

October 31, 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. October 16, 2023. This project is associated with Origins project number Y310437-01.

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 1-41-9-59 WH	Y310437-01	Soil	October 16, 2023 13:50	10/16/2023 15:45
Timbro 1-41-9-59 BG	Y310437-02	Soil	October 16, 2023 14:15	10/16/2023 15:45

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: VB10437

Client: Verdad

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

Checklist Completed by: TJT/CHS

Shipped Via: tlp

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

Date/time completed: 10/17/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 22 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		SD
Is there ice present (document if blue ice is used)		X		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 10/18/23

Origins Laboratory, Inc.

[Signature]

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Verdad Resources
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 Denver CO 80202

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

Timbro 1-41-9-59 WH
10/16/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.687		0.100	mg/L	1	B3J1810	10/18/2023	10/19/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J1702	10/17/2023	10/19/2023	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	69.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J1707	10/17/2023	10/18/2023	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
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 Denver CO 80202

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

Timbro 1-41-9-59 WH
10/16/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.2 %		70-130			B3J17 07	10/17/2023	10/18/2023	
Surrogate: 4-Bromofluorobenzene	97.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.46		0.499	meq/L	10	[CALC]	10/18/2023	10/19/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.96		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3J1821	10/18/2023	10/26/2023	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Verdad Resources
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 Denver CO 80202

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

Timbro 1-41-9-59 WH
10/16/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3J1821	10/18/2023	10/26/2023	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	130 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B3J1813	10/18/2023	10/19/2023	
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SAR by 20B Saturated Paste

SAR	2.04		0.0100	SAR	1	B3J1806	10/18/2023	10/19/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.378		0.00500	mmhos/cm	1	B3J1813	10/18/2023	10/19/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Timbro 1-41-9-59 WH
10/16/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.22	0.0952	0.0952	mg/kg	10	B3J1720	10/17/2023	10/20/2023	
Barium	205	9.52	9.52	"	"	"	"	"	
Cadmium	0.103	0.0952	0.0952	"	"	"	"	"	
Chromium	13.1	9.52	9.52	"	"	"	"	"	
Copper	13.1	9.52	9.52	"	"	"	"	"	
Lead	9.58	9.52	9.52	"	"	"	"	"	
Nickel	ND	9.52	9.52	"	"	"	"	"	
Selenium	ND	0.0952	0.0952	"	"	"	"	"	
Silver	ND	0.0952	0.0952	"	"	"	"	"	
Zinc	ND	95.2	95.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.379	mg/kg dry	1	2510704	10/19/2023	10/19/2023	U
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Timbro 1-41-9-59 BG
10/16/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.468		0.100	mg/L	1	B3J1810	10/18/2023	10/19/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J1702	10/17/2023	10/19/2023	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	72.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J1707	10/17/2023	10/18/2023	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Verdad Resources
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 Denver CO 80202

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

Timbro 1-41-9-59 BG
10/16/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.1 %		70-130			B3J17 07	10/17/2023	10/18/2023	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.40		0.499	meq/L	10	[CALC]	10/18/2023	10/19/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.82		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3J1821	10/18/2023	10/26/2023	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Denver CO 80202

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

Timbro 1-41-9-59 BG
10/16/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3J1821	10/18/2023	10/26/2023	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	127 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B3J1813	10/18/2023	10/19/2023	
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SAR by 20B Saturated Paste

SAR	1.93		0.0100	SAR	1	B3J1806	10/18/2023	10/19/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.348		0.00500	mmhos/cm	1	B3J1813	10/18/2023	10/19/2023	
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Table 915 metals by EPA 6020B

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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 1-41-9-59 BG
10/16/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310437-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.44		0.0923	mg/kg	10	B3J1720	10/17/2023	10/20/2023	
Barium	414		9.23	"	"	"	"	"	
Cadmium	0.0932		0.0923	"	"	"	"	"	
Chromium	13.0		9.23	"	"	"	"	"	
Copper	13.4		9.23	"	"	"	"	"	
Lead	15.0		9.23	"	"	"	"	"	
Nickel	ND		9.23	"	"	"	"	"	
Selenium	ND		0.0923	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		92.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2510704	10/19/2023	10/19/2023	U
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 Denver CO 80202

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
Batch B3J1702 - EPA 3550B										
Blank (B3J1702-BLK1)										
					Prepared: 10/17/2023 Analyzed: 10/18/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		112	50-150			

Origins Laboratory, Inc.



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 Denver CO 80202

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 B3J1702 - EPA 3550B

LCS (B3J1702-BS1)

Prepared: 10/17/2023 Analyzed: 10/18/2023

Diesel (C10-C28)	881	50.0	mg/kg	1000		88.1	70-130			
Residual Range Organics (C28-C40)	952	200	"	1000		95.2	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.0	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
Batch B3J1702 - EPA 3550B										
Matrix Spike (B3J1702-MS1)		Source: Y310434-01			Prepared: 10/17/2023 Analyzed: 10/18/2023					
Diesel (C10-C28)	30800	50.0	mg/kg	1000	37900	NR	70-130			QM-07
Residual Range Organics (C28-C40)	42500	200	"	1000	38100	437	70-130			QM-07
Surrogate: o-Terphenyl	160		"	49.8		331	50-150			S-04

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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
Batch B3J1702 - EPA 3550B										
Matrix Spike Dup (B3J1702-MSD1)					Source: Y310434-01					Prepared: 10/17/2023 Analyzed: 10/18/2023
Diesel (C10-C28)	28600	50.0	mg/kg	1000	37900	NR	70-130	7.49	35	QM-07
Residual Range Organics (C28-C40)	37500	200	"	1000	38100	NR	70-130	12.5	35	QM-07
Surrogate: o-Terphenyl	410		"	49.8		824	50-150			S-04

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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 B3J1707 - EPA 5030 (soil)

Blank (B3J1707-BLK1)

Prepared: 10/17/2023 Analyzed: 10/17/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	115		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.0		70-130			

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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
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Batch B3J1707 - EPA 5030 (soil)

LCS (B3J1707-BS1)

Prepared: 10/17/2023 Analyzed: 10/17/2023

1,2,4-Trimethylbenzene	0.0892	0.00200	mg/kg	0.100		89.2	70-130			
1,3,5-Trimethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Benzene	0.0833	0.00200	"	0.100		83.3	70-130			
Ethylbenzene	0.0848	0.00200	"	0.100		84.8	70-130			
Naphthalene	0.0845	0.00380	"	0.100		84.5	70-130			
Toluene	0.0864	0.00200	"	0.100		86.4	70-130			
o-Xylene	0.0909	0.00200	"	0.100		90.9	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1707 - EPA 5030 (soil)

Matrix Spike (B3J1707-MS1)	Source: Y310415-21			Prepared: 10/17/2023 Analyzed: 10/18/2023						
1,2,4-Trimethylbenzene	0.0790	0.00200	mg/kg	0.100	ND	79.0	70-130			
1,3,5-Trimethylbenzene	0.0767	0.00200	"	0.100	ND	76.7	70-130			
Benzene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
Ethylbenzene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
Naphthalene	0.0906	0.00380	"	0.100	ND	90.6	70-130			
Toluene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
o-Xylene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1707 - EPA 5030 (soil)

Matrix Spike Dup (B3J1707-MSD1)	Source: Y310415-21			Prepared: 10/17/2023 Analyzed: 10/18/2023						
1,2,4-Trimethylbenzene	0.0851	0.00200	mg/kg	0.100	ND	85.1	70-130	7.46	20	
1,3,5-Trimethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130	7.09	20	
Benzene	0.109	0.00200	"	0.100	ND	109	70-130	10.0	20	
Ethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	9.32	20	
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130	11.4	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	7.80	20	
o-Xylene	0.0962	0.00200	"	0.100	ND	96.2	70-130	9.61	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.7	70-130	9.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 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
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1720 - EPA 3050B

Blank (B3J1720-BLK1)

Prepared: 10/17/2023 Analyzed: 10/20/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Chromium	ND	0.0100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3J1720-BS1)

Prepared: 10/17/2023 Analyzed: 10/20/2023

Arsenic	0.0497	0.000100	mg/kg	0.0500		99.4	80-120			
Barium	4.98	0.0100	"	5.00		99.5	80-120			
Cadmium	0.0509	0.000100	"	0.0500		102	80-120			
Chromium	0.0524	0.0100	"	0.0500		105	80-120			
Copper	0.542	0.0100	"	0.500		108	80-120			
Lead	0.0504	0.0100	"	0.0500		101	80-120			
Nickel	0.0491	0.0100	"	0.0500		98.2	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.7	80-120			
Silver	0.0479	0.000100	"	0.0500		95.8	80-120			

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 Project: Timbro 1-41-9-59

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1720 - EPA 3050B

LCS (B3J1720-BS1)

Prepared: 10/17/2023 Analyzed: 10/20/2023

Zinc	0.506	0.100	mg/kg	0.500		101	80-120			
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Matrix Spike (B3J1720-MS1)

Source: Y310404-03

Prepared: 10/17/2023 Analyzed: 10/20/2023

Arsenic	6.53	0.0946	mg/kg	4.73	1.71	102	75-125			
Barium	546	9.46	"	473	58.5	103	75-125			
Cadmium	5.05	0.0946	"	4.73	0.0499	106	75-125			
Chromium	14.6	9.46	"	4.73	9.39	109	75-125			
Copper	55.5	9.46	"	47.3	3.95	109	75-125			
Lead	9.83	9.46	"	4.73	5.29	96.1	75-125			
Nickel	9.76	9.46	"	4.73	5.09	98.8	75-125			
Selenium	4.49	0.0946	"	4.73	0.0634	93.5	75-125			
Silver	4.64	0.0946	"	4.73	0.0317	97.4	75-125			
Zinc	71.3	94.6	"	47.3	21.0	106	75-125			

Matrix Spike Dup (B3J1720-MSD1)

Source: Y310404-03

Prepared: 10/17/2023 Analyzed: 10/20/2023

Arsenic	6.41	0.0930	mg/kg	4.65	1.71	101	75-125	1.86	20	
Barium	524	9.30	"	465	58.5	100	75-125	4.09	20	
Cadmium	4.81	0.0930	"	4.65	0.0499	102	75-125	4.75	20	
Chromium	14.4	9.30	"	4.65	9.39	107	75-125	1.47	20	
Copper	53.2	9.30	"	46.5	3.95	106	75-125	4.32	20	
Lead	10.0	9.30	"	4.65	5.29	102	75-125	1.96	20	
Nickel	10.1	9.30	"	4.65	5.09	107	75-125	3.19	20	
Selenium	4.40	0.0930	"	4.65	0.0634	93.4	75-125	1.87	20	
Silver	4.43	0.0930	"	4.65	0.0317	94.7	75-125	4.52	20	
Zinc	69.6	93.0	"	46.5	21.0	105	75-125	2.35	20	

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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 B3J1821 - EPA 3580

Blank (B3J1821-BLK1)

Prepared: 10/18/2023 Analyzed: 10/26/2023

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		97.0	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.1	60-130			

LCS (B3J1821-BS1)

Prepared: 10/18/2023 Analyzed: 10/26/2023

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.6	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.5	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.172	0.020	"	0.200		86.1	70-130			

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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 B3J1821 - EPA 3580

LCS (B3J1821-BS1)

Prepared: 10/18/2023 Analyzed: 10/26/2023

Benzo (a) anthracene	0.168	0.005	mg/kg	0.200		83.8	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		84.1	70-130			
Chrysene	0.183	0.020	"	0.200		91.4	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		95.0	70-130			
Fluoranthene	0.178	0.020	"	0.200		88.9	70-130			
Fluorene	0.195	0.020	"	0.200		97.3	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.198	0.002	"	0.200		98.9	70-130			
Phenanthrene	0.194	0.020	"	0.200		96.8	70-130			
Pyrene	0.228	0.020	"	0.200		114	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	250		"	200		123	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B3J1821-MS1)

Source: Y310437-01

Prepared: 10/18/2023 Analyzed: 10/26/2023

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	ND	93.0	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.4	70-130			
Acenaphthene	0.190	0.020	"	0.200	ND	95.0	70-130			
Anthracene	0.161	0.020	"	0.200	0.001	79.9	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200	ND	94.3	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200	ND	96.5	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200	ND	90.7	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	ND	97.3	70-130			

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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 B3J1821 - EPA 3580

Matrix Spike (B3J1821-MS1)		Source: Y310437-01			Prepared: 10/18/2023 Analyzed: 10/26/2023					
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	84.9	70-130			
Chrysene	0.183	0.020	"	0.200	ND	91.5	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.7	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Fluorene	0.191	0.020	"	0.200	ND	95.4	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.1	70-130			
Naphthalene	0.189	0.002	"	0.200	ND	94.6	70-130			
Phenanthrene	0.181	0.020	"	0.200	ND	90.6	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B3J1821-MSD1)		Source: Y310437-01			Prepared: 10/18/2023 Analyzed: 10/26/2023					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	95.2	70-130	2.36	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.3	70-130	5.31	20	
Acenaphthene	0.196	0.020	"	0.200	ND	97.9	70-130	2.95	20	
Anthracene	0.172	0.020	"	0.200	0.001	85.3	70-130	6.57	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	ND	85.3	70-130	10.0	20	
Benzo (a) pyrene	0.210	0.020	"	0.200	ND	105	70-130	8.27	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	103	70-130	12.2	20	
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	ND	99.4	70-130	2.11	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	ND	86.9	70-130	2.29	20	
Chrysene	0.185	0.020	"	0.200	ND	92.4	70-130	0.973	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.6	70-130	1.12	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.3	70-130	5.73	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1821 - EPA 3580

Matrix Spike Dup (B3J1821-MSD1)	Source: Y310437-01			Prepared: 10/18/2023 Analyzed: 10/26/2023						
Fluorene	0.192	0.020	mg/kg	0.200	ND	95.9	70-130	0.532	20	
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200	ND	87.7	70-130	1.62	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130	4.07	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.1	70-130	5.80	20	
Pyrene	0.231	0.020	"	0.200	ND	115	70-130	15.2	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	250		"	200		125	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

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 Project: Timbro 1-41-9-59

Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J1806 - Saturated Paste Metals

Blank (B3J1806-BLK1)

Prepared: 10/18/2023 Analyzed: 10/19/2023

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3J1806-DUP1)

Source: Y310437-01

Prepared: 10/18/2023 Analyzed: 10/19/2023

Calcium PPM	27.4	10.0	mg/L		29.2			6.64	50	
SAR	ND	0.0100	SAR		2.04				200	
Magnesium PPM	4.54	10.0	mg/L		4.75			4.52	50	
Sodium PPM	44.6	10.0	"		45.0			1.00	50	

Batch B3J1810 - DTPA Sorbitol Preparation

Blank (B3J1810-BLK1)

Prepared: 10/18/2023 Analyzed: 10/19/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3J1810-DUP1)

Source: Y310437-01

Prepared: 10/18/2023 Analyzed: 10/19/2023

Boron	0.677	0.100	mg/L		0.687			1.38	50	
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Dean Wagoner
 Project Number: [none]
 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 B3J1813 - Saturated Paste pH/EC										
Blank (B3J1813-BLK1)					Prepared: 10/18/2023 Analyzed: 10/19/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3J1813-DUP1)					Source: Y310437-01 Prepared: 10/18/2023 Analyzed: 10/19/2023					
pH	8.19		pH Units		8.21			0.244	25	
Specific Conductance (EC)	0.366	0.00500	mmhos/cm		0.378			3.23	25	

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

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2510704 - SW846 3060A										
BLANK (1205550314-BLK)					Prepared: 10/19/2023 Analyzed: 10/19/2023					
Hexavalent Chromium	ND	0.329	mg/kg				-			U
LCS (1205550315-BKS)					Prepared: 10/19/2023 Analyzed: 10/19/2023					
Hexavalent Chromium	3.18	0.324	mg/kg	3.24		98.4	80-120			
DUP (1205550318 D)					Source: 641711001 Prepared: 10/19/2023 Analyzed: 10/19/2023					
Hexavalent Chromium	ND	0.310	mg/kg dry		<0.124		0-50	N/A	50	U
MS (1205550319 S)					Source: 641711001 Prepared: 10/19/2023 Analyzed: 10/19/2023					
Hexavalent Chromium	2.31	0.310	mg/kg dry	3.10	<0.124	73.4	75-125			
ILCS (1205550320-ILCS)					Prepared: 10/19/2023 Analyzed: 10/19/2023					
Hexavalent Chromium	5.96	0.302	mg/kg	6.17		96.6	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.



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