

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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: 11.8 °C ☐ °C ☐ °C (Describe) _____ °C

Thermometer ID: JDOY

| 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)

6/2/09/2023
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 |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

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 | |
|-------|-------|--------|------|---|---------|-----|------------|------------|--|

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 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

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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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 |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

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 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|-------|--|-----|---|---------|-----|------------|------------|
| SAR | 0.374 | | SAR | 1 | B3B1004 | KAP | 02/10/2023 | 02/13/2023 |
|-----|-------|--|-----|---|---------|-----|------------|------------|

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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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 |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

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 |
|-------|-------|-------|------|---|---------|-----|------------|------------|

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 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--|-----|---|---------|-----|------------|------------|
| SAR | 2.58 | | SAR | 1 | B3B1004 | KAP | 02/10/2023 | 02/13/2023 |
|-----|------|--|-----|---|---------|-----|------------|------------|

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 | | | |

Origins Laboratory, Inc.



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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

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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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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

| 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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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 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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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| 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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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| 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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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| 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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6855 West 119th Avenue
Broomfield CO 80020

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

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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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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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Broomfield CO 80020

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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