



January 09, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - [none]

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. January 04, 2019. This project is associated with Origins project number Y901057-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|-----------------------|------------------|
| BH01R - 010419 | Y901057-01 | Water | January 4, 2019 14:14 | 01/04/2019 16:40 |
| BH02R - 010419 | Y901057-02 | Water | January 4, 2019 13:22 | 01/04/2019 16:40 |
| BH04 - 010419 | Y901057-03 | Water | January 4, 2019 13:58 | 01/04/2019 16:40 |
| BH08 - 010419 | Y901057-04 | Water | January 4, 2019 13:32 | 01/04/2019 16:40 |
| BH09 - 010419 | Y901057-05 | Water | January 4, 2019 14:05 | 01/04/2019 16:40 |
| BH10 - 010419 | Y901057-06 | Water | January 4, 2019 13:34 | 01/04/2019 16:40 |
| BH11 - 010419 | Y901057-07 | Water | January 4, 2019 14:16 | 01/04/2019 16:40 |
| BH12 - 010419 | Y901057-08 | Water | January 4, 2019 13:42 | 01/04/2019 16:40 |
| BH13 - 010419 | Y901057-09 | Water | January 4, 2019 13:45 | 01/04/2019 16:40 |
| BH14 - 010419 | Y901057-10 | Water | January 4, 2019 13:23 | 01/04/2019 16:40 |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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page 1 of 1

ORIGINS
LABORATORY, INC

Client: APC / Tasman
Address: 6899 N Pecos St
Denver CO 80221
Telephone Number: 815-979-8348

Project Manager/Send Report To: Bob Cornez
Email Address: rcornez@tasman-geo.com
Project Name/Number: Tuttle L17-6/89156107
Samples Collected By: Alison Dahl, Brian Gabel

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

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | | Matrix | | | Analysis/Method | | | | Sample Instructions |
|--|--------------|--------------|-----------------|--|-------------|------------------|---|-------------|--------|-------------|-------|-----------------|--|--|--|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa # | Other | BTEX | | | | |
| BH01R-010419 | 1/4/19 | 1414 | 3 | X | | | | X | | | | X | | | | 1 |
| BH02R-010419 | | 1322 | | | | | | | | | | | | | | 2 |
| BH04-010419 | | 1358 | | | | | | | | | | | | | | 3 |
| BH08-010419 | | 1332 | | | | | | | | | | | | | | 4 |
| BH09-010419 | | 1405 | | | | | | | | | | | | | | 5 |
| BH10-010419 | | 1334 | | | | | | | | | | | | | | 6 |
| BH11-010419 | | 1416 | | | | | | | | | | | | | | 7 |
| BH12-010419 | | 1342 | | | | | | | | | | | | | | 8 |
| BH13-010419 | | 1345 | | | | | | | | | | | | | | 9 |
| BH14-010419 | | 1323 | | | | | | | | | | | | | | 10 |
| Relinquished By:  | Date: 1/4/19 | Time: 16:40 | | Received By:  | Time: 14:19 | Date: 1/4/19 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard | | | | | | | | | |
| Relinquished By: | Date: | Time: | | Received By: | Time: | Date: | | | | | | | | | | |

Date Results Needed:

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y901057

Client: Tasman

Client Project ID: KMG - Tuttle L 17-6

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 1/7/19

Airbill #: DIA

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

Cooler Number/Temperature: 1 1.8 °C / °C / °C / °C

Thermometer ID: T003

| 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"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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) WD

Date/Time Reviewed 1/8/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH01R - 010419

1/4/2019 2:14:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-01 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|---|
| Benzene | 71.6 | 4.00 | ug/L | 4 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | |
| Toluene | ND | 4.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | 4.28 | 4.00 | " | " | " | JTD | " | " | |
| Xylenes, total | 14.8 | 4.00 | " | " | " | JTD | " | " | |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 97.5 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

BH02R - 010419

1/4/2019 1:22:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.

Y901057-02 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.4 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH04 - 010419

1/4/2019 1:58:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-03 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 1760 | 50.0 | ug/L | 50 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | |
| Toluene | ND | 50.0 | " | " | " | JTD | " | " | U |
| Ethylbenzene | 87.0 | 50.0 | " | " | " | JTD | " | " | |
| Xylenes, total | 718 | 50.0 | " | " | " | JTD | " | " | |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.3 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 100 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH08 - 010419

1/4/2019 1:32:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-04 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 99.2 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH09 - 010419

1/4/2019 2:05:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-05 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 526 | 20.0 | ug/L | 20 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | |
| Toluene | ND | 20.0 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 20.0 | " | " | " | JTD | " | " | U |
| Xylenes, total | 70.8 | 20.0 | " | " | " | JTD | " | " | |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 99.2 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 100 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH10 - 010419

1/4/2019 1:34:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-06 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 99.6 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 99.8 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.9 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH11 - 010419

1/4/2019 2:16:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-07 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|------|-----|------|-----|---------|-----|------------|------------|---|
| Benzene | 8270 | 100 | ug/L | 100 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | |
| Toluene | ND | 100 | " | " | " | JTD | " | " | U |
| Ethylbenzene | 120 | 100 | " | " | " | JTD | " | " | |
| Xylenes, total | 3590 | 100 | " | " | " | JTD | " | " | |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 99.9 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH12 - 010419

1/4/2019 1:42:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-08 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 99.1 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

BH13 - 010419

1/4/2019 1:45:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-09 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.6 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH14 - 010419

1/4/2019 1:23:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y901057-10 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9A0805 | JTD | 01/08/2019 | 01/08/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 99.9 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.2 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9A0805 - EPA 5030B (Water) | | | | | | | | | | |
| Blank (B9A0805-BLK1) | | | | | Prepared: 01/08/2019 Analyzed: 01/08/2019 | | | | | |
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 97.0 | 84-121 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.7 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

Blank (B9A0805-BLK2)

Prepared: 01/08/2019 Analyzed: 01/08/2019

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | 98.2 | | 84-121 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | 98.8 | | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | 101 | | 84-114 | | | |

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

LCS (B9A0805-BS1)

Prepared: 01/08/2019 Analyzed: 01/08/2019

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|--|--|--|
| Benzene | 42.6 | 1.00 | ug/L | 50.0 | | 85.2 | 73.3-129 | | | |
| Toluene | 43.5 | 1.00 | " | 50.0 | | 87.0 | 76.2-123 | | | |
| Ethylbenzene | 42.9 | 1.00 | " | 50.0 | | 85.9 | 73.6-130 | | | |
| m,p-Xylene | 84.8 | 2.00 | " | 100 | | 84.8 | 76.1-126 | | | |
| o-Xylene | 41.0 | 1.00 | " | 50.0 | | 82.0 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 97.0 | 84-121 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.3 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

LCS (B9A0805-BS2)

Prepared: 01/08/2019 Analyzed: 01/08/2019

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|--|--|--|
| Benzene | 46.3 | 1.00 | ug/L | 50.0 | | 92.5 | 73.3-129 | | | |
| Toluene | 46.4 | 1.00 | " | 50.0 | | 92.8 | 76.2-123 | | | |
| Ethylbenzene | 45.2 | 1.00 | " | 50.0 | | 90.4 | 73.6-130 | | | |
| m,p-Xylene | 90.4 | 2.00 | " | 100 | | 90.4 | 76.1-126 | | | |
| o-Xylene | 43.9 | 1.00 | " | 50.0 | | 87.8 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 97.8 | 84-121 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

| Matrix Spike (B9A0805-MS1) | | Source: Y901057-08 | | | Prepared: 01/08/2019 Analyzed: 01/08/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 48.2 | 1.00 | ug/L | 50.0 | ND | 96.4 | 74-130 | | | |
| Toluene | 47.8 | 1.00 | " | 50.0 | ND | 95.7 | 73-131 | | | |
| Ethylbenzene | 47.2 | 1.00 | " | 50.0 | ND | 94.5 | 76-132 | | | |
| m,p-Xylene | 94.1 | 2.00 | " | 100 | 0.260 | 93.9 | 69-139 | | | |
| o-Xylene | 45.7 | 1.00 | " | 50.0 | ND | 91.5 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 96.7 | 84-121 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.9 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.0 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

| Matrix Spike (B9A0805-MS2) | | Source: Y901057-09 | | | Prepared: 01/08/2019 Analyzed: 01/08/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 51.0 | 1.00 | ug/L | 50.0 | ND | 102 | 74-130 | | | |
| Toluene | 52.0 | 1.00 | " | 50.0 | ND | 104 | 73-131 | | | |
| Ethylbenzene | 51.2 | 1.00 | " | 50.0 | ND | 102 | 76-132 | | | |
| m,p-Xylene | 99.4 | 2.00 | " | 100 | 0.220 | 99.2 | 69-139 | | | |
| o-Xylene | 48.7 | 1.00 | " | 50.0 | ND | 97.4 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | " | 62.5 | | 94.6 | 84-121 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.2 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

| Matrix Spike Dup (B9A0805-MSD1) | | Source: Y901057-08 | | | Prepared: 01/08/2019 Analyzed: 01/08/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 45.9 | 1.00 | ug/L | 50.0 | ND | 91.8 | 74-130 | 4.91 | 20 | |
| Toluene | 46.1 | 1.00 | " | 50.0 | ND | 92.2 | 73-131 | 3.68 | 20 | |
| Ethylbenzene | 45.2 | 1.00 | " | 50.0 | ND | 90.4 | 76-132 | 4.37 | 20 | |
| m,p-Xylene | 89.5 | 2.00 | " | 100 | 0.260 | 89.2 | 69-139 | 5.05 | 20 | |
| o-Xylene | 43.4 | 1.00 | " | 50.0 | ND | 86.7 | 74-131 | 5.34 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 96.3 | 84-121 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.8 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 84-114 | | | |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A0805 - EPA 5030B (Water)

| Matrix Spike Dup (B9A0805-MSD2) | | Source: Y901057-09 | | | Prepared: 01/08/2019 Analyzed: 01/08/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 44.5 | 1.00 | ug/L | 50.0 | ND | 89.0 | 74-130 | 13.5 | 20 | |
| Toluene | 44.6 | 1.00 | " | 50.0 | ND | 89.3 | 73-131 | 15.2 | 20 | |
| Ethylbenzene | 44.1 | 1.00 | " | 50.0 | ND | 88.2 | 76-132 | 14.8 | 20 | |
| m,p-Xylene | 86.2 | 2.00 | " | 100 | 0.220 | 85.9 | 69-139 | 14.2 | 20 | |
| o-Xylene | 42.2 | 1.00 | " | 50.0 | ND | 84.4 | 74-131 | 14.3 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 95.6 | 84-121 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.5 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 84-114 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



June 25, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - [none]

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. June 18, 2019. This project is associated with Origins project number Y906322-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|---------------------|------------------|
| BH01R2 - 061819 | Y906322-01 | Water | June 18, 2019 14:27 | 06/18/2019 17:10 |
| BH02R - 061819 | Y906322-02 | Water | June 18, 2019 10:32 | 06/18/2019 17:10 |
| BH04R - 061819 | Y906322-03 | Water | June 18, 2019 14:40 | 06/18/2019 17:10 |
| BH08R - 061819 | Y906322-04 | Water | June 18, 2019 14:34 | 06/18/2019 17:10 |
| BH09R - 061819 | Y906322-05 | Water | June 18, 2019 14:31 | 06/18/2019 17:10 |
| BH10 - 061819 | Y906322-06 | Water | June 18, 2019 10:50 | 06/18/2019 17:10 |
| BH11R - 061819 | Y906322-07 | Water | June 18, 2019 14:45 | 06/18/2019 17:10 |
| BH12 - 061819 | Y906322-08 | Water | June 18, 2019 10:55 | 06/18/2019 17:10 |
| BH13 - 061819 | Y906322-09 | Water | June 18, 2019 11:07 | 06/18/2019 17:10 |
| BH14 - 061819 | Y906322-10 | Water | June 18, 2019 10:37 | 06/18/2019 17:10 |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

www.originslaboratory.com

page 1 of 1

ORIGINS LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: Bob Cornez

Address: 6899 N Pecos St Email Address: rcornez@tasman-geo.com

Denver CO 80221 Project Name/Number: Tuttle L 17-6/8956497

Telephone Number: 303-487-1228 Samples Collected By: Brian G. Morgan

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | Matrix | Analysis/Method | Sample Instructions |
|------------------------------|---------------|--------------|-----------------|--------------------------|----------------|-----------------|---|
| BH01R2-061819 | 6/18/19 | 1427 | 3 | X | Soil | BTEX | 1 |
| BH02R-061819 | 6/18/19 | 1032 | 1 | | Groundwater | | 2 |
| BH04R-061819 | 6/18/19 | 1440 | 1 | | | | 3 |
| BH08R-061819 | 6/18/19 | 1434 | 1 | | | | 4 |
| BH09R-061819 | 6/18/19 | 1431 | 1 | | | | 5 |
| BH10-061819 | 6/18/19 | 1050 | 1 | | | | 6 |
| BH11R-061819 | 6/18/19 | 1445 | 1 | | | | 7 |
| BH12-061819 | 6/18/19 | 1055 | 1 | | | | 8 |
| BH13-061819 | 6/18/19 | 1107 | 1 | | | | 9 |
| BH14-061819 | 6/18/19 | 1037 | 1 | | | | 10 |
| Relinquished By: [Signature] | Date: 6/18/19 | Time: 1600 | | Received By: [Signature] | Date: 06/18/19 | Time: 1710 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard |
| Relinquished By: | Date: | Time: | | Received By: | Date: | Time: | |

Origins Laboratory, Inc.

Jefe Pellegrini

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y906322

Client: Tasman

Client Project ID: Tuttle L 17-6

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 6 / 19 / 2019

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 4.9 °C / °C / °C / °C

Thermometer ID: T003

| 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"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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"/> | <input type="checkbox"/> | <input 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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) CP

Date/Time Reviewed 6/20/19

Origins Laboratory, Inc.

Jefe Pellegrini

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH01R2 - 061819
6/18/2019 2:27:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-01 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 420 | 10.0 | ug/L | 10 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | |
| Toluene | ND | 10.0 | " | " | " | JTD | " | " | U |
| Ethylbenzene | 75.6 | 10.0 | " | " | " | JTD | " | " | |
| Xylenes, total | 202 | 10.0 | " | " | " | JTD | " | " | |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.7 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.1 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH02R - 061819

6/18/2019 10:32:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-02 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.4 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.3 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH04R - 061819

6/18/2019 2:40:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-03 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 55.5 | 50.0 | ug/L | 50 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | |
| Toluene | ND | 50.0 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 50.0 | " | " | " | JTD | " | " | U |
| Xylenes, total | 57.5 | 50.0 | " | " | " | JTD | " | " | |

| | | | |
|----------------------------------|--------|--------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 98.8 % | 70-130 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | |
| Surrogate: 4-Bromofluorobenzene | 98.7 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH08R - 061819

6/18/2019 2:34:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-04 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.7 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH09R - 061819

6/18/2019 2:31:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-05 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|-----|------|------|----|---------|-----|------------|------------|---|
| Benzene | 680 | 20.0 | ug/L | 20 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | |
| Toluene | ND | 20.0 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 20.0 | " | " | " | JTD | " | " | U |
| Xylenes, total | 116 | 20.0 | " | " | " | JTD | " | " | |

| | | | |
|----------------------------------|--------|--------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 98.1 % | 70-130 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | |
| Surrogate: 4-Bromofluorobenzene | 97.9 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH10 - 061819

6/18/2019 10:50:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-06 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.1 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 102 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.8 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH11R - 061819

6/18/2019 2:45:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-07 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9F2002 | KDK | 06/20/2019 | 06/24/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|------------|
| Surrogate: 1,2-Dichloroethane-d4 | 98.8 % | 70-130 | | | " | " | 06/23/2019 |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH12 - 061819

6/18/2019 10:55:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-08 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/23/2019 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.9 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.4 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH13 - 061819

6/18/2019 11:07:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-09 (Water)

BTEX by EPA 8260D

| | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|
| Benzene | 8.08 | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/21/2019 |
| Toluene | 4.93 | 1.00 | " | " | " | JTD | " | " |
| Ethylbenzene | 4.89 | 1.00 | " | " | " | JTD | " | " |
| Xylenes, total | 14.9 | 1.00 | " | " | " | JTD | " | " |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.7 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH14 - 061819

6/18/2019 10:37:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y906322-10 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|---|
| Benzene | 2.35 | 1.00 | ug/L | 1 | B9F2002 | JTD | 06/20/2019 | 06/21/2019 | |
| Toluene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 99.6 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.7 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9F2002 - EPA 5030B (Water) | | | | | | | | | | |
| Blank (B9F2002-BLK1) | | | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | |
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 97.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 66 | | " | 62.5 | | 105 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 98.0 | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9F2002 - EPA 5030B (Water)

LCS (B9F2002-BS1)

Prepared: 06/20/2019 Analyzed: 06/21/2019

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Benzene | 48.0 | 1.00 | ug/L | 50.0 | | 96.1 | 70-130 | | | |
| Toluene | 54.6 | 1.00 | " | 50.0 | | 109 | 70-130 | | | |
| Ethylbenzene | 52.8 | 1.00 | " | 50.0 | | 106 | 70-130 | | | |
| m,p-Xylene | 105 | 2.00 | " | 100 | | 105 | 70-130 | | | |
| o-Xylene | 50.9 | 1.00 | " | 50.0 | | 102 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 96.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9F2002 - EPA 5030B (Water)

| Matrix Spike (B9F2002-MS1) | | Source: Y906324-03 | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 45.2 | 1.00 | ug/L | 50.0 | ND | 90.4 | 70-130 | | | |
| Toluene | 44.5 | 1.00 | " | 50.0 | ND | 89.0 | 70-130 | | | |
| Ethylbenzene | 43.4 | 1.00 | " | 50.0 | ND | 86.8 | 70-130 | | | |
| m,p-Xylene | 87.1 | 2.00 | " | 100 | ND | 87.1 | 70-130 | | | |
| o-Xylene | 45.0 | 1.00 | " | 50.0 | ND | 90.0 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 96.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9F2002 - EPA 5030B (Water)

| Matrix Spike Dup (B9F2002-MSD1) | | Source: Y906324-03 | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 38.8 | 1.00 | ug/L | 50.0 | ND | 77.5 | 70-130 | 15.3 | 20 | |
| Toluene | 38.2 | 1.00 | " | 50.0 | ND | 76.5 | 70-130 | 15.2 | 20 | |
| Ethylbenzene | 36.0 | 1.00 | " | 50.0 | ND | 72.0 | 70-130 | 18.7 | 20 | |
| m,p-Xylene | 72.9 | 2.00 | " | 100 | ND | 72.9 | 70-130 | 17.8 | 20 | |
| o-Xylene | 39.4 | 1.00 | " | 50.0 | ND | 78.9 | 70-130 | 13.2 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 62 | | " | 62.5 | | 98.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 98.8 | 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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



August 13, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - [none]

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. August 08, 2019. This project is associated with Origins project number Y908127-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|----------------------|------------------|
| BH13 - 080819 | Y908127-01 | Water | August 8, 2019 13:50 | 08/08/2019 16:35 |

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y908127

page 1 of 1

Client:

APC/TASMAN

Address:

6855 W 119th Ave

Telephone Number:

970-927-0303

Email Address:

rcornez@tasman-geo.com

Project Manager:

Robert Corneiz

Project Name:

Tuttle L 17-6

Project Number:

M Rianda

Samples Collected By:

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions |
|---------------------------------|----------------|--------------|---------------------------------|--------------|------------|--|-------|-------------|------|-------------|----------|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa # | | |
| BH13-080819 | 08/08/19 | 13:50 | 3 | X | | | | X | | | X BTEX | 1 |
| | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | 10 |
| Relinquished By: <i>rcornez</i> | Date: 08/08/19 | Time: 1635 | Received By: <i>[Signature]</i> | Date: 8/8/19 | Time: 1635 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/> | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | |

Date Results Needed

7/4

Origins Laboratory, Inc.

Jeff Pellgrini

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y908127

Client: Tasman
Client Project ID: Tuttle L 17-6

Checklist Completed by: JD KDK
Date/time completed: 08/09/2019

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
Cooler Number/Temperature: 1 / 7.8 °C / °C / °C / °C
Thermometer ID: T003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | <u>Sameday</u> |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <u>KDK</u> |
| 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⁾ ? | | | | |
| 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.

ap
Reviewed by (Project Manager)

8/12/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH13 - 080819

8/8/2019 1:50:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y908127-01 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|---|
| Benzene | 1.64 | 1.00 | ug/L | 1 | B9H1202 | KDK | 08/12/2019 | 08/12/2019 | |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 88.4 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 119 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9H1202 - EPA 5030B (Water)

Blank (B9H1202-BLK1)

Prepared: 08/12/2019 Analyzed: 08/12/2019

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|--|------|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 56 | | " | 62.5 | | 89.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 65 | | " | 62.5 | | 104 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 75 | | " | 62.5 | | 120 | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9H1202 - EPA 5030B (Water)

LCS (B9H1202-BS1)

Prepared: 08/12/2019 Analyzed: 08/12/2019

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Benzene | 52.0 | 1.00 | ug/L | 50.0 | | 104 | 70-130 | | | |
| Toluene | 55.0 | 1.00 | " | 50.0 | | 110 | 70-130 | | | |
| Ethylbenzene | 51.8 | 1.00 | " | 50.0 | | 104 | 70-130 | | | |
| m,p-Xylene | 103 | 2.00 | " | 100 | | 103 | 70-130 | | | |
| o-Xylene | 51.8 | 1.00 | " | 50.0 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54 | | " | 62.5 | | 87.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 73 | | " | 62.5 | | 118 | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9H1202 - EPA 5030B (Water)

| Matrix Spike (B9H1202-MS1) | | Source: Y908128-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|-------|
| Benzene | 329 | 1.00 | ug/L | 50.0 | 271 | 118 | 70-130 | | | QM-07 |
| Toluene | 52.2 | 1.00 | " | 50.0 | 0.140 | 104 | 70-130 | | | |
| Ethylbenzene | 53.3 | 1.00 | " | 50.0 | 0.200 | 106 | 70-130 | | | |
| m,p-Xylene | 103 | 2.00 | " | 100 | 0.420 | 103 | 70-130 | | | |
| o-Xylene | 52.8 | 1.00 | " | 50.0 | 0.120 | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 55 | | " | 62.5 | | 87.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 72 | | " | 62.5 | | 115 | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9H1202 - EPA 5030B (Water)

| Matrix Spike Dup (B9H1202-MSD1) | | Source: Y908128-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|-------|----|--|
| Benzene | 331 | 1.00 | ug/L | 50.0 | 271 | 120 | 70-130 | 0.439 | 20 | |
| Toluene | 56.0 | 1.00 | " | 50.0 | 0.140 | 112 | 70-130 | 7.10 | 20 | |
| Ethylbenzene | 57.6 | 1.00 | " | 50.0 | 0.200 | 115 | 70-130 | 7.65 | 20 | |
| m,p-Xylene | 112 | 2.00 | " | 100 | 0.420 | 112 | 70-130 | 8.17 | 20 | |
| o-Xylene | 56.8 | 1.00 | " | 50.0 | 0.120 | 113 | 70-130 | 7.34 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 55 | | " | 62.5 | | 87.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 72 | | " | 62.5 | | 116 | 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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

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.

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.



September 12, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - [none]

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. September 09, 2019. This project is associated with Origins project number Y909112-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|-------------------------|------------------|
| BH01R2 - 090919 | Y909112-01 | Water | September 9, 2019 13:39 | 09/09/2019 15:15 |
| BH02R - 090919 | Y909112-02 | Water | September 9, 2019 13:18 | 09/09/2019 15:15 |
| BH04R - 090919 | Y909112-03 | Water | September 9, 2019 13:17 | 09/09/2019 15:15 |
| BH08R - 090919 | Y909112-04 | Water | September 9, 2019 13:30 | 09/09/2019 15:15 |
| BH09R - 090919 | Y909112-05 | Water | September 9, 2019 13:53 | 09/09/2019 15:15 |
| BH10 - 090919 | Y909112-06 | Water | September 9, 2019 13:07 | 09/09/2019 15:15 |
| BH11R - 090919 | Y909112-07 | Water | September 9, 2019 13:26 | 09/09/2019 15:15 |
| BH12 - 090919 | Y909112-08 | Water | September 9, 2019 13:08 | 09/09/2019 15:15 |
| BH13- 090919 | Y909112-09 | Water | September 9, 2019 13:47 | 09/09/2019 15:15 |
| BH14 - 090919 | Y909112-10 | Water | September 9, 2019 13:42 | 09/09/2019 15:15 |

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

page 1 of 1

1909112

ORIGINS LABORATORY, INC

Client: Tasman / APC
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-467-1228
Email Address: TCM20@tuttle.com

Project Manager: Bob Cornez
Project Name: Tuttle L 17-6
Project Number: 89150407
Samples Collected By: Jesse M. Borden V

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | |
|------------------------|----------------|--------------|-----------------|--------------------------|-----|------------------|-------|--------------|------------|---|----------|---------------------|----|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa # | | | |
| BH01R2-010419 | 01/04/19 | 1339 | 3 | | X | | | | | | | | 1 |
| BH02R-010419 | 01/04/19 | 1318 | 3 | | X | | | | | | | | 2 |
| BH04R-090919 | 09/09/19 | 1317 | 3 | | X | | | | | | | | 3 |
| BH06R-010419 | 01/04/19 | 1330 | 3 | | X | | | | | | | | 4 |
| BH09R-010419 | 01/04/19 | 1353 | 3 | | X | | | | | | | | 5 |
| BH10-010419 | 01/04/19 | 1307 | 3 | | X | | | | | | | | 6 |
| BH11R-010419 | 01/04/19 | 1326 | 3 | | X | | | | | | | | 7 |
| BH12-010419 | 01/04/19 | 1308 | 3 | | X | | | | | | | | 8 |
| BH13-01-04-19 | 01/04/19 | 1347 | 3 | | X | | | | | | | | 9 |
| BH14-01-04-19 | 01/04/19 | 1342 | 3 | | X | | | | | | | | 10 |
| Relinquished By: f. pz | Date: 01/04/19 | Time: 1615 | | Received By: [Signature] | | | | Date: 9/9/19 | Time: 1515 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> | | | |
| Relinquished By: | Date: | Time: | | Received By: | | | | Date: | Time: | | | | |

Temp Received: \$1

Date Results Needed

Origins Laboratory, Inc.

Jesse Pellegrini

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH01R2 - 090919

9/9/2019 1:39:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-01 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 137 | 10.0 | ug/L | 10 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | |
| Toluene | ND | 10.0 | " | " | " | KDK | " | " | U |
| Ethylbenzene | 31.1 | 10.0 | " | " | " | KDK | " | " | |
| Xylenes, total | 76.9 | 10.0 | " | " | " | KDK | " | " | |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 99.4 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.3 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH02R - 090919

9/9/2019 1:18:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-02 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 99.3 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.9 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH04R - 090919

9/9/2019 1:17:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-03 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------------|------|------|----|---------|-----|------------|------------|---|
| Benzene | 485 | 50.0 | ug/L | 50 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | |
| Toluene | ND | 50.0 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 50.0 | " | " | " | KDK | " | " | U |
| Xylenes, total | 467 | 50.0 | " | " | " | KDK | " | " | |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.6 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH08R - 090919

9/9/2019 1:30:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-04 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 99.6 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH09R - 090919

9/9/2019 1:53:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-05 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|-----|------|------|----|---------|-----|------------|------------|---|
| Benzene | 922 | 50.0 | ug/L | 50 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | |
| Toluene | ND | 50.0 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 50.0 | " | " | " | KDK | " | " | U |
| Xylenes, total | 163 | 50.0 | " | " | " | KDK | " | " | |

| | | | | | | | |
|----------------------------------|-------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 100 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH10 - 090919

9/9/2019 1:07:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-06 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 99.9 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 100 % | 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH11R - 090919

9/9/2019 1:26:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-07 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|---|
| Benzene | 1.00 | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.9 % | 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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

BH12 - 090919

9/9/2019 1:08:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.

Y909112-08 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 99.8 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.4 % | 70-130 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH13- 090919

9/9/2019 1:47:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-09 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | U |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 100 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.3 % | 70-130 | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

BH14 - 090919

9/9/2019 1:42:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y909112-10 (Water)

BTEX by EPA 8260D

| | | | | | | | | | |
|----------------|------|------|------|---|---------|-----|------------|------------|---|
| Benzene | 1.00 | 1.00 | ug/L | 1 | B9I1005 | KDK | 09/10/2019 | 09/11/2019 | |
| Toluene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | KDK | " | " | U |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 98.6 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.5 % | 70-130 | | | " | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9I1005 - EPA 5030B (Water)

Blank (B9I1005-BLK1)

Prepared: 09/10/2019 Analyzed: 09/10/2019

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | " | 62.5 | 102 | | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | 98.8 | | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | 100 | | 70-130 | | | |

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9I1005 - EPA 5030B (Water)

LCS (B9I1005-BS1)

Prepared: 09/10/2019 Analyzed: 09/10/2019

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Benzene | 47.1 | 1.00 | ug/L | 50.0 | | 94.1 | 70-130 | | | |
| Toluene | 48.4 | 1.00 | " | 50.0 | | 96.8 | 70-130 | | | |
| Ethylbenzene | 48.8 | 1.00 | " | 50.0 | | 97.5 | 70-130 | | | |
| m,p-Xylene | 96.0 | 2.00 | " | 100 | | 96.0 | 70-130 | | | |
| o-Xylene | 49.0 | 1.00 | " | 50.0 | | 97.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 98.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.8 | 70-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9I1005 - EPA 5030B (Water)

| Matrix Spike (B9I1005-MS1) | | Source: Y909109-01 | | | Prepared: 09/10/2019 Analyzed: 09/10/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 49.1 | 1.00 | ug/L | 50.0 | ND | 98.2 | 70-130 | | | |
| Toluene | 49.8 | 1.00 | " | 50.0 | ND | 99.7 | 70-130 | | | |
| Ethylbenzene | 51.4 | 1.00 | " | 50.0 | 0.100 | 103 | 70-130 | | | |
| m,p-Xylene | 102 | 2.00 | " | 100 | 0.310 | 102 | 70-130 | | | |
| o-Xylene | 50.2 | 1.00 | " | 50.0 | 0.110 | 100 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.5 | 70-130 | | | |

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

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 B9I1005 - EPA 5030B (Water)

| Matrix Spike Dup (B9I1005-MSD1) | | Source: Y909109-01 | | | Prepared: 09/10/2019 Analyzed: 09/10/2019 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|-------|----|--|
| Benzene | 50.3 | 1.00 | ug/L | 50.0 | ND | 101 | 70-130 | 2.47 | 20 | |
| Toluene | 50.2 | 1.00 | " | 50.0 | ND | 100 | 70-130 | 0.640 | 20 | |
| Ethylbenzene | 51.1 | 1.00 | " | 50.0 | 0.100 | 102 | 70-130 | 0.741 | 20 | |
| m,p-Xylene | 103 | 2.00 | " | 100 | 0.310 | 102 | 70-130 | 0.479 | 20 | |
| o-Xylene | 51.3 | 1.00 | " | 50.0 | 0.110 | 102 | 70-130 | 1.99 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | " | 62.5 | | 98.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 96.8 | 70-130 | | | |

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Tuttle L 17-6

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President