

December 29, 2023

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Timbro 1-41-9-59

Project Number - [none]

Attached are your analytical results for Timbro 1-41-9-59 received by Origins Laboratory, Inc. December 06, 2023. This project is associated with Origins project number Y312151-01.

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



Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Timbro 1-41-9-59

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Timbro 1-41 Sample2	Y312151-01	Soil	December 5, 2023 10:20	12/06/2023 11:58
Timbro 1-41 Sample3	Y312151-02	Soil	December 5, 2023 10:25	12/06/2023 11:58
Timbro 1-41 Sample4	Y312151-03	Soil	December 5, 2023 10:30	12/06/2023 11:58
Timbro 1-41 Sample5	Y312151-04	Soil	December 5, 2023 10:35	12/06/2023 11:58
Timbro 1-41 Sample5A	Y312151-05	Soil	December 5, 2023 10:40	12/06/2023 11:58

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4312151

page 1 of 1

Client: Verdad Resources
Address: 1125 17th Street, Suite 550
Denver CO 80202
Telephone Number: 720 845 6900
Email Address: micignotti@verdadresources.com

Project Manager: Dean Wagoner
Project Name: Timbro 1-41-9-59
Project Number: _____
Samples Collected By: Dean Wagoner
dwagoner@verdadresources.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 #	Other	Full 915				
Timbro 1-41 Sample 2	12/5/23	1020	3							X						1
Timbro 1-41 Sample 3	12/5/23	1025	3							X						2
Timbro 1-41 Sample 4	12/5/23	1030	3							X						3
Timbro 1-41 Sample 5	12/5/23	1035	3							X						4
Timbro 1-41 Sample 5A	12/5/23	1040	3							X						5
																6
																7
																8
																9
																10
Relinquished By: <u>Dean Wagoner</u>	Date: <u>10/6/23</u>	Time: <u>1158</u>		Received By: <u>EW</u>	Date: <u>12/16/23</u>	Time: <u>1158</u>		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard								

Date Results Needed

Temp Received: 15

Origins Laboratory, Inc.

J. Bynon

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4312151

Client: Verdad
Client Project ID: Timbro 1-41-9-59

Checklist Completed by: ELH

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/6/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 115 °C °C °C (Describe) °C

Thermometer ID: 7004

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) [Signature]

12/7/23
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample2
12/5/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.510	0.100	mg/L	1	B3L0803	12/08/2023	12/11/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	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	B3L0638	12/06/2023	12/11/2023	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	96.2 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample2
12/5/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %	70-130	B3L0638	12/06/2023	12/11/2023
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	12/08/2023	12/12/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.65	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample2
12/5/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B3L0812	12/08/2023	12/09/2023
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SAR by 20B Saturated Paste

SAR	1.43	0.0100	SAR	1	B3L0807	12/08/2023	12/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.388	0.00500	mmhos/cm	1	B3L0812	12/08/2023	12/09/2023
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Total Metals by 6020B

Origins Laboratory, Inc.



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1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample2
12/5/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312151-01 (Soil)

Total Metals by 6020B

Arsenic	2.02	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	694	0.042	0.25	"	"	"	"	"	
Cadmium	0.0726	0.026	0.25	"	"	"	"	"	J
Copper	12.1	0.0805	0.25	"	"	"	"	"	
Lead	9.73	0.031	0.25	"	"	"	"	"	
Nickel	9.86	0.0635	0.25	"	"	"	"	"	
Selenium	0.597	0.103	0.25	"	"	"	"	"	
Silver	0.0403	0.0067	0.25	"	"	"	"	"	J
Zinc	46.9	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample3
12/5/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.295	0.0986	mg/L	1	B3L0803	12/08/2023	12/11/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0638	12/06/2023	12/11/2023	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	93.6 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample3
12/5/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B3L0638	12/06/2023	12/11/2023
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.50	0.499	meq/L	10	[CALC]	12/08/2023	12/12/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.34	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample3
12/5/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	108 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B3L0812	12/08/2023	12/09/2023
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SAR by 20B Saturated Paste

SAR	1.37	0.0100	SAR	1	B3L0807	12/08/2023	12/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.344	0.00500	mmhos/cm	1	B3L0812	12/08/2023	12/09/2023
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Total Metals by 6020B

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample3
12/5/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312151-02 (Soil)

Total Metals by 6020B

Arsenic	2.16	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	729	0.042	0.25	"	"	"	"	"	
Cadmium	0.0804	0.026	0.25	"	"	"	"	"	J
Copper	11.2	0.0805	0.25	"	"	"	"	"	
Lead	11.2	0.031	0.25	"	"	"	"	"	
Nickel	8.28	0.0635	0.25	"	"	"	"	"	
Selenium	0.599	0.103	0.25	"	"	"	"	"	
Silver	0.0217	0.0067	0.25	"	"	"	"	"	J
Zinc	41	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample4
12/5/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.390	0.100	mg/L	1	B3L0803	12/08/2023	12/11/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0638	12/06/2023	12/11/2023	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	95.5 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample4
12/5/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %	70-130	B3L0638	12/06/2023	12/11/2023
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.84	0.499	meq/L	10	[CALC]	12/08/2023	12/12/2023
Magnesium	1.33	0.823	"	"	"	"	"
Sodium	1.82	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample4
12/5/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B3L0812	12/08/2023	12/09/2023
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SAR by 20B Saturated Paste

SAR	1.13	0.0100	SAR	1	B3L0807	12/08/2023	12/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.787	0.00500	mmhos/cm	1	B3L0812	12/08/2023	12/09/2023
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Total Metals by 6020B

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample4
12/5/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312151-03 (Soil)

Total Metals by 6020B

Arsenic	2.16	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	180	0.042	0.25	"	"	"	"	"	
Cadmium	0.0908	0.026	0.25	"	"	"	"	"	J
Copper	8.67	0.0805	0.25	"	"	"	"	"	
Lead	8.52	0.031	0.25	"	"	"	"	"	
Nickel	7.53	0.0635	0.25	"	"	"	"	"	
Selenium	0.6	0.103	0.25	"	"	"	"	"	
Silver	0.0278	0.0067	0.25	"	"	"	"	"	J
Zinc	35	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5
12/5/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.376	0.0995	mg/L	1	B3L0803	12/08/2023	12/11/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0638	12/06/2023	12/11/2023	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	92.8 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5
12/5/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %	70-130	B3L0638	12/06/2023	12/11/2023
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.45	0.499	meq/L	10	[CALC]	12/08/2023	12/12/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.48	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5
12/5/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-04 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.32	pH Units	1	B3L0812	12/08/2023	12/09/2023
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SAR by 20B Saturated Paste

SAR	1.47	0.0100	SAR	1	B3L0807	12/08/2023	12/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.397	0.00500	mmhos/cm	1	B3L0812	12/08/2023	12/09/2023
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Total Metals by 6020B

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5
12/5/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312151-04 (Soil)

Total Metals by 6020B

Arsenic	2.41	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	241	0.042	0.25	"	"	"	"	"	
Cadmium	0.0789	0.026	0.25	"	"	"	"	"	J
Copper	11.6	0.0805	0.25	"	"	"	"	"	
Lead	10.9	0.031	0.25	"	"	"	"	"	
Nickel	9.39	0.0635	0.25	"	"	"	"	"	
Selenium	0.584	0.103	0.25	"	"	"	"	"	
Silver	0.0293	0.0067	0.25	"	"	"	"	"	J
Zinc	46.2	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5A
12/5/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.191	0.101	mg/L	1	B3L0803	12/08/2023	12/11/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0638	12/06/2023	12/11/2023	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	89.9 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5A
12/5/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B3L0638	12/06/2023	12/11/2023
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.00	0.499	meq/L	10	[CALC]	12/08/2023	12/12/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.17	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5A
12/5/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312151-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B3L0812	12/08/2023	12/09/2023
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SAR by 20B Saturated Paste

SAR	2.78	0.0100	SAR	1	B3L0807	12/08/2023	12/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.282	0.00500	mmhos/cm	1	B3L0812	12/08/2023	12/09/2023
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Total Metals by 6020B

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Timbro 1-41 Sample5A
12/5/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312151-05 (Soil)

Total Metals by 6020B

Arsenic	1.35	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	236	0.042	0.25	"	"	"	"	"	
Cadmium	0.0342	0.026	0.25	"	"	"	"	"	J
Copper	14.1	0.0805	0.25	"	"	"	"	"	
Lead	5.27	0.031	0.25	"	"	"	"	"	
Nickel	9.61	0.0635	0.25	"	"	"	"	"	
Selenium	0.321	0.103	0.25	"	"	"	"	"	
Silver	0.016	0.0067	0.25	"	"	"	"	"	J
Zinc	53.2	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)										
Blank (B3L0638-BLK1)					Prepared: 12/06/2023 Analyzed: 12/11/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.095		"	0.125		76.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)										
LCS (B3L0638-BS1)					Prepared: 12/06/2023 Analyzed: 12/11/2023					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)										
Matrix Spike (B3L0638-MS1)		Source: Y312128-01			Prepared: 12/06/2023 Analyzed: 12/11/2023					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Naphthalene	0.131	0.00380	"	0.100	ND	131	70-130			QM-07
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.127	0.00200	"	0.100	ND	127	70-130			
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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.

Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)										
Matrix Spike Dup (B3L0638-MSD1)		Source: Y312128-01			Prepared: 12/06/2023 Analyzed: 12/11/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	11.9	20	
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	13.2	20	
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	13.1	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	13.0	20	
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130	13.4	20	
Toluene	0.0878	0.00200	"	0.100	ND	87.8	70-130	16.8	20	
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130	13.3	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.6	70-130	14.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.095		"	0.125		76.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0701 - EPA 3550B										
Blank (B3L0701-BLK1)					Prepared: 12/07/2023 Analyzed: 12/09/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

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Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0701 - EPA 3550B

LCS (B3L0701-BS1)

Prepared: 12/07/2023 Analyzed: 12/09/2023

Diesel (C10-C28)	885	50.0	mg/kg	1000		88.5	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000		94.5	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0701 - EPA 3550B

Matrix Spike (B3L0701-MS1)		Source: Y312131-01			Prepared: 12/07/2023 Analyzed: 12/09/2023					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Project Number: [none]
Project: Timbro 1-41-9-59

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 B3L0701 - EPA 3550B										
Matrix Spike Dup (B3L0701-MSD1)		Source: Y312131-01			Prepared: 12/07/2023 Analyzed: 12/09/2023					
Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	70-130	2.06	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	1.52	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L0822 - EPA 3580

Blank (B3L0822-BLK1)

Prepared: 12/08/2023 Analyzed: 12/12/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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Project Number: [none]
Project: Timbro 1-41-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L0822 - EPA 3580

LCS (B3L0822-BS1)

Prepared: 12/08/2023 Analyzed: 12/12/2023

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		101	70-130
2-Methylnaphthalene	0.201	0.002	"	0.200		101	70-130
Acenaphthene	0.194	0.020	"	0.200		97.2	70-130
Anthracene	0.203	0.020	"	0.200		101	70-130
Benzo (a) anthracene	0.181	0.005	"	0.200		90.5	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200		97.6	70-130
Benzo (b) fluoranthene	0.176	0.020	"	0.200		88.0	70-130
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130
Benzo (k) fluoranthene	0.166	0.020	"	0.200		83.0	70-130
Chrysene	0.175	0.020	"	0.200		87.3	70-130
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130
Fluoranthene	0.203	0.020	"	0.200		102	70-130
Fluorene	0.213	0.020	"	0.200		106	70-130
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200		111	70-130
Naphthalene	0.196	0.002	"	0.200		97.8	70-130
Phenanthrene	0.187	0.020	"	0.200		93.4	70-130
Pyrene	0.176	0.020	"	0.200		88.0	70-130

Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	190		"	200		97.0	60-130
Surrogate: Pyrene-d10	190		"	200		93.7	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130

Matrix Spike (B3L0822-MS1)

Source: Y312119-01

Prepared: 12/08/2023 Analyzed: 12/12/2023

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130
Acenaphthene	0.198	0.020	"	0.200	ND	99.1	70-130
Anthracene	0.204	0.020	"	0.200	ND	102	70-130

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Project Number: [none]
Project: Timbro 1-41-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L0822 - EPA 3580

Matrix Spike (B3L0822-MS1)		Source: Y312119-01			Prepared: 12/08/2023 Analyzed: 12/12/2023					
Benzo (a) anthracene	0.178	0.005	mg/kg	0.200	ND	89.0	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	ND	92.5	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200	ND	84.4	70-130			
Chrysene	0.184	0.020	"	0.200	ND	92.2	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	ND	111	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.199	0.020	"	0.200	ND	99.3	70-130			
Pyrene	0.180	0.020	"	0.200	ND	89.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	180		"	200		92.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

Matrix Spike Dup (B3L0822-MSD1)		Source: Y312119-01			Prepared: 12/08/2023 Analyzed: 12/12/2023					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	2.77	20	
2-Methylnaphthalene	0.201	0.002	"	0.200	ND	101	70-130	3.27	20	
Acenaphthene	0.198	0.020	"	0.200	ND	98.8	70-130	0.293	20	
Anthracene	0.181	0.020	"	0.200	ND	90.7	70-130	11.5	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	ND	93.8	70-130	5.27	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130	3.87	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	ND	90.9	70-130	1.69	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	ND	101	70-130	2.87	20	

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Project: Timbro 1-41-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L0822 - EPA 3580										
Matrix Spike Dup (B3L0822-MSD1)			Source: Y312119-01		Prepared: 12/08/2023 Analyzed: 12/12/2023					
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	85.1	70-130	0.725	20	
Chrysene	0.177	0.020	"	0.200	ND	88.3	70-130	4.30	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130	2.06	20	
Fluoranthene	0.207	0.020	"	0.200	ND	104	70-130	1.24	20	
Fluorene	0.207	0.020	"	0.200	ND	103	70-130	0.544	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130	3.63	20	
Naphthalene	0.199	0.002	"	0.200	ND	99.3	70-130	1.68	20	
Phenanthrene	0.194	0.020	"	0.200	ND	97.2	70-130	2.18	20	
Pyrene	0.182	0.020	"	0.200	ND	90.8	70-130	1.06	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

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Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Classical Chemistry Parameters - 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 B3L0803 - DTPA Sorbitol Preparation

Blank (B3L0803-BLK1)

Prepared: 12/08/2023 Analyzed: 12/11/2023

Boron ND 0.100 mg/L

Duplicate (B3L0803-DUP1)

Source: Y312127-05

Prepared: 12/08/2023 Analyzed: 12/11/2023

Boron 0.227 0.0987 mg/L 0.204 10.5 50

Batch B3L0807 - Saturated Paste Metals

Blank (B3L0807-BLK1)

Prepared: 12/08/2023 Analyzed: 12/12/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3L0807-DUP1)

Source: Y312151-01

Prepared: 12/08/2023 Analyzed: 12/12/2023

SAR ND 0.0100 SAR 1.43 200

Calcium PPM 29.8 10.0 mg/L 41.5 32.9 50

Magnesium PPM 6.65 10.0 " 7.06 5.98 50

Sodium PPM 36.4 10.0 " 37.9 4.04 50

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Project: Timbro 1-41-9-59

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L0812 - Saturated Paste pH/EC										
Blank (B3L0812-BLK1)					Prepared: 12/08/2023 Analyzed: 12/09/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L0812-DUP1)					Source: Y312151-01 Prepared: 12/08/2023 Analyzed: 12/09/2023					
pH	8.36		pH Units		8.37			0.120	25	
Specific Conductance (EC)	0.385	0.00500	mmhos/cm		0.388			0.777	25	

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Project Number: [none]
Project: Timbro 1-41-9-59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L721430 - 3050B										
MSD (L 89014-MSD-L721430)			Source: 89014		Prepared: 12/08/2023 Analyzed: 12/28/2023					
Lead	6.26	0.25	mg/Kg	2.5	4.65	64	75-125	1.2	80	*
Zinc	41.4	2.5	"	25	21.1	81	75-125	7.5	80	
Silver	0.467	0.25	"	0.5	0.0174	90	75-125	1	80	
Nickel	6.73	0.25	"	2.5	5.21	61	75-125	9	80	*
Copper	6.81	0.25	"	2.5	4.48	93	75-125	24.3	80	
Cadmium	0.521	0.25	"	0.5	0.0997	84	75-125	0.3	80	
Barium	48.8	0.25	"	5	62.2	0	75-125	58.3	80	I*
Arsenic	5.91	0.25	"	2.5	3.59	93	75-125	16.4	80	
Selenium	4.77	0.25	"	5	0.47	86	75-125	7.3	80	
MS (L 89014-MS-L721430)			Source: 89014		Prepared: 12/08/2023 Analyzed: 12/28/2023					
Zinc	38.4	2.5	mg/Kg	24.7	21.1	70	75-125			*
Selenium	4.43	0.25	"	4.94	0.47	80	75-125			
Silver	0.462	0.25	"	0.494	0.0174	90	75-125			
Barium	89	0.25	"	4.94	62.2	543	75-125			I*
Lead	6.18	0.25	"	2.47	4.65	62	75-125			*
Cadmium	0.519	0.25	"	0.494	0.0997	85	75-125			
Arsenic	5.01	0.25	"	2.47	3.59	58	75-125			*
Copper	5.33	0.25	"	2.47	4.48	34	75-125			*
Nickel	6.15	0.25	"	2.47	5.21	38	75-125			*
LCS (LCS-L721430)			Prepared: 12/08/2023 Analyzed: 12/28/2023							
Silver	0.479	0.25	mg/Kg	0.5		96	80-120			
Zinc	23.2	2.5	"	25		93	80-120			
Selenium	4.55	0.25	"	5		91	80-120			
Nickel	2.31	0.25	"	2.5		92	80-120			
Copper	2.31	0.25	"	2.5		92	80-120			

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Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721430 - 3050B

LCS (LCS-L721430)

Prepared: 12/08/2023 Analyzed: 12/28/2023

Cadmium	0.451	0.25	mg/Kg	0.5		90	80-120
Barium	4.81	0.25	"	5		96	80-120
Arsenic	2.21	0.25	"	2.5		88	80-120
Lead	2.42	0.25	"	2.5		97	80-120

LRB (LRB-L721430)

Prepared: 12/08/2023 Analyzed: 12/28/2023

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

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Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L721732 -										
DUP (L 89003-DUP)	Source: 89003				Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		89003	-		0	20	
MS (L 89003-MS)	Source: 89003				Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	29.5	2.5	mg/Kg	39.4	89003	75	75-125			
LCS (LCS)					Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	7	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

I* [Undefined]

* 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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.