04

WH-SS-01@5'
9/6/2023 1:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.338	0.0998	mg/L	1	B311110	KAP	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310703	ZZZ	09/07/2023	09/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	106 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310804	HKS	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	106 %		70-130	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %		70-130	"	"	"	"	"	

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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 - Derr 21-04

WH-SS-01@5'
9/6/2023 1:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.69	0.499	meq/L	10	[CALC]	KAP	09/09/2023	09/11/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	1.57	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310745	Windo	09/07/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

WH-SS-01@5'
9/6/2023 1:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	97.8 %		60-130		B3I074		09/07/2023	09/12/2023	
Surrogate: Anthracene-d10	95.4 %		60-130		"		"	"	
Surrogate: Pyrene-d10	86.3 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.84		pH Units	1	B3I1924	HJD	09/19/2023	09/19/2023	
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SAR by 20B Saturated Paste

SAR	1.19	0.0100	SAR	1	B3I0903	KAP	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.705	0.00500	mmhos/cm	1	B3I0906	ACN	09/09/2023	09/10/2023	
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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 - Derr 21-04

WH-SS-01@5'
9/6/2023 1:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-02RE1 (Soil)

pH in Soil by 9045D

pH	8.30		pH Units	1	B312918	ACN	09/19/2023	09/30/2023	
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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 - Derr 21-04

WH-SS-01@5'
9/6/2023 1:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-02RE2 (Soil)

pH in Soil by 9045D

pH	8.60		pH Units	1	B312918	ACN	09/19/2023	09/30/2023	
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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 - Derr 21-04

WH-SS-02@5'
9/6/2023 1:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B311110	KAP	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310703	ZZZ	09/07/2023	09/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 110 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310804	HKS	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 106 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

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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 - Derr 21-04

WH-SS-02@5'
9/6/2023 1:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.22	0.499	meq/L	10	[CALC]	KAP	09/09/2023	09/11/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	0.954	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310745	Windo	09/07/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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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 - Derr 21-04

WH-SS-02@5'

9/6/2023 1:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %		60-130		B3I074		09/07/2023	09/12/2023	
Surrogate: Anthracene-d10	96.6 %		60-130		"		"	"	
Surrogate: Pyrene-d10	94.0 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.43		pH Units	1	B3I1924	HJD	09/19/2023	09/19/2023	
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SAR by 20B Saturated Paste

SAR	1.06	0.0100	SAR	1	B3I0903	KAP	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.319	0.00500	mmhos/cm	1	B3I0906	ACN	09/09/2023	09/10/2023	
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Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-02@5'
9/6/2023 1:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-03RE1 (Soil)

pH in Soil by 9045D

pH	8.39		pH Units	1	B312918	ACN	09/19/2023	09/30/2023	
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Origins Laboratory, Inc.
Bynon

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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 - Derr 21-04

WH-SS-02@5'

9/6/2023 1:34:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-03RE2 (Soil)

pH in Soil by 9045D

pH	8.32		pH Units	1	B312918	ACN	09/19/2023	09/30/2023	
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Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-03@5'
9/6/2023 1:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.188	0.0987	mg/L	1	B311111	KAP	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310703	ZZZ	09/07/2023	09/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	97.1 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310804	HKS	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	105 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %		70-130		"	"	"	"	

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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 - Derr 21-04

WH-SS-03@5'
9/6/2023 1:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.59	0.499	meq/L	10	[CALC]	KAP	09/09/2023	09/11/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	0.848	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310745	Windo	09/07/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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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 - Derr 21-04

WH-SS-03@5'
9/6/2023 1:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-04 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %		60-130		B3I074		09/07/2023	09/12/2023	
Surrogate: Anthracene-d10	97.0 %		60-130		"		"	"	
Surrogate: Pyrene-d10	114 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.4 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.22		pH Units	1	B3I1924	HJD	09/19/2023	09/19/2023	
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SAR by 20B Saturated Paste

SAR	0.792	0.0100	SAR	1	B3I0903	KAP	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.385	0.00500	mmhos/cm	1	B3I0906	ACN	09/09/2023	09/10/2023	
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Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-04@5'
9/6/2023 1:38:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.104	0.0982	mg/L	1	B311111	KAP	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310703	ZZZ	09/07/2023	09/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	107 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310804	HKS	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	96.7 %		70-130	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130	"	"	"	"	"	

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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 - Derr 21-04

WH-SS-04@5'
9/6/2023 1:38:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]	KAP	09/09/2023	09/11/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	0.775	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310745	Windo	09/07/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-04@5'
9/6/2023 1:38:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-05 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %		60-130		B3I074		09/07/2023	09/12/2023	
					5				
Surrogate: Anthracene-d10	96.1 %		60-130		"		"	"	
Surrogate: Pyrene-d10	115 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.34		pH Units	1	B3I1924	HJD	09/19/2023	09/19/2023	
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SAR by 20B Saturated Paste

SAR	0.842	0.0100	SAR	1	B3I0903	KAP	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.275	0.00500	mmhos/cm	1	B3I0906	ACN	09/09/2023	09/10/2023	
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Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-04@5'

9/6/2023 1:38:00PM

Reporting

Analyte

Result

Limit

Units

Dilution

Batch

Analyst Prepared

Analyzed

Notes

Origins Laboratory, Inc.
Y309097-05RE1 (Soil)

pH in Soil by 9045D

pH 8.30 pH Units 1 B312918 ACN 09/19/2023 09/30/2023

Origins Laboratory, Inc.

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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 - Derr 21-04

WH-SS-04@5'

9/6/2023 1:38:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309097-05RE2 (Soil)

pH in Soil by 9045D

pH	8.36		pH Units	1	B312918	ACN	09/19/2023	09/30/2023	
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Origins Laboratory, Inc.

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

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 B3I0703 - EPA 3550B

Prepared: 09/07/2023 Analyzed: 09/10/2023

Blank (B3I0703-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

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 B310703 - EPA 3550B

LCS (B310703-BS1)

Prepared: 09/07/2023 Analyzed: 09/10/2023

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000		97.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

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 B310703 - EPA 3550B

Matrix Spike (B310703-MS1)

Source: Y309095-01

Prepared: 09/07/2023 Analyzed: 09/10/2023

Diesel (C10-C28)	1150	50.0	mg/kg	1000	140	101	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000	121	105	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

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 B310703 - EPA 3550B

Matrix Spike Dup (B310703-MSD1)

Source: Y309095-01

Prepared: 09/07/2023 Analyzed: 09/10/2023

Diesel (C10-C28)	1200	50.0	mg/kg	1000	140	106	70-130	3.75	35	
Residual Range Organics (C28-C40)	1220	200	"	1000	121	110	70-130	4.10	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

Origins Laboratory, Inc.

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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 - Derr 21-04

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 B3I0804 - EPA 5030 (soil)

Blank (B3I0804-BLK1)

Prepared: 09/08/2023 Analyzed: 09/08/2023

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		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

Origins Laboratory, Inc.

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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 - Derr 21-04

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 B3I0804 - EPA 5030 (soil)

LCS (B3I0804-BS1)

Prepared: 09/08/2023 Analyzed: 09/08/2023

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	106	70-130				
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100	99.3	70-130				
Benzene	0.0950	0.00200	"	0.100	95.0	70-130				
Ethylbenzene	0.0932	0.00200	"	0.100	93.2	70-130				
Naphthalene	0.0893	0.00380	"	0.100	89.3	70-130				
Toluene	0.103	0.00200	"	0.100	103	70-130				
o-Xylene	0.0950	0.00200	"	0.100	95.0	70-130				
m,p-Xylene	0.194	0.00400	"	0.200	97.1	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.3	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	105	70-130				
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	83.5	70-130				

Origins Laboratory, Inc.

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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 - Derr 21-04

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 B310804 - EPA 5030 (soil)

Matrix Spike (B310804-MS1)

Source: Y309070-01

Prepared: 09/08/2023 Analyzed: 09/08/2023

1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.0705	0.00200	"	0.100	ND	70.5	70-130			
Benzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Ethylbenzene	0.0740	0.00200	"	0.100	ND	74.0	70-130			
Naphthalene	0.0772	0.00380	"	0.100	ND	77.2	70-130			
Toluene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

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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 - Derr 21-04

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 B310804 - EPA 5030 (soil)

Matrix Spike Dup (B310804-MSD1)

Source: Y309070-01

Prepared: 09/08/2023 Analyzed: 09/08/2023

1,2,4-Trimethylbenzene	0.0808	0.00200	mg/kg	0.100	ND	80.8	70-130	4.53	20	
1,3,5-Trimethylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	4.22	20	
Benzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	6.62	20	
Ethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130	7.01	20	
Naphthalene	0.0872	0.00380	"	0.100	ND	87.2	70-130	12.2	20	
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130	5.89	20	
o-Xylene	0.0826	0.00200	"	0.100	ND	82.6	70-130	8.14	20	
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.6	70-130	7.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

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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 - Derr 21-04

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 B310745 - EPA 3580

Blank (B310745-BLK1)

Prepared: 09/07/2023 Analyzed: 09/12/2023

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	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	240		"	200		120	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Eagle Environmental Consulting, LLC
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

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 B310745 - EPA 3580

LCS (B310745-BS1)

Prepared: 09/07/2023 Analyzed: 09/12/2023

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200		97.4	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200		96.2	70-130			
Acenaphthene	0.188	0.020	"	0.200		93.8	70-130			
Anthracene	0.178	0.020	"	0.200		89.1	70-130			
Benzo (a) anthracene	0.172	0.005	"	0.200		86.1	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200		98.2	70-130			
Benzo (g,h,i) perylene	0.215	0.020	"	0.200		107	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.5	70-130			
Chrysene	0.181	0.020	"	0.200		90.3	70-130			
Dibenz (a,h) anthracene	0.169	0.020	"	0.200		84.4	70-130			
Fluoranthene	0.163	0.020	"	0.200		81.7	70-130			
Fluorene	0.189	0.020	"	0.200		94.4	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200		110	70-130			
Naphthalene	0.194	0.002	"	0.200		97.0	70-130			
Phenanthrene	0.182	0.020	"	0.200		91.2	70-130			
Pyrene	0.231	0.020	"	0.200		115	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	240		"	200		120	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B310745-MS1)

Source: Y309067-01

Prepared: 09/07/2023 Analyzed: 09/12/2023

1-Methylnaphthalene	0.205	0.010	mg/kg	0.200	0.012	96.8	70-130			
2-Methylnaphthalene	0.203	0.010	"	0.200	0.011	95.7	70-130			
Acenaphthene	0.234	0.100	"	0.200	0.031	101	70-130			
Anthracene	0.435	0.100	"	0.200	0.107	164	70-130			QM-02

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Jordan A. Bynon For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

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 B310745 - EPA 3580

Matrix Spike (B310745-MS1)

Source: Y309067-01

Prepared: 09/07/2023 Analyzed: 09/12/2023

Benzo (a) anthracene	1.54	0.025	mg/kg	0.200	0.658	443	70-130			QM-02
Benzo (a) pyrene	1.30	0.100	"	0.200	0.659	321	70-130			QM-02
Benzo (b) fluoranthene	1.42	0.100	"	0.200	0.626	398	70-130			QM-02
Benzo (g,h,i) perylene	1.41	0.100	"	0.200	0.622	393	70-130			QM-02
Benzo (k) fluoranthene	0.687	0.100	"	0.200	0.278	205	70-130			QM-02
Chrysene	1.33	0.100	"	0.200	0.637	348	70-130			QM-02
Dibenz (a,h) anthracene	0.465	0.100	"	0.200	0.133	166	70-130			QM-02
Fluoranthene	2.45	0.100	"	0.200	1.02	714	70-130			QM-02
Fluorene	0.234	0.100	"	0.200	0.032	101	70-130			QM-02
Indeno (1,2,3-cd) pyrene	1.25	0.100	"	0.200	0.561	345	70-130			QM-02
Naphthalene	0.236	0.010	"	0.200	0.021	108	70-130			QM-02
Phenanthrene	0.920	0.100	"	0.200	0.441	239	70-130			QM-02
Pyrene	1.84	0.100	"	0.200	1.46	188	70-130			QM-02
Surrogate: Fluorene-d10	190		ug/kg	200		97.0	60-130			
Surrogate: Anthracene-d10	190		"	200		97.5	60-130			
Surrogate: Pyrene-d10	140		"	200		69.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B310745-MSD1)

Source: Y309067-01

Prepared: 09/07/2023 Analyzed: 09/12/2023

1-Methylnaphthalene	0.198	0.010	mg/kg	0.200	0.012	93.4	70-130	3.38	20	
2-Methylnaphthalene	0.194	0.010	"	0.200	0.011	91.5	70-130	4.28	20	
Acenaphthene	0.214	0.100	"	0.200	0.031	91.6	70-130	8.69	20	
Anthracene	0.377	0.100	"	0.200	0.107	135	70-130	14.2	20	QM-02
Benzo (a) anthracene	0.906	0.025	"	0.200	0.658	124	70-130	52.1	20	QR-DUP
Benzo (a) pyrene	0.948	0.100	"	0.200	0.659	144	70-130	31.4	20	QM-02, QR-DUP
Benzo (b) fluoranthene	0.830	0.100	"	0.200	0.626	102	70-130	52.5	20	QR-DUP

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 Project: Noble - Derr 21-04

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 B310745 - EPA 3580

Matrix Spike Dup (B310745-MSD1)

Source: Y309067-01

Prepared: 09/07/2023 Analyzed: 09/12/2023

Benzo (g,h,i) perylene	1.03	0.100	mg/kg	0.200	0.622	203	70-130	31.3	20	QM-02, QR-DUP
Benzo (k) fluoranthene	0.490	0.100	"	0.200	0.278	106	70-130	33.6	20	QR-DUP
Chrysene	0.896	0.100	"	0.200	0.637	130	70-130	39.1	20	QR-DUP
Dibenz (a,h) anthracene	0.377	0.100	"	0.200	0.133	122	70-130	20.9	20	QR-DUP
Fluoranthene	1.28	0.100	"	0.200	1.02	132	70-130	62.4	20	QM-02, QR-DUP
Fluorene	0.214	0.100	"	0.200	0.032	91.0	70-130	9.10	20	
Indeno (1,2,3-cd) pyrene	0.892	0.100	"	0.200	0.561	165	70-130	33.5	20	QM-02, QR-DUP
Naphthalene	0.222	0.010	"	0.200	0.021	101	70-130	6.43	20	
Phenanthrene	0.563	0.100	"	0.200	0.441	60.9	70-130	48.2	20	QM-02, QR-DUP
Pyrene	1.15	0.100	"	0.200	1.46	NR	70-130	45.8	20	QM-02, QR-DUP
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	160		"	200		82.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Derr 21-04

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 B3I0903 - Saturated Paste Metals

Blank (B3I0903-BLK1)

Prepared: 09/09/2023 Analyzed: 09/11/2023

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

Duplicate (B3I0903-DUP1)

Source: Y309095-01

Prepared: 09/09/2023 Analyzed: 09/11/2023

SAR	ND	0.0100	SAR	1.83				200		
Calcium PPM	86.0	10.0	mg/L	84.3				2.00	50	
Magnesium PPM	23.6	10.0	"	23.4				1.11	50	
Sodium PPM	77.4	10.0	"	73.8				4.76	50	

Batch B3I1110 - DTPA Sorbitol Preparation

Blank (B3I1110-BLK1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I1110-DUP1)

Source: Y309070-01

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	0.235	0.0993	mg/L	0.238				1.23	50	
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Batch B3I1111 - DTPA Sorbitol Preparation

Blank (B3I1111-BLK1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I1111-DUP1)

Source: Y309097-04

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	0.177	0.0997	mg/L	0.188				6.40	50	
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 Project Number: [none]
 Project: Noble - Derr 21-04

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 B310906 - Saturated Paste pH/EC

Prepared: 09/09/2023 Analyzed: 09/10/2023

Blank (B310906-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B310906-DUP1)

Source: Y309095-01

Prepared: 09/09/2023 Analyzed: 09/10/2023

Specific Conductance (EC) 1.08 0.00500 mmhos/cm

1.11 3.19 25

Batch B311924 - Saturated Paste pH/EC

Duplicate (B311924-DUP1)

Source: Y309097-01

Prepared: 09/19/2023 Analyzed: 09/19/2023

pH 7.92 pH Units

8.05 1.63 25

Batch B312918 - Saturated Paste pH/EC

Duplicate (B312918-DUP1)

Source: Y309679-02

Prepared: 09/29/2023 Analyzed: 09/30/2023

pH 8.20 pH Units

8.29 1.09 25

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Derr 21-04

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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