

ATTACHMENT A
LABORATORY ANALYTICAL DATA

February 14, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Cholla - Santa Fe Trail 1-34

Project Number - [none]

Attached are your analytical results for Cholla - Santa Fe Trail 1-34 received by Origins Laboratory, Inc. February 09, 2023. This project is associated with Origins project number Y302181-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: Cholla - Santa Fe Trail 1-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@7'	Y302181-01	Soil	February 8, 2023 15:00	02/09/2023 17:08
WH-BG01@7'	Y302181-02	Soil	February 8, 2023 15:20	02/09/2023 17:08

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302181

Client: Tasman
 Client Project ID: Santa Fe Trail 1-34

Checklist Completed by: EHS/DE

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

Date/time completed: 2/19/23

Airbill #: NA

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

Cooler Number/Temperature: 1108 °C / _____ °C / _____ °C (Describe)

Thermometer ID: J004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
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)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
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.

DE
 Reviewed by (Project Manager)

02/09/2023
 Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

WH-B01@7'
2/8/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302181-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.171	0.0999	mg/L	1	B3B1002	KAP	02/10/2023	02/13/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0901	ZZZ	02/09/2023	02/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.9 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0903	ZZZ	02/09/2023	02/09/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

WH-B01@7'

2/8/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302181-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	28.7	0.499	meq/L	10	[CALC]	KAP	02/10/2023	02/13/2023
Magnesium	4.87	0.823	"	"	"	KAP	"	"
Sodium	1.53	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.81		pH Units	1	B3B1007	HJD	02/10/2023	02/11/2023
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SAR by 20B Saturated Paste

SAR	0.374		SAR	1	B3B1004	KAP	02/10/2023	02/13/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.70	0.00500	mmhos/cm	1	B3B1007	HJD	02/10/2023	02/11/2023
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

WH-BG01@7'

2/8/2023 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302181-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.437	0.100	mg/L	1	B3B1002	KAP	02/10/2023	02/13/2023
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Metals by Saturated Paste by EPA 6010

Calcium	10.8	0.499	meq/L	10	[CALC]	KAP	02/10/2023	02/13/2023
Magnesium	3.16	0.823	"	"	"	KAP	"	"
Sodium	6.81	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.84		pH Units	1	B3B1007	HJD	02/10/2023	02/11/2023
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SAR by 20B Saturated Paste

SAR	2.58		SAR	1	B3B1004	KAP	02/10/2023	02/13/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.23	0.00500	mmhos/cm	1	B3B1007	HJD	02/10/2023	02/11/2023
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0901 - EPA 3580										
Blank (B3B0901-BLK1)										
					Prepared: 02/09/2023 Analyzed: 02/09/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.0	50-150			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0901 - EPA 3580

LCS (B3B0901-BS1)

Prepared: 02/09/2023 Analyzed: 02/09/2023

Diesel (C10-C28)	953	50.0	mg/kg	1000		95.3	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0901 - EPA 3580

Matrix Spike (B3B0901-MS1)	Source: Y302171-02			Prepared: 02/09/2023 Analyzed: 02/09/2023						
Diesel (C10-C28)	1290	50.0	mg/kg	1000	166	113	70-130			
Residual Range Organics (C28-C40)	1940	200	"	1000	451	149	70-130			QM-07
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0901 - EPA 3580

Matrix Spike Dup (B3B0901-MSD1)	Source: Y302171-02			Prepared: 02/09/2023 Analyzed: 02/09/2023						
Diesel (C10-C28)	1330	50.0	mg/kg	1000	166	116	70-130	2.73	35	
Residual Range Organics (C28-C40)	1980	200	"	1000	451	153	70-130	2.26	35	QM-07
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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Batch B3B0903 - EPA 5030 (soil)

Blank (B3B0903-BLK1)

Prepared: 02/09/2023 Analyzed: 02/09/2023

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	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	107		70-130			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0903 - EPA 5030 (soil)

LCS (B3B0903-BS1)

Prepared: 02/09/2023 Analyzed: 02/09/2023

1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130			
Benzene	0.0899	0.00200	"	0.100		89.9	70-130			
Ethylbenzene	0.0869	0.00200	"	0.100		86.9	70-130			
Naphthalene	0.0885	0.00380	"	0.100		88.5	70-130			
Toluene	0.0902	0.00200	"	0.100		90.2	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
m,p-Xylene	0.173	0.00400	"	0.200		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0903 - EPA 5030 (soil)

Matrix Spike (B3B0903-MS1)	Source: Y302147-01			Prepared: 02/09/2023 Analyzed: 02/09/2023						
1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100	0.00138	91.4	70-130			
1,3,5-Trimethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Benzene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
Ethylbenzene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
Naphthalene	0.0961	0.00380	"	0.100	ND	96.1	70-130			
Toluene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
o-Xylene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	70-130			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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 B3B0903 - EPA 5030 (soil)

Matrix Spike Dup (B3B0903-MSD1)	Source: Y302147-01			Prepared: 02/09/2023 Analyzed: 02/09/2023						
1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100	0.00138	97.1	70-130	5.90	20	
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	7.20	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	3.94	20	
Ethylbenzene	0.0968	0.00200	"	0.100	ND	96.8	70-130	1.90	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	7.34	20	
Toluene	0.0950	0.00200	"	0.100	ND	95.0	70-130	2.41	20	
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130	2.43	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.6	70-130	1.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

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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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 B3B1002 - DTPA Sorbitol Preparation

Blank (B3B1002-BLK1)

Prepared: 02/10/2023 Analyzed: 02/13/2023

Boron ND 0.100 mg/L

Duplicate (B3B1002-DUP1)

Source: Y302174-01

Prepared: 02/10/2023 Analyzed: 02/13/2023

Boron 0.128 0.100 mg/L 0.115 10.7 50

Batch B3B1004 - Saturated Paste Metals

Blank (B3B1004-BLK1)

Prepared: 02/10/2023 Analyzed: 02/13/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3B1004-DUP1)

Source: Y302181-01

Prepared: 02/10/2023 Analyzed: 02/13/2023

Calcium PPM 578 10.0 mg/L 575 0.412 50

SAR 0.00 SAR 0.374 200 200

Magnesium PPM 61.8 10.0 mg/L 59.1 4.49 50

Sodium PPM 34.4 10.0 " 35.2 2.35 50

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Andy Sagen
 Project Number: [none]
 Project: Cholla - Santa Fe Trail 1-34

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B1007 - Saturated Paste pH/EC										
Blank (B3B1007-BLK1)					Prepared: 02/10/2023 Analyzed: 02/11/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3B1007-DUP1)		Source: Y302181-01			Prepared: 02/10/2023 Analyzed: 02/11/2023					
pH	7.56		pH Units		7.81		3.25		25	
Specific Conductance (EC)	1.72	0.00500	mmhos/cm		1.70		0.841		25	

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Andy Sagen
Project Number: [none]
Project: Cholla - Santa Fe Trail 1-34

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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