



September 02, 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. September 01, 2021. This project is associated with Origins project number Y109025-01.

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
SS-36@0.25'	Y109025-01	Soil	September 1, 2021 12:16	09/01/2021 14:02

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: 4000025

Client: Eagle Environmental

Client Project ID: Wells Ranch AA #21-04

Checklist Completed by: KA

Shipped Via: HD

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

Date/time completed: 9/1/21

Airbill #: NS

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 5.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analysis in order to insure sample integrity) (pH ≤ 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 9/1/21

Origins Laboratory, Inc.

[Signature]

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Jen Pellegrini For Noelle Doyle Mathis, President

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

**SS-36@0.25'**

**9/1/2021 12:16:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y109025-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B110112	KDK	09/01/2021	09/01/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	66.3 %		50-150		"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B110111	KDK	"	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	96.9 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	95.2 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		"	"	"	"	

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 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 B1I0111 - EPA 5030 (soil)

Blank (B1I0111-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

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	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B110111 - EPA 5030 (soil)

LCS (B110111-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0522	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0462	0.00200	"	0.0500		92.5	70-130			
Benzene	0.0489	0.00200	"	0.0500		97.7	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500		94.6	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B110111 - EPA 5030 (soil)

Matrix Spike (B110111-MS1)

Source: Y109002-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500	ND	96.2	70-130			
Naphthalene	0.0534	0.0100	"	0.0500	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0474	0.00200	"	0.0500	ND	94.9	70-130			
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.6	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B110111 - EPA 5030 (soil)

Matrix Spike Dup (B110111-MSD1)

Source: Y109002-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.8	70-130	6.84	20	
Naphthalene	0.0493	0.0100	"	0.0500	ND	98.6	70-130	8.06	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	ND	89.5	70-130	5.81	20	
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130	4.68	20	
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130	4.78	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	5.12	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130	5.00	20	
Toluene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B110112 - EPA 3550B

Blank (B110112-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.9	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B110112 - EPA 3550B**

**LCS (B110112-BS1)**

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.4	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B110112 - EPA 3550B</b>										
<b>Matrix Spike (B110112-MS1)</b>										
			<b>Source: Y109002-01</b>			<b>Prepared: 09/01/2021 Analyzed: 09/01/2021</b>				
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.9	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B110112 - EPA 3550B

Matrix Spike Dup (B110112-MSD1)

Source: Y109002-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	5.57	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	8.10	35	
Surrogate: o-Terphenyl	39		"	50.0		78.2	50-150			

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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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