



September 07, 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.

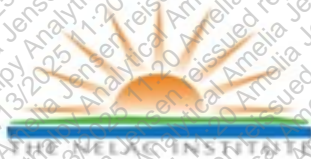
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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



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
Date/time completed: 8/31/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1 / 4.0 °C / _____ °C / _____ °C (Describe)
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) ME Date/Time Reviewed 8/31/21

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

FS-06@6.5'

8/31/2021 9:40:00AM

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

Boron (DTPA Sorbitol)

Boron	0.256		0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

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

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

GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4 101% 70-130 " " "

Origins Laboratory, Inc.



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 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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.9 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	8.37		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	4.23		0.823	"	"	"	"	"	
Sodium	6.00		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.000721	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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 Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.6 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	65.3 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	59.2 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.10			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	2.39			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.70		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.76	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
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 Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

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

Y108634-01 (Soil)

Total Metals by 6020B

Barium	74	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.102	0.0259	0.25	"	"	"	"	"	J
Copper	4.1	0.0806	0.25	"	"	"	"	"	
Lead	5.54	0.031	0.25	"	"	"	"	"	
Nickel	4.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.168	0.103	0.25	"	"	"	"	"	J
Silver	0.0226	0.0067	0.25	"	"	"	"	"	J
Zinc	22	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.201		0.201	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl	72.3%		50-150	"	"	"	"	"	"
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GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4	115%		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

SS-24@5'

8/31/2021 9:38:00AM

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

GBTEX+TMBs

Surrogate: Toluene-d8	96.5 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	4.96		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	3.03		0.823	"	"	"	"	"	
Sodium	3.14		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000616	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	J
2-Methylnaphthalene	0.00187	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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 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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	"
Naphthalene	0.000837	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.4 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	61.3 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.24			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste


SAR	1.57			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.73	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
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Eagle Environmental Consulting, Inc.
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 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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y108634-02 (Soil)

Total Metals by 6020B

Barium	83.3	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.0773	0.0259	0.25	"	"	"	"	"	J
Copper	3.49	0.0806	0.25	"	"	"	"	"	
Lead	4.77	0.031	0.25	"	"	"	"	"	
Nickel	3.27	0.0633	0.25	"	"	"	"	"	
Selenium	0.147	0.103	0.25	"	"	"	"	"	J
Silver	0.014	0.0067	0.25	"	"	"	"	"	J
Zinc	16.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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-25@5'

8/31/2021 9:36:00AM

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

Boron (DTPA Sorbitol)

Boron	0.256		0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl	90.5%		50-150	"	"	"	"	"	"
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GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4	91.1%		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

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y108634-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	102 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	13.1		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	8.01		0.823	"	"	"	"	"	
Sodium	27.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.2 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.08			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	8.40			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.02		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.88	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
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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-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y108634-03 (Soil)

Total Metals by 6020B

Barium	95.1	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.101	0.0259	0.25	"	"	"	"	"	J
Copper	4.58	0.0806	0.25	"	"	"	"	"	
Lead	6.02	0.031	0.25	"	"	"	"	"	
Nickel	4.63	0.0633	0.25	"	"	"	"	"	
Selenium	0.159	0.103	0.25	"	"	"	"	"	J
Silver	0.019	0.0067	0.25	"	"	"	"	"	J
Zinc	22.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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-26@5'

8/31/2021 9:34:00AM

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

Boron (DTPA Sorbitol)

Boron	ND		0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl	70.2 %		50-150	"	"	"	"	"	
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GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130	"	"	"	"	"	
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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-26@5'

8/31/2021 9:34:00AM

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

GBTEX+TMBs

Surrogate: Toluene-d8	97.5 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	6.41		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	3.53		0.823	"	"	"	"	"	
Sodium	1.44		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7%		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	63.3%		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	63.3%		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.12			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	0.646			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	2.05	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
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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-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y108634-04 (Soil)

Total Metals by 6020B

Barium	42.6	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.109	0.0259	0.25	"	"	"	"	"	J
Copper	3.65	0.0806	0.25	"	"	"	"	"	
Lead	4.31	0.031	0.25	"	"	"	"	"	
Nickel	3.59	0.0633	0.25	"	"	"	"	"	
Selenium	0.198	0.103	0.25	"	"	"	"	"	J
Silver	0.0158	0.0067	0.25	"	"	"	"	"	J
Zinc	18	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.201	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl	71.3 %		50-150	"	"	"	"	"	
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GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130	"	"	"	"	"	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	101 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	6.81		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	3.60		0.823	"	"	"	"	"	
Sodium	2.41		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.1 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	60 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	53.6 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.15			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	1.06			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.16		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.78	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y108634-05 (Soil)

Total Metals by 6020B

Barium	39.2	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.0735	0.0259	0.25	"	"	"	"	"	J
Copper	3.64	0.0806	0.25	"	"	"	"	"	
Lead	4.58	0.031	0.25	"	"	"	"	"	
Nickel	3.83	0.0633	0.25	"	"	"	"	"	
Selenium	0.189	0.103	0.25	"	"	"	"	"	J
Silver	0.0143	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.433	0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl	80.3%	50-150	"	"	"	"	"	"
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GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4	116%	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	96.4%	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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-06 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			B1H31 14	08/31/2021	09/01/2021	
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Metals by Saturated Paste

Calcium	7.81		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	4.39		0.823	"	"	"	"	"	
Sodium	4.48		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.122	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.133	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.012	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.00198	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00365	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000915	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000519	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00981	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000446	0.000279	0.00067	"	"	"	"	"	J
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0384	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000351	0.000344	0.00067	"	"	"	"	"	J

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-06 (Soil)

PAH by 8270D SIM

Naphthalene	0.0165	0.000467	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Pyrene	0.00398	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.1 %		33-115	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	49.5 %		33-122	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	52.6 %		29-110	"	"	"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	1.81			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.49	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	92.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.0825	0.0259	0.25	"	"	"	"	"	J

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-06 (Soil)

Total Metals by 6020B

Copper	3.79	0.0806	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Lead	4.04	0.031	0.25	"	"	"	"	"	
Nickel	3.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.155	0.103	0.25	"	"	"	"	"	J
Silver	0.0116	0.0067	0.25	"	"	"	"	"	J
Zinc	17.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.678		0.199	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


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

Surrogate: o-Terphenyl 73.3% 50-150 " " "

GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4 121% 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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-07 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.2 %		70-130			B1H31 14	08/31/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	"

Metals by Saturated Paste

Calcium	3.91		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	1.92		0.823	"	"	"	"	"	
Sodium	2.50		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0276	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.0411	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00284	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000484	0.000441	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000588	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000347	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0031	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00882	0.000501	0.00067	"	"	"	"	"	

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108634-07 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Naphthalene	0.00282	0.000467	0.00067	"	"	"	"	"	"
Pyrene	0.00108	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.1 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	63.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	63.6 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.76			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	1.46			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.837		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	173	0.042	0.25	"	"	"	"	"	"

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108634-07 (Soil)

Total Metals by 6020B

Cadmium	0.119	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	6.59	0.0806	0.25	"	"	"	"	"	"
Lead	5.87	0.031	0.25	"	"	"	"	"	"
Nickel	4.04	0.0633	0.25	"	"	"	"	"	"
Selenium	0.246	0.103	0.25	"	"	"	"	"	J
Silver	0.0219	0.0067	0.25	"	"	"	"	"	J
Zinc	31.1	0.534	2.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.456		0.198	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl 73.3% 50-150 " " "

GBTEX+TMBS

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

Surrogate: 1,2-Dichloroethane-d4 120% 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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-08 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.0 %		70-130			B1H31 14	08/31/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	"

Metals by Saturated Paste

Calcium	20.1		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	6.19		0.823	"	"	"	"	"	
Sodium	7.80		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000912	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.00148	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000497	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000852	0.000501	0.00067	"	"	"	"	"	

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108634-08 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.6 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	70.4 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	61.3 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.82			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	2.15			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.05		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	3.59	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	48.8	0.042	0.25	"	"	"	"	"	"

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108634-08 (Soil)

Total Metals by 6020B

Cadmium	0.137	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	7.6	0.0806	0.25	"	"	"	"	"	"
Lead	11.2	0.031	0.25	"	"	"	"	"	"
Nickel	6.7	0.0633	0.25	"	"	"	"	"	"
Selenium	0.242	0.103	0.25	"	"	"	"	"	J
Silver	0.0272	0.0067	0.25	"	"	"	"	"	J
Zinc	35.3	0.534	2.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.690		0.203	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	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	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130	"	"	"	"	"	"
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.1 %		70-130			B1H31 23	08/31/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	11.7		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	6.49		0.823	"	"	"	"	"	
Sodium	2.98		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00556	0.0024	0.00335	mg/Kg	5	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.00901	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00114	0.000665	0.00335	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	ND	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	
Fluorene	ND	0.00251	0.00335	"	"	"	"	"	

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108634-09 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L572147	09/01/2021	09/02/2021	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	73.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	72.3 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.40			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	0.987			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.15		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.62	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	175	0.042	0.25	"	"	"	"	"	"

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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

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-09 (Soil)

Total Metals by 6020B

Cadmium	0.078	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	4.29	0.0806	0.25	"	"	"	"	"	"
Lead	6.79	0.031	0.25	"	"	"	"	"	"
Nickel	2.99	0.0633	0.25	"	"	"	"	"	"
Selenium	0.227	0.103	0.25	"	"	"	"	"	J
Silver	0.0139	0.0067	0.25	"	"	"	"	"	J
Zinc	23.6	0.534	2.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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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 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			

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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 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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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	ND	92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100	ND	96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	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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Eagle Environmental Consulting, Inc.
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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 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	ND	96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500	ND	93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500	ND	89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500	ND	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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 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
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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)

Blank (B1H3123-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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	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)

LCS (B1H3123-BS1)

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

1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0523	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0519	0.00200	"	0.0500		104	70-130			
Benzene	0.0458	0.00200	"	0.0500		91.6	70-130			
Ethylbenzene	0.0515	0.00200	"	0.0500		103	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0533	0.00200	"	0.0500		107	70-130			
Toluene	0.0544	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	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 (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

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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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 B110102 - NO PREP

Duplicate (B110102-DUP1)

Source: Y108628-01

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

pH	9.53		pH Units		9.34			2.01	25	
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Batch B110104 - NO PREP

Blank (B110104-BLK1)

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

Specific Conductance (EC)	0.00420	0.00500	mmhos/cm							
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Duplicate (B110104-DUP1)

Source: Y108628-01

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

Specific Conductance (EC)	2.70	0.00500	mmhos/cm		2.73			0.976	25	
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 Wheat Ridge CO 80033

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

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MSD (L 97642-MSD-L572147)

Source: Y108634-01

Prepared: 09/01/2021 Analyzed: 09/02/2021

2-Methylnaphthalene	0.0987	0.000542	mg/Kg	0.166	0.000721	59	30-130	4.1	30	
1-Methylnaphthalene	0.0995	0.00048	"	0.166	97642	59.9	30-130	4.9	30	
Fluoranthene	0.116	0.000529	"	0.166	97642	69.8	30-130	4.4	30	
Pyrene	0.116	0.000387	"	0.166	97642	69.8	30-130	5.3	30	
Naphthalene	0.0965	0.000467	"	0.166	97642	58.1	30-130	3.3	30	
Fluorene	0.113	0.000501	"	0.166	97642	68	30-130	5.4	30	
Dibenz(a,h)anthracene	0.138	0.000279	"	0.166	97642	83.1	30-130	5.9	30	
Chrysene	0.117	0.000256	"	0.166	97642	70.4	30-130	3.4	30	
Benzo(k)fluoranthene	0.109	0.000486	"	0.166	97642	65.6	30-130	8.7	30	
Anthracene	0.117	0.000426	"	0.166	97642	70.4	30-130	4.3	30	
Indeno(1,2,3-cd)pyrene	0.139	0.000344	"	0.166	97642	83.7	30-130	6.6	30	
Acenaphthene	0.107	0.000431	"	0.166	97642	64.4	30-130	6.7	30	
Benzo(a)anthracene	0.115	0.000441	"	0.166	97642	69.2	30-130	2.6	30	
Benzo(a)pyrene	0.12	0.000133	"	0.166	97642	72.2	30-130	3.3	30	
Benzo(b)fluoranthene	0.128	0.000138	"	0.166	97642	77.1	30-130	5.6	30	
Surrogate: 4-Terphenyl-d14	65.8		"	0.331	216	65.8	33-122			
Surrogate: Nitrobenzene-d5	59.8		"	0.331	196	59.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.331	174	54.3	33-115			

MS (L 97642-MS-L572147)

Source: Y108634-01

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(b)fluoranthene	0.121	0.000138	mg/Kg	0.163	97642	74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.000344	"	0.163	97642	79.7	30-130			
Fluorene	0.107	0.000501	"	0.163	97642	65.6	30-130			
Fluoranthene	0.111	0.000529	"	0.163	97642	68	30-130			
Dibenz(a,h)anthracene	0.13	0.000279	"	0.163	97642	79.7	30-130			
Chrysene	0.113	0.000256	"	0.163	97642	69.3	30-130			
Benzo(k)fluoranthene	0.0999	0.000486	"	0.163	97642	61.2	30-130			

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

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MS (L 97642-MS-L572147)

Source: Y108634-01

Prepared: 09/01/2021 Analyzed: 09/02/2021

Naphthalene	0.0933	0.000467	mg/Kg	0.163	97642	57.2	30-130			
1-Methylnaphthalene	0.0947	0.00048	"	0.163	97642	58	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.163	97642	68.7	30-130			
Acenaphthene	0.1	0.000431	"	0.163	97642	61.3	30-130			
Pyrene	0.11	0.000387	"	0.163	97642	67.4	30-130			
2-Methylnaphthalene	0.0947	0.000542	"	0.163	0.000721	57.6	30-130			
Benzo(a)pyrene	0.116	0.000133	"	0.163	97642	71.1	30-130			
Anthracene	0.112	0.000426	"	0.163	97642	68.7	30-130			
Surrogate: 4-Terphenyl-d14	64.4		"	0.326	216	64.4	33-122			
Surrogate: Nitrobenzene-d5	57.9		"	0.326	196	57.9	29-110			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.326	174	52.4	33-115			

LCS (LCS-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Naphthalene	0.109	0.000467	mg/Kg	0.167		65.2	30-130			
Anthracene	0.128	0.000426	"	0.167		76.6	30-130			
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130			
Acenaphthene	0.116	0.000431	"	0.167		69.4	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			
Benzo(b)fluoranthene	0.128	0.000138	"	0.167		76.6	30-130			
Benzo(a)pyrene	0.135	0.000133	"	0.167		80.8	30-130			
Benzo(k)fluoranthene	0.132	0.000486	"	0.167		79	30-130			
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130			
Indeno(1,2,3-cd)pyrene	0.148	0.000344	"	0.167		88.6	30-130			
Chrysene	0.131	0.000256	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.15	0.000279	"	0.167		89.8	30-130			
Benzo(a)anthracene	0.132	0.000441	"	0.167		79	30-130			

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

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

LCS (LCS-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Fluorene	0.123	0.000501	mg/Kg	0.167		73.6	30-130			
Surrogate: Nitrobenzene-d5	75.6		"	0.333		75.6	29-110			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.333		63.3	33-115			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			

LRB (LRB-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(a)pyrene	ND	0.00067	mg/Kg							
Naphthalene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			

Origins Laboratory, Inc.

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Jordan A. Merrill 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

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

MSD (L 97658-MSD-L572102)

Source: 97658

Prepared: 09/01/2021 Analyzed: 09/02/2021

Copper	14.9	0.0806	mg/Kg	2.5	15	NR	75-125	22	80	*
Silver	0.511	0.0067	"	0.499	0.0666	102	75-125	5.1	80	
Selenium	4.22	0.103	"	4.99	0.715	70	75-125	9.1	80	*
Lead	16.1	0.031	"	2.5	15	44	75-125	12.2	80	*
Zinc	61	0.534	"	25	35	104	75-125	10.5	80	
Cadmium	0.664	0.0259	"	0.499	0.242	133	75-125	5.1	80	*
Barium	43.1	0.042	"	4.99	45	NR	75-125	41.6	80	*
Arsenic	4.57	0.0855	"	2.5	2.4	87	75-125	38.3	80	
Nickel	10.9	0.0633	"	2.5	8.34	103	75-125	15.2	80	

MS (L 97658-MS-L572102)

Source: 97658

Prepared: 09/01/2021 Analyzed: 09/02/2021

Zinc	54.9	0.534	mg/Kg	24.5	35	81	75-125			
Silver	0.538	0.0067	"	0.49	0.0666	110	75-125			
Selenium	3.85	0.103	"	4.9	0.715	64	75-125			*
Nickel	12.7	0.0633	"	2.45	8.34	178	75-125			*
Lead	18.2	0.031	"	2.45	15	131	75-125			*
Copper	18.6	0.0806	"	2.45	15	147	75-125			*
Cadmium	0.699	0.0259	"	0.49	0.242	143	75-125			*
Arsenic	3.1	0.0855	"	2.45	2.4	29	75-125			*
Barium	65.8	0.042	"	4.9	45	425	75-125			*

LCS (LCS-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Arsenic	2.54	0.0855	mg/Kg	2.5		102	80-120			
Zinc	23.6	0.534	"	25		94	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Cadmium	0.447	0.0259	"	0.5		89	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			

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

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

LCS (LCS-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Lead	2.47	0.031	mg/Kg	2.5	99	80-120
Nickel	2.34	0.0633	"	2.5	94	80-120
Selenium	5.1	0.103	"	5	102	80-120
Silver	0.484	0.0067	"	0.5	97	80-120

LRB (LRB-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Arsenic	ND	0.25	mg/Kg	-	-	-
Selenium	ND	0.25	"	-	-	-
Barium	ND	0.25	"	-	-	-
Cadmium	ND	0.25	"	-	-	-
Copper	ND	0.25	"	-	-	-
Lead	ND	0.25	"	-	-	-
Nickel	ND	0.25	"	-	-	-
Zinc	ND	2.5	"	-	-	-
Silver	ND	0.25	"	-	-	-

Origins Laboratory, Inc.

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Jordan A. Merrill 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

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572293 -

DUP (L 97642-DUP)

Source: Y108634-01

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	ND	0.244	mg/Kg		97642	-		0	20	
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MS (L 97642-MS)

Source: Y108634-01

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	6.13	0.246	mg/Kg	8.11	97642	76	75-125			
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LCS (LCS)

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	6.42	0.244	mg/Kg	8		80	75-125			
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LRB (LRB)

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	0.251	0.5	mg/Kg			-				J
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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

Notes and Definitions

- U Sample is Non-Detect.
 - J Estimated Value. Analyte below reported quantitation limit.
 - * QC Failure
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.

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