



August 22, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Wells Ranch
#AA35-62-1AHNC**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch #AA35-62-1AHNC received by Origins Laboratory, Inc. August 06, 2024. This project is associated with Origins project number Y408168-01.

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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@7.5-10'	Y408168-01	Soil	August 6, 2024 10:49	08/06/2024 17:46
SB-01@15-17.5'	Y408168-02	Soil	August 6, 2024 11:05	08/06/2024 17:46
SB-02@7.5-10'	Y408168-03	Soil	August 6, 2024 12:33	08/06/2024 17:46
SB-02@10-12.5'	Y408168-04	Soil	August 6, 2024 12:40	08/06/2024 17:46
SB-03@7.5-10'	Y408168-05	Soil	August 6, 2024 12:12	08/06/2024 17:46
SB-03@10-12.5'	Y408168-06	Soil	August 6, 2024 12:19	08/06/2024 17:46
SB-04@7.5-10'	Y408168-07	Soil	August 6, 2024 11:40	08/06/2024 17:46
SB-04@10-12.5'	Y408168-08	Soil	August 6, 2024 11:44	08/06/2024 17:46
SB-05@7.5-10'	Y408168-09	Soil	August 6, 2024 11:59	08/06/2024 17:46
SB-05@10-12.5'	Y408168-10	Soil	August 6, 2024 12:00	08/06/2024 17:46

Origins Laboratory, Inc.



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

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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

ORIGINS
 LABORATORY, INC

ORIGINS WORK ORDER #

408103

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Grace Congdon

Key:

Address: 8000 W 44th Ave

Project Name: Wells Ranch #AA35-62-1AHNC

W=Water

Telephone Number: 303-433-6479

Project Number:

GW=Groundwater

Email Address: grace@eagle-env.com

Collected By: RS

SW=Surface Water

Invoice/Billing Info: Noble - Bill to Dan

WM=Waste Water

S=Soil | SC=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
							Asph, TMS - 82609	DETRC - 82609	Asphc - 82609	Biom - 82609	
1	58-01e 75-10'	8/6/14	1049	3	5	UNP	X	X	X	X	
2	58-01e 15-17.5'		1105								
3	58-02e 75-10'		1133								
4	58-02e 10-12.5'		1240								
5	58-03e 75-10'		1212								
6	58-03e 10-12.5'		1241								
7	58-04e 75-10'		1140								
8	58-04e 10-12.5'		1144								
9	58-05e 75-10'		1159								
10	58-05e 10-12.5'		1200								

Requisitioned By: [Signature] Date: 8/1/14 Time: 1746

Received By: [Signature] Date: 8/1/14 Time: 1440

Temp Received - 18 Received On Ice? Yes No

Turnaround Time: 48 Hr 72 Hr Standard

Origins Laboratory, Inc.

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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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

Sample Receipt Checklist

Origins Work Order: 440468 Client: Eagle
 Client Project ID: Wells Ranch

Checklist Completed by: JH/SHD Shipped Via: TVD
 Date/Time completed: 9/7/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: L12 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/	/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/		/	
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)	/		/	
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) JH

8/8/24
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-01@7.5-10'
8/6/2024 10:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 80.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	5.86	0.263	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	380	9.06	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-01@15-17.5'
8/6/2024 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 82.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	2.01	0.269	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	59.2	9.28	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-02@7.5-10'
8/6/2024 12:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 82.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	4.99	0.286	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	57.7	9.85	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-02@10-12.5'
8/6/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 82.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	3.09	0.279	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	50.2	9.64	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-03@7.5-10'
8/6/2024 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 81.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	2.92	0.277	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	24.6	9.54	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-03@10-12.5'
8/6/2024 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 84.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 99.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	3.62	0.259	mg/kg	10	B4H0734	HJD	08/07/2024	08/09/2024
Barium	20.3	8.93	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-04@7.5-10'
8/6/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 84.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	3.11	0.277	mg/kg	10	B4H0734	HJD	08/07/2024	08/09/2024
Barium	48.9	9.54	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-04@10-12.5'
8/6/2024 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	3.06	0.279	mg/kg	10	B4H0734	HJD	08/07/2024	08/09/2024
Barium	57.9	9.63	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-05@7.5-10'
8/6/2024 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	2.09	0.253	mg/kg	10	B4H0734	HJD	08/07/2024	08/09/2024
Barium	44.1	8.72	"	"	"	HJD	"	"

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

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

SB-05@10-12.5'
8/6/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408168-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0901	ZZZ	08/09/2024	08/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 98.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0739	ZZZ	08/07/2024	08/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 99.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

Table 915 metals by EPA 6020B

Arsenic	2.81	0.251	mg/kg	10	B4H0734	HJD	08/07/2024	08/09/2024
Barium	56.5	8.65	"	"	"	HJD	"	"

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 Wheat Ridge CO 80033

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0739 - EPA 5030 (soil)

Blank (B4H0739-BLK1)

Prepared: 08/07/2024 Analyzed: 08/08/2024

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	0.11		"	0.125	88.5		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	114		70-130			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0739 - EPA 5030 (soil)

LCS (B4H0739-BS1)

Prepared: 08/07/2024 Analyzed: 08/08/2024

1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100		92.7	70-130			
1,3,5-Trimethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130			
Benzene	0.0875	0.00200	"	0.100		87.5	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100		98.0	70-130			
Naphthalene	0.0949	0.00380	"	0.100		94.9	70-130			
Toluene	0.0899	0.00200	"	0.100		89.9	70-130			
o-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0739 - EPA 5030 (soil)

Matrix Spike (B4H0739-MS1)	Source: Y408159-01			Prepared: 08/07/2024 Analyzed: 08/08/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00230	99.6	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	0.00108	98.0	70-130			
Benzene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.0984	0.00380	"	0.100	0.00180	96.6	70-130			
Toluene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0739 - EPA 5030 (soil)

Matrix Spike Dup (B4H0739-MSD1)	Source: Y408159-01			Prepared: 08/07/2024 Analyzed: 08/08/2024						
1,2,4-Trimethylbenzene	0.0892	0.00200	mg/kg	0.100	0.00230	86.9	70-130	13.2	20	
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	0.00108	85.0	70-130	14.0	20	
Benzene	0.0872	0.00200	"	0.100	ND	87.2	70-130	9.72	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	13.2	20	
Naphthalene	0.0927	0.00380	"	0.100	0.00180	90.9	70-130	5.99	20	
Toluene	0.0872	0.00200	"	0.100	ND	87.2	70-130	11.5	20	
o-Xylene	0.0948	0.00200	"	0.100	ND	94.8	70-130	12.6	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.6	70-130	13.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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
Batch B4H0901 - EPA 3550B										
Blank (B4H0901-BLK1)										
					Prepared: 08/09/2024 Analyzed: 08/13/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.4	50-150			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0901 - EPA 3550B

LCS (B4H0901-BS1)

Prepared: 08/09/2024 Analyzed: 08/13/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0901 - EPA 3550B

Matrix Spike (B4H0901-MS1)	Source: Y408168-01			Prepared: 08/09/2024 Analyzed: 08/13/2024						
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.3	50-150			

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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4H0901 - EPA 3550B										
Matrix Spike Dup (B4H0901-MSD1)		Source: Y408168-01								
					Prepared: 08/09/2024		Analyzed: 08/13/2024			
Diesel (C10-C28)	953	50.0	mg/kg	1000	ND	95.3	70-130	1.16	35	
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130	0.389	35	
Surrogate: o-Terphenyl	48		"	49.8		96.8	50-150			

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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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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 B4H0729 - EPA 3050B

Blank (B4H0729-BLK1)

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							

LCS (B4H0729-BS1)

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	4.89	0.290	mg/kg	5.00		97.8	80-120			
Barium	517	10.0	"	500		103	80-120			

Matrix Spike (B4H0729-MS1)

Source: Y408168-01

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	11.1	0.272	mg/kg	4.70	5.86	112	75-125			
Barium	632	9.39	"	470	380	53.7	75-125			QM-07

Matrix Spike Dup (B4H0729-MSD1)

Source: Y408168-01

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	13.5	0.272	mg/kg	4.69	5.86	163	75-125	19.3	20	QM-07
Barium	603	9.39	"	469	380	47.6	75-125	4.73	20	QM-07

Batch B4H0734 - EPA 3050B

Blank (B4H0734-BLK1)

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							

LCS (B4H0734-BS1)

Prepared: 08/07/2024 Analyzed: 08/09/2024

Arsenic	4.84	0.290	mg/kg	5.00		96.8	80-120			
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Grace Congdon
 Project Number: [none]
 Project: Noble - Wells Ranch #AA35-62-1AHNC

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
Batch B4H0734 - EPA 3050B										
LCS (B4H0734-BS1)					Prepared: 08/07/2024 Analyzed: 08/09/2024					
Barium	523	10.0	mg/kg	500		105	80-120			
Matrix Spike (B4H0734-MS1)		Source: Y408168-06			Prepared: 08/07/2024 Analyzed: 08/09/2024					
Arsenic	8.18	0.279	mg/kg	4.81	3.62	95.0	75-125			
Barium	530	9.61	"	481	20.3	106	75-125			
Matrix Spike Dup (B4H0734-MSD1)		Source: Y408168-06			Prepared: 08/07/2024 Analyzed: 08/09/2024					
Arsenic	7.65	0.250	mg/kg	4.31	3.62	93.4	75-125	6.79	20	
Barium	467	8.62	"	431	20.3	104	75-125	12.6	20	

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8000 W 44th Ave
Wheat Ridge CO 80033

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager