



September 01, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04 Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. August 31, 2021. This project is associated with Origins project number Y108634-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-06@6.5'	Y108634-01	Soil	August 31, 2021 9:40	08/31/2021 15:07
SS-24@5'	Y108634-02	Soil	August 31, 2021 9:38	08/31/2021 15:07
SS-25@5'	Y108634-03	Soil	August 31, 2021 9:36	08/31/2021 15:07
SS-26@5'	Y108634-04	Soil	August 31, 2021 9:34	08/31/2021 15:07
SS-27@5'	Y108634-05	Soil	August 31, 2021 9:32	08/31/2021 15:07
SS-32@0.25'	Y108634-06	Soil	August 31, 2021 11:25	08/31/2021 15:07
SS-33@0.25'	Y108634-07	Soil	August 31, 2021 11:30	08/31/2021 15:07
SS-34@0.25'	Y108634-08	Soil	August 31, 2021 11:35	08/31/2021 15:07
SS-35@0.25'	Y108634-09	Soil	August 31, 2021 11:45	08/31/2021 15:07

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Sample Receipt Checklist

Origins Work Order: 4108634 Client: Eagle Env
Client Project ID: Noble Wells Ranch

Checklist Completed by: JE Shipped Via: UPS
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 8/31/21 Airbill #: NA

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1 / 4.0 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: TC05

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

Reviewed by (Project Manager) MD

Date/Time Reviewed 8/31/21

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 69.7% 50-150 " " " " " " " "

GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101% 70-130 " " " " " " " "
 Surrogate: Toluene-d8 98.9% 70-130 " " " " " " " "
 Surrogate: 4-Bromofluorobenzene 101% 70-130 " " " " " " " "

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-24@5'

8/31/2021 9:38:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.3% 50-150 " " " " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115% 70-130 " " " " " "
 Surrogate: Toluene-d8 96.5% 70-130 " " " " " "
 Surrogate: 4-Bromofluorobenzene 100% 70-130 " " " " " "

Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.5% 50-150 " " " " " " " " " " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.1% 70-130 " " " " " " " " " " " "

Surrogate: Toluene-d8 102% 70-130 " " " " " " " " " " " "

Surrogate: 4-Bromofluorobenzene 102% 70-130 " " " " " " " " " " " "

Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-26@5'
8/31/2021 9:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 70.2% 50-150 " " " " " "

GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114%	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	97.5%	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9%	70-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-27@5'

8/31/2021 9:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 71.3% 50-150 " " " " " " " " " " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.8% 70-130 " " " " " " " " " " " "

Surrogate: Toluene-d8 101% 70-130 " " " " " " " " " " " "

Surrogate: 4-Bromofluorobenzene 101% 70-130 " " " " " " " " " " " "

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-32@0.25'

8/31/2021 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	158	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 80.3% 50-150 " " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00982	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	09/01/2021	
1,3,5-Trimethylbenzene	0.00462	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	0.747	0.200	"	"	"	KDK	"	"	
Xylenes, total	0.00244	0.00200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 116% 70-130 " " " "
 Surrogate: Toluene-d8 96.4% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 99.5% 70-130 " " " "

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-33@0.25'

8/31/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
Surrogate: o-Terphenyl	73.3 %		50-150		"	"	"	"	

GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	121 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	96.2 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130		"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-34@0.25'

8/31/2021 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	73.3 %		50-150		"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	96.0 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130		"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #21-04

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	69.1 %		50-150		"	"	"	"	
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GBTEX+TMBS

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3123	KDK	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	98.1 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3114 - EPA 5030 (soil)

Blank (B1H3114-BLK1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3114 - EPA 5030 (soil)

LCS (B1H3114-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0468	0.0100	"	0.0500		93.5	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500		91.0	70-130			
Benzene	0.0413	0.00200	"	0.0500		82.6	70-130			
Ethylbenzene	0.0461	0.00200	"	0.0500		92.2	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #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 B1H3114 - EPA 5030 (soil)

Matrix Spike (B1H3114-MS1)

Source: Y108621-14

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500		92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500		87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500		90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500		87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500		91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500		94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3114 - EPA 5030 (soil)

Matrix Spike Dup (B1H3114-MSD1)

Source: Y108621-14

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500		96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500		93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500		92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500		89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500		95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100		100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500		97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500		101	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3122 - EPA 3550B

Blank (B1H3122-BLK1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.8	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3122 - EPA 3550B

LCS (B1H3122-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.8	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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
Batch B1H3122 - EPA 3550B										
Matrix Spike (B1H3122-MS1)										
			Source: Y108633-01			Prepared: 08/31/2021 Analyzed: 08/31/2021				
Diesel (C10-C28)	934	50.0	mg/kg	1000	50.0	88.4	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000	27.1	94.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.6	50-150			

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 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3122 - EPA 3550B

Matrix Spike Dup (B1H3122-MSD1)

Source: Y108633-01

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	942	50.0	mg/kg	1000	50.0	89.2	70-130	0.866	35	
Residual Range Organics (C28-C40)	975	200	"	1000	27.1	94.8	70-130	0.452	35	
Surrogate: o-Terphenyl	45		"	50.0		89.5	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3123 - EPA 5030 (soil)

Matrix Spike (B1H3123-MS1)

Source: Y108635-01

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	0.0500	ND	109	70-130			
Naphthalene	0.0584	0.0100	"	0.0500	ND	117	70-130			
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500	ND	106	70-130			
Benzene	0.0477	0.00200	"	0.0500	ND	95.5	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130			
m,p-Xylene	0.105	0.00400	"	0.100	ND	105	70-130			
o-Xylene	0.0525	0.00200	"	0.0500	ND	105	70-130			
Toluene	0.0492	0.00200	"	0.0500	ND	98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AA #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 B1H3123 - EPA 5030 (soil)

Matrix Spike Dup (B1H3123-MSD1)

Source: Y108635-01

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.0500	ND	103	70-130	5.98	20	
Naphthalene	0.0550	0.0100	"	0.0500	ND	110	70-130	5.93	20	
1,3,5-Trimethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130	5.29	20	
Benzene	0.0469	0.00200	"	0.0500	ND	93.9	70-130	1.69	20	
Ethylbenzene	0.0486	0.00200	"	0.0500	ND	97.2	70-130	3.00	20	
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130	1.92	20	
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130	4.24	20	
Toluene	0.0481	0.00200	"	0.0500	ND	96.2	70-130	2.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Notes and Definitions

- U Sample is Non-Detect.
 - 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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