



April 21, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - Wells Ranch AE 20

Project Number - -

Attached are your analytical results for Noble - Wells Ranch AE 20 received by Origins Laboratory, Inc. April 07, 2022. This project is associated with Origins project number Y204147-01.

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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-N 3FT	Y204147-01	Soil	April 7, 2022 0:00	04/07/2022 16:34
TP-S 5FT	Y204147-02	Soil	April 7, 2022 0:00	04/07/2022 16:34
TP-MID 4FT	Y204147-03	Soil	April 7, 2022 0:00	04/07/2022 16:34
TP-E 2FT	Y204147-04	Soil	April 7, 2022 0:00	04/07/2022 16:34
BKG 1 1FT	Y204147-05	Soil	April 7, 2022 0:00	04/07/2022 16:34

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.

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y204147

page 1 of 1

Client: Frederick Env.

Project Manager: Horizon

Address: _____

Project Name: Noble - Wells Ranch AF20

Project Number: _____

Telephone Number: _____

Samples Collected By: ES

Email Address: ethom@paulh.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			Air Summa Canister #
TP-N JFT	4/7/02		3	X					X	NOTEX	TPH S.D.O.C.PH Total Metals SME, EC, PH BORON	1
BP-S SFT												2
TP-Mid 4FT												3
TP-E 2FT												4
BKG 1 FT												5
												6
												7
												8
												9
												10
Relinquished By: <u>[Signature]</u>	Date: <u>4/7/02</u>	Time: _____	Received By: <u>[Signature]</u>	Date: <u>4/7/02</u>	Time: <u>1634</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____							

Temp Received: 15.1

Date Results Needed

Origins Laboratory, Inc.

Byron

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4764147

Client: Fremont

Client Project ID: Noble - Wells Ranch AE20

Checklist Completed by: JKH

Shipped Via: FD

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

Date/time completed: 4/7/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 15.4 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TC04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>42</u>	<input checked="" type="checkbox"/>		<u>no sample times</u>
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) JKH

Date/Time Reviewed 4/8/12

Origins Laboratory, Inc.

JKH

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-N 3FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204147-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.0991	mg/L	1	B2D1108	04/11/2022	04/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1101	04/11/2022	04/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	04/12/2022	04/12/2022	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	103 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-N 3FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %	70-130	B2D12 29	04/12/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	87.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.16	0.499	meq/L	10	[CALC]	04/11/2022	04/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.657	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-N 3FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204147-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.08	pH Units	1	B2D1202	04/11/2022	04/12/2022
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SAR by 20B Saturated Paste

SAR	0.669	SAR	1	B2D1110	04/11/2022	04/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.274	0.00500	mmhos/cm	1	B2D1205	04/11/2022	04/12/2022
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Total Metals by 6020B

Arsenic	2.23	0.0855	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

TP-N 3FT

4/7/2022 12:00:00AM

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

Y204147-01 (Soil)

Total Metals by 6020B

Barium	63.8	0.042	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022	
Cadmium	0.122	0.0259	0.25	"	"	"	"	"	J
Copper	5.43	0.0806	0.25	"	"	"	"	"	
Lead	6.11	0.031	0.25	"	"	"	"	"	
Nickel	6.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J
Silver	0.0211	0.0067	0.25	"	"	"	"	"	J
Zinc	27.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L611330	04/07/2022	04/18/2022	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-S 5FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.357	0.0992	mg/L	1	B2D1108	04/11/2022	04/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1101	04/11/2022	04/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	04/12/2022	04/12/2022	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	104 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-S 5FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.6 %	70-130	B2D12 29	04/12/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	90.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.41	0.499	meq/L	10	[CALC]	04/11/2022	04/12/2022
Magnesium	1.97	0.823	"	"	"	"	"
Sodium	3.62	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-S 5FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y204147-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.65	pH Units	1	B2D1202	04/11/2022	04/12/2022
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SAR by 20B Saturated Paste

SAR	2.44	SAR	1	B2D1110	04/11/2022	04/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.783	0.00500	mmhos/cm	1	B2D1205	04/11/2022	04/12/2022
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Total Metals by 6020B

Arsenic	3.12	0.0855	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

TP-S 5FT

4/7/2022 12:00:00AM

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

Y204147-02 (Soil)

Total Metals by 6020B

Barium	62.1	0.042	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022	
Cadmium	0.0992	0.0259	0.25	"	"	"	"	"	J
Copper	6.33	0.0806	0.25	"	"	"	"	"	
Lead	8.95	0.031	0.25	"	"	"	"	"	
Nickel	6.64	0.0633	0.25	"	"	"	"	"	
Selenium	0.232	0.103	0.25	"	"	"	"	"	J
Silver	0.0255	0.0067	0.25	"	"	"	"	"	J
Zinc	31.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611330	04/07/2022	04/18/2022	
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-MID 4FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.236	0.0981	mg/L	1	B2D1108	04/11/2022	04/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1101	04/11/2022	04/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	108 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	04/12/2022	04/12/2022	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	104 %	70-130			"	"	"
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-MID 4FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.6 %	70-130	B2D12 29	04/12/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	89.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.44	0.499	meq/L	10	[CALC]	04/11/2022	04/12/2022
Magnesium	1.05	0.823	"	"	"	"	"
Sodium	0.913	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-MID 4FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y204147-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	72.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.07			pH Units	1	B2D1202	04/11/2022	04/12/2022
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SAR by 20B Saturated Paste

SAR	0.818			SAR	1	B2D1110	04/11/2022	04/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.368		0.00500	mmhos/cm	1	B2D1205	04/11/2022	04/12/2022
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Total Metals by 6020B

Arsenic	2.09	0.0855	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

TP-MID 4FT

4/7/2022 12:00:00AM

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

Y204147-03 (Soil)

Total Metals by 6020B

Barium	53.9	0.042	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022	
Cadmium	0.108	0.0259	0.25	"	"	"	"	"	J
Copper	5.61	0.0806	0.25	"	"	"	"	"	
Lead	5.39	0.031	0.25	"	"	"	"	"	
Nickel	5.95	0.0633	0.25	"	"	"	"	"	
Selenium	0.233	0.103	0.25	"	"	"	"	"	J
Silver	0.021	0.0067	0.25	"	"	"	"	"	J
Zinc	26.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.508	mg/Kg	1	L611330	04/07/2022	04/18/2022	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-E 2FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204147-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.100	0.100	mg/L	1	B2D1108	04/11/2022	04/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1101	04/11/2022	04/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	04/12/2022	04/12/2022	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	103 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-E 2FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B2D12 29	04/12/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	04/11/2022	04/12/2022
Magnesium	1.44	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

TP-E 2FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204147-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	46.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.02	pH Units	1	B2D1202	04/11/2022	04/12/2022
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SAR by 20B Saturated Paste

SAR	0.231	SAR	1	B2D1110	04/11/2022	04/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.452	0.00500	mmhos/cm	1	B2D1205	04/11/2022	04/12/2022
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Total Metals by 6020B

Arsenic	3.93	0.0855	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

TP-E 2FT

4/7/2022 12:00:00AM

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

Y204147-04 (Soil)

Total Metals by 6020B

Barium	56.6	0.042	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022	
Cadmium	0.114	0.0259	0.25	"	"	"	"	"	J
Copper	5.59	0.0806	0.25	"	"	"	"	"	
Lead	6.58	0.031	0.25	"	"	"	"	"	
Nickel	7.78	0.0633	0.25	"	"	"	"	"	
Selenium	0.275	0.103	0.25	"	"	"	"	"	
Silver	0.0177	0.0067	0.25	"	"	"	"	"	J
Zinc	27.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L611330	04/07/2022	04/18/2022	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

BKG 1 1FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204147-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.535	0.0990	mg/L	1	B2D1108	04/11/2022	04/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1101	04/11/2022	04/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	04/12/2022	04/12/2022	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	103 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

BKG 1 1FT

4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y204147-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B2D12 29	04/12/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	92.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.843	0.499	meq/L	10	[CALC]	04/11/2022	04/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.826	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

BKG 1 1FT
4/7/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204147-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610573	04/13/2022	04/18/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B2D1202	04/11/2022	04/12/2022
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SAR by 20B Saturated Paste

SAR	1.11	SAR	1	B2D1110	04/11/2022	04/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.336	0.00500	mmhos/cm	1	B2D1205	04/11/2022	04/12/2022
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Total Metals by 6020B

Arsenic	2.15	0.0855	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

BKG 1 1FT

4/7/2022 12:00:00AM

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

Y204147-05 (Soil)

Total Metals by 6020B

Barium	87.4	0.042	0.25	mg/Kg	5	L610439	04/13/2022	04/15/2022	
Cadmium	0.079	0.0259	0.25	"	"	"	"	"	J
Copper	4.06	0.0806	0.25	"	"	"	"	"	
Lead	4.78	0.031	0.25	"	"	"	"	"	
Nickel	5.04	0.0633	0.25	"	"	"	"	"	
Selenium	0.322	0.103	0.25	"	"	"	"	"	
Silver	0.0136	0.0067	0.25	"	"	"	"	"	J
Zinc	20.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611330	04/07/2022	04/18/2022	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

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 B2D1101 - EPA 3550B										
Blank (B2D1101-BLK1)					Prepared: 04/11/2022 Analyzed: 04/13/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 B2D1101 - EPA 3550B

LCS (B2D1101-BS1)

Prepared: 04/11/2022 Analyzed: 04/13/2022

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1260	200	"	1000		126	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 B2D1101 - EPA 3550B										
Matrix Spike (B2D1101-MS1)		Source: Y204145-01			Prepared: 04/11/2022 Analyzed: 04/13/2022					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1300	200	"	1000	ND	130	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

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 B2D1101 - EPA 3550B

Matrix Spike Dup (B2D1101-MSD1)		Source: Y204145-01			Prepared: 04/11/2022 Analyzed: 04/13/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	2.20	35	
Residual Range Organics (C28-C40)	1260	200	"	1000	ND	126	70-130	2.99	35	
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

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 B2D1229 - EPA 5030 (soil)										
Blank (B2D1229-BLK1)					Prepared: 04/12/2022 Analyzed: 04/12/2022					
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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	70-130			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

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 B2D1229 - EPA 5030 (soil)										
LCS (B2D1229-BS1)					Prepared: 04/12/2022 Analyzed: 04/12/2022					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.0962	0.0100	"	0.100		96.2	70-130			
Toluene	0.118	0.00200	"	0.100		118	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 B2D1229 - EPA 5030 (soil)										
Matrix Spike (B2D1229-MS1)		Source: Y204220-01			Prepared: 04/12/2022 Analyzed: 04/12/2022					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.124	0.00200	"	0.100	ND	124	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.117	0.0100	"	0.100	ND	117	70-130			
Toluene	0.120	0.00200	"	0.100	ND	120	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 B2D1229 - EPA 5030 (soil)										
Matrix Spike Dup (B2D1229-MSD1)		Source: Y204220-01			Prepared: 04/12/2022 Analyzed: 04/12/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	10.8	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	10.7	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	14.9	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	11.2	20	
Naphthalene	0.107	0.0100	"	0.100	ND	107	70-130	8.49	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	14.6	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	10.6	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.2	70-130	12.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Fremont Environmental

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Wellington CO 80549

Paul Henehan

Project Number: -

Project: Noble - Wells Ranch AE 20

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 B2D1202 - NO PREP

Duplicate (B2D1202-DUP1)

Source: Y204147-01

Prepared: 04/11/2022 Analyzed: 04/12/2022

pH	7.93		pH Units	8.08		1.87	25
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Batch B2D1205 - NO PREP

Blank (B2D1205-BLK1)

Prepared: 04/11/2022 Analyzed: 04/12/2022

Specific Conductance (EC)	0.000900	0.00500	mmhos/cm
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Duplicate (B2D1205-DUP1)

Source: Y203350-02

Prepared: 04/11/2022 Analyzed: 04/12/2022

Specific Conductance (EC)	6.27	0.00500	mmhos/cm	6.07		3.32	25
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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 L610573 - 3550B

MSD (L 85691-MSD-L610573)		Source: 85691			Prepared: 04/13/2022 Analyzed: 04/18/2022					
Pyrene	0.1	0.000643	mg/Kg	0.166	0.000857	59.7	30-130	5.8	30	
Naphthalene	0.0806	0.000484	"	0.166	85691	48.5	30-130	3.2	30	
Indeno(1,2,3-cd)pyrene	0.0974	0.000627	"	0.166	85691	58.6	30-130	19.1	30	
Fluorene	0.0881	0.000286	"	0.166	85691	53	30-130	7.4	30	
Fluoranthene	0.0985	0.000394	"	0.166	0.000625	58.9	30-130	8.2	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.166	85691	62.6	30-130	19.1	30	
Chrysene	0.0849	0.000624	"	0.166	85691	51.1	30-130	6.1	30	
Benzo(b)fluoranthene	0.068	0.000585	"	0.166	85691	40.9	30-130	10.3	30	
Benzo(a)pyrene	0.0864	0.000468	"	0.166	0.000797	51.5	30-130	14.5	30	
Benzo(a)anthracene	0.0904	0.000493	"	0.166	85691	54.4	30-130	7.6	30	
Anthracene	0.0933	0.000334	"	0.166	85691	56.2	30-130	5.8	30	
Acenaphthene	0.0796	0.000304	"	0.166	85691	47.9	30-130	5.2	30	
2-Methylnaphthalene	0.0843	0.000645	"	0.166	85691	50.7	30-130	3.3	30	
1-Methylnaphthalene	0.087	0.000364	"	0.166	85691	52.4	30-130	2.7	30	
Benzo(k)fluoranthene	0.062	0.000437	"	0.166	85691	37.3	30-130	14.7	30	
Surrogate: Nitrobenzene-d5	41.8		"	0.332	163	41.8	29-110			
Surrogate: 4-Terphenyl-d14	66.5		"	0.332	251	66.5	33-122			
Surrogate: 2-Fluorobiphenyl	56.3		"	0.332	227	56.3	33-115			

MS (L 85691-MS-L610573)		Source: 85691			Prepared: 04/13/2022 Analyzed: 04/18/2022					
Dibenz(a,h)anthracene	0.126	0.000614	mg/Kg	0.165	85691	76.3	30-130			
Pyrene	0.106	0.000643	"	0.165	0.000857	63.7	30-130			
Naphthalene	0.0833	0.000484	"	0.165	85691	50.4	30-130			
Indeno(1,2,3-cd)pyrene	0.118	0.000627	"	0.165	85691	71.5	30-130			
Fluoranthene	0.107	0.000394	"	0.165	0.000625	64.4	30-130			
Chrysene	0.0903	0.000624	"	0.165	85691	54.7	30-130			
1-Methylnaphthalene	0.0894	0.000364	"	0.165	85691	54.1	30-130			

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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 L610573 - 3550B

MS (L 85691-MS-L610573)		Source: 85691			Prepared: 04/13/2022 Analyzed: 04/18/2022					
Benzo(k)fluoranthene	0.0719	0.000437	mg/Kg	0.165	85691	43.5	30-130			
Fluorene	0.0949	0.000286	"	0.165	85691	57.5	30-130			
2-Methylnaphthalene	0.0872	0.000645	"	0.165	85691	52.8	30-130			
Benzo(b)fluoranthene	0.0754	0.000585	"	0.165	85691	45.6	30-130			
Acenaphthene	0.0839	0.000304	"	0.165	85691	50.8	30-130			
Anthracene	0.0989	0.000334	"	0.165	85691	59.9	30-130			
Benzo(a)anthracene	0.0976	0.000493	"	0.165	85691	59.1	30-130			
Benzo(a)pyrene	0.1	0.000468	"	0.165	0.000797	60.1	30-130			
Surrogate: Nitrobenzene-d5	43.9		"	0.33	163	43.9	29-110			
Surrogate: 4-Terphenyl-d14	70.6		"	0.33	251	70.6	33-122			
Surrogate: 2-Fluorobiphenyl	58.4		"	0.33	227	58.4	33-115			

LCS (LCS-L610573)		Prepared: 04/13/2022 Analyzed: 04/18/2022								
Benzo(a)anthracene	0.102	0.000493	mg/Kg	0.167		61	30-130			
Dibenz(a,h)anthracene	0.124	0.000614	"	0.167		74.2	30-130			
Chrysene	0.0941	0.000624	"	0.167		56.3	30-130			
Benzo(k)fluoranthene	0.0706	0.000437	"	0.167		42.2	30-130			
Benzo(a)pyrene	0.104	0.000468	"	0.167		62.2	30-130			
Anthracene	0.108	0.000334	"	0.167		64.6	30-130			
Acenaphthene	0.0863	0.000304	"	0.167		51.6	30-130			
Fluoranthene	0.11	0.000394	"	0.167		65.8	30-130			
1-Methylnaphthalene	0.0927	0.000364	"	0.167		55.5	30-130			
Fluorene	0.0981	0.000286	"	0.167		58.7	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.000627	"	0.167		72.4	30-130			
Naphthalene	0.0868	0.000484	"	0.167		51.9	30-130			
Pyrene	0.111	0.000643	"	0.167		66.4	30-130			
Benzo(b)fluoranthene	0.0798	0.000585	"	0.167		47.7	30-130			

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Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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
Batch L610573 - 3550B										
LCS (LCS-L610573)					Prepared: 04/13/2022 Analyzed: 04/18/2022					
2-Methylnaphthalene	0.0891	0.000645	mg/Kg	0.167		53.3	30-130			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			
Surrogate: 2-Fluorobiphenyl	66.6		"	0.333		66.6	33-115			
Surrogate: Nitrobenzene-d5	47.4		"	0.333		47.4	29-110			
LRB (LRB-L610573)					Prepared: 04/13/2022 Analyzed: 04/18/2022					
Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.000486	0.00067	"				-			J
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	0.000546	0.00067	"				-			J
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: Nitrobenzene-d5	45.9		"	0.333		45.9	29-110			

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Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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
Batch L610439 - 3050B										
MSD (L 86498-MSD-L610439)			Source: 86498		Prepared: 04/13/2022 Analyzed: 04/15/2022					
Nickel	6.51	0.0633	mg/Kg	2.35	4.25	96	75-125	105	80	
Zinc	42.9	0.534	"	23.5	20.4	96	75-125	44.4	80	
Selenium	3.93	0.103	"	4.7	0.243	78	75-125	1.5	80	
Lead	6.44	0.031	"	2.35	4.69	74	75-125	25.1	80	*
Copper	7.25	0.0806	"	2.35	5.28	84	75-125	116	80	
Cadmium	0.554	0.0259	"	0.47	0.0852	100	75-125	63.5	80	
Barium	55.3	0.042	"	4.7	53.8	32	75-125	118	80	*
Arsenic	3.09	0.0855	"	2.35	2.4	29	75-125	77.6	80	*
Silver	0.497	0.0067	"	0.47	0.021	101	75-125	6	80	
MS (L 86498-MS-L610439)			Source: 86498		Prepared: 04/13/2022 Analyzed: 04/15/2022					
Selenium	3.99	0.103	mg/Kg	4.93	0.243	76	75-125			
Silver	0.528	0.0067	"	0.493	0.021	103	75-125			
Zinc	67.4	0.534	"	24.6	20.4	191	75-125			*
Nickel	20.9	0.0633	"	2.46	4.25	676	75-125			*
Lead	8.29	0.031	"	2.46	4.69	146	75-125			*
Copper	26.5	0.161	"	2.46	5.28	862	75-125			*
Cadmium	1.07	0.0259	"	0.493	0.0852	200	75-125			*
Barium	214	0.042	"	4.93	53.8	NR	75-125			*
Arsenic	7.01	0.0855	"	2.46	2.4	187	75-125			*
LCS (LCS-L610439)			Prepared: 04/13/2022 Analyzed: 04/15/2022							
Arsenic	2.44	0.0855	mg/Kg	2.5		98	80-120			
Selenium	4.87	0.103	"	5		97	80-120			
Nickel	2.84	0.0633	"	2.5		114	80-120			
Lead	2.42	0.031	"	2.5		97	80-120			
Copper	2.8	0.0806	"	2.5		112	80-120			

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Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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 L610439 - 3050B

LCS (LCS-L610439)

Prepared: 04/13/2022 Analyzed: 04/15/2022

Cadmium	0.478	0.0259	mg/Kg	0.5		96	80-120			
Zinc	25.8	0.534	"	25		103	80-120			
Barium	4.83	0.042	"	5		97	80-120			
Silver	0.518	0.0067	"	0.5		104	80-120			

LRB (LRB-L610439)

Prepared: 04/13/2022 Analyzed: 04/15/2022

Lead	0.116	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Cadmium	ND	0.25	"				-			

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Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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
Batch L611330 -										
DUP (L 85735-DUP)		Source: Y204147-01			Prepared: Analyzed: 04/18/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		85735	-		0	20	
MS (L 85735-MS)		Source: Y204147-01			Prepared: Analyzed: 04/18/2022					
Chromium, Hexavalent	7.11	0.249	mg/Kg	8.18	85735	87	75-125			
LCS (LCS)					Prepared: Analyzed: 04/18/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 04/18/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: -
Project: Noble - Wells Ranch AE 20

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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