

September 11, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Guy Jones GU 1**

**Project Number - [none]**

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 08, 2017. This project is associated with Origins project number Y709111-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled            | Date Received    |
|-----------|---------------|--------|-------------------------|------------------|
| B01@7'    | Y709111-01    | Soil   | September 8, 2017 13:30 | 09/08/2017 16:55 |
| N01@6'    | Y709111-02    | Soil   | September 8, 2017 13:32 | 09/08/2017 16:55 |
| S01@6'    | Y709111-03    | Soil   | September 8, 2017 13:34 | 09/08/2017 16:55 |
| E01@6'    | Y709111-04    | Soil   | September 8, 2017 13:36 | 09/08/2017 16:55 |
| W01@6'    | Y709111-05    | Soil   | September 8, 2017 13:38 | 09/08/2017 16:55 |

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.*

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

YASMI

page | of |

Client: ARC

Project Manager: Rob Corneiz

Address: \_\_\_\_\_

Project Name: Guy Jones GV1

Telephone Number: \_\_\_\_\_

Project Number: \_\_\_\_\_

Samples Collected By: Mark Chapin

Email Address: rcorneiz@fasman-geo.com

| Sample ID Description               | Date Sampled         | Time Sampled      | # of Containers                 | Preservative         |                   |  |       | Matrix      |      |                      | Analysis |      |      |       | Sample Instructions |                |
|-------------------------------------|----------------------|-------------------|---------------------------------|----------------------|-------------------|--|-------|-------------|------|----------------------|----------|------|------|-------|---------------------|----------------|
|                                     |                      |                   |                                 | Unpreserved          | HCl               | HNO <sub>3</sub>   | Other | Groundwater | Soil | Air Summa Canister # | Other    | 5200 | 8015 | EA PT |                     | 5200 (ON HOLD) |
| B01e7'                              | 9/18/17              | 1330              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 1                   |                |
| N01e6'                              |                      | 1332              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 2                   |                |
| S01e6'                              |                      | 1334              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 3                   |                |
| E01e6'                              |                      | 1336              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 4                   |                |
| W01e6'                              |                      | 1338              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 5                   |                |
| B01e6"                              | ↓                    | 1340              | 2                               |                      |                   |  |       |             | X    |                      |          | X    | X    | X     | 6                   | ON HOLD        |
|                                     |                      |                   |                                 |                      |                   |  |       |             |      |                      |          |      |      |       | 7                   |                |
|                                     |                      |                   |                                 |                      |                   |  |       |             |      |                      |          |      |      |       | 8                   |                |
|                                     |                      |                   |                                 |                      |                   |  |       |             |      |                      |          |      |      |       | 9                   |                |
|                                     |                      |                   |                                 |                      |                   |  |       |             |      |                      |          |      |      |       | 10                  |                |
| Relinquished By: <u>Mark Chapin</u> | Date: <u>9/18/17</u> | Time: <u>1655</u> | Received By: <u>[Signature]</u> | Date: <u>9/18/17</u> | Time: <u>1655</u> | Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard |       |             |      |                      |          |      |      |       |                     |                |
| Relinquished By: _____              | Date: _____          | Time: _____       | Received By: _____              | Date: _____          | Time: _____       |  |       |             |      |                      |          |      |      |       |                     |                |

Temp Received-

4.3 Date Results Needed

Origins Laboratory, Inc.

Jose Pellegrini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4729111

Client: Tasman

Client Project ID: KMG - Guy Jones GU 1

Checklist Completed by: Don W

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

Date/time completed: 9-8-12 17:5

Airbill #: N/A

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

Cooler Number/Temperature: ☒ 17.3 °C ☐ \_\_\_\_\_ °C ☐ \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1603

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any)       |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   |                                     | <input checked="" type="checkbox"/> |                                     | <u>Sampled same day</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"/> |                                     |                         |
| 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 <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                         |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                         |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     | <u>pH</u>               |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                         |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                         |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                         |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                     | <input checked="" type="checkbox"/> |                                     |                         |
| Additional Comments (if any):   |                                     |                                     |                                     |                         |

<sup>(1)</sup>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) Don W

Date/Time Reviewed 9-8-12 17:5

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 - Guy Jones GU 1

B01@7'  
9/8/2017 1:30:00PM

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

**Origins Laboratory, Inc.**  
Y709111-01 (Soil)

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 37.8 | 25.0 | mg/kg | 1 | B7I0805 | 09/08/2017 | 09/11/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 81.8 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |      |       |       |    |         |   |            |   |
|-----------------------------|------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 266  | 5.00  | mg/kg | 25 | B7I0804 | " | 09/08/2017 |   |
| Benzene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 1.11 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | 13.7 | 0.050 | "     | "  | "       | " | "          |   |

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

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |   |            |  |
|----|------|--|----------|---|---------|---|------------|--|
| pH | 8.81 |  | pH Units | 1 | B7I0806 | " | 09/08/2017 |  |
|----|------|--|----------|---|---------|---|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |   |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.276 |  | mmhos/cm | " | B7I0807 | " | " |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

N01@6'  
9/8/2017 1:32:00PM

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

**Origins Laboratory, Inc.**  
**Y709111-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 200 | 25.0 | mg/kg | 1 | B7I0805 | 09/08/2017 | 09/11/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 89.1 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |   |            |   |
|-----------------------------|-------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 44.8  | 5.00  | mg/kg | 25 | B7I0804 | " | 09/08/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 0.058 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | ND    | 0.050 | "     | "  | "       | " | "          | U |

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |   |            |  |
|----|------|--|----------|---|---------|---|------------|--|
| pH | 8.75 |  | pH Units | 1 | B7I0806 | " | 09/08/2017 |  |
|----|------|--|----------|---|---------|---|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0558 |  | mmhos/cm | " | B7I0807 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S01@6'  
9/8/2017 1:34:00PM

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

**Origins Laboratory, Inc.**  
**Y709111-03 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 576 | 25.0 | mg/kg | 1 | B7I0805 | 09/08/2017 | 09/11/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 98.8 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |   |            |   |
|-----------------------------|-------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 242   | 5.00  | mg/kg | 25 | B7I0804 | " | 09/08/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 0.165 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | 4.14  | 0.050 | "     | "  | "       | " | "          |   |

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 94.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 130 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |   |            |  |
|----|------|--|----------|---|---------|---|------------|--|
| pH | 8.58 |  | pH Units | 1 | B7I0806 | " | 09/08/2017 |  |
|----|------|--|----------|---|---------|---|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0626 |  | mmhos/cm | " | B7I0807 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

E01@6'  
9/8/2017 1:36:00PM

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

**Origins Laboratory, Inc.**  
**Y709111-04 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 1520 | 25.0 | mg/kg | 1 | B7I0805 | 09/08/2017 | 09/11/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 88.1 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |      |       |       |     |         |   |            |         |
|-----------------------------|------|-------|-------|-----|---------|---|------------|---------|
| Gasoline Range Hydrocarbons | 2450 | 50.0  | mg/kg | 250 | B7I0804 | " | 09/08/2017 |         |
| Benzene                     | ND   | 0.050 | "     | 25  | "       | " | 09/08/2017 | U       |
| Toluene                     | ND   | 0.498 | "     | 250 | "       | " | 09/08/2017 | R-05, U |
| Ethylbenzene                | 7.16 | 0.498 | "     | "   | "       | " | "          |         |
| Xylenes, total              | 112  | 0.498 | "     | "   | "       | " | "          |         |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 106 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 89.4 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 127 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |   |            |  |
|----|------|--|----------|---|---------|---|------------|--|
| pH | 8.16 |  | pH Units | 1 | B7I0806 | " | 09/08/2017 |  |
|----|------|--|----------|---|---------|---|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |   |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.175 |  | mmhos/cm | " | B7I0807 | " | " |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

W01@6'  
9/8/2017 1:38:00PM

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

**Origins Laboratory, Inc.**  
**Y709111-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 939 | 25.0 | mg/kg | 1 | B7I0805 | 09/08/2017 | 09/11/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 86.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |     |         |   |            |   |
|-----------------------------|-------|-------|-------|-----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 593   | 50.0  | mg/kg | 250 | B7I0804 | " | 09/08/2017 |   |
| Benzene                     | ND    | 0.050 | "     | 25  | "       | " | 09/08/2017 | U |
| Toluene                     | ND    | 0.050 | "     | "   | "       | " | "          | U |
| Ethylbenzene                | 0.554 | 0.050 | "     | "   | "       | " | "          |   |
| Xylenes, total              | 12.1  | 0.050 | "     | "   | "       | " | "          |   |

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 82.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " 09/08/2017

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |   |            |  |
|----|------|--|----------|---|---------|---|------------|--|
| pH | 8.41 |  | pH Units | 1 | B7I0806 | " | 09/08/2017 |  |
|----|------|--|----------|---|---------|---|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |   |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.130 |  | mmhos/cm | " | B7I0807 | " | " |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B710804 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B710804-BLK1)</b>            |        |                 |       |             | Prepared: 09/08/2017 Analyzed: 09/08/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 68     |                 | ug/kg | 62.5        |   | 109  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 99.2 | 70-130      |     |           |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B7I0804 - EPA 5030 (soil)**

**LCS (B7I0804-BS1)**

Prepared: 09/08/2017 Analyzed: 09/08/2017

|                                  |       |       |       |       |  |      |          |  |  |  |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.092 | 0.002 | mg/kg | 0.100 |  | 92.0 | 77.1-124 |  |  |  |
| Toluene                          | 0.096 | 0.002 | "     | 0.100 |  | 95.8 | 74.5-128 |  |  |  |
| Ethylbenzene                     | 0.096 | 0.002 | "     | 0.100 |  | 96.4 | 66.4-127 |  |  |  |
| m,p-Xylene                       | 0.194 | 0.004 | "     | 0.200 |  | 97.0 | 76.6-124 |  |  |  |
| o-Xylene                         | 0.098 | 0.002 | "     | 0.100 |  | 98.1 | 76.6-124 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 67    |       | ug/kg | 62.5  |  | 107  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |       | "     | 62.5  |  | 102  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 60    |       | "     | 62.5  |  | 96.1 | 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.*

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B7I0804 - EPA 5030 (soil)

| Matrix Spike (B7I0804-MS1)       |       | Source: Y709106-01 |       |       | Prepared: 09/08/2017 Analyzed: 09/08/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.087 | 0.002              | mg/kg | 0.100 | ND  | 86.7 | 71.8-126 |  |  |  |
| Toluene                          | 0.086 | 0.002              | "     | 0.100 | ND  | 86.0 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.087 | 0.002              | "     | 0.100 | ND  | 86.6 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.173 | 0.004              | "     | 0.200 | ND  | 86.6 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.088 | 0.002              | "     | 0.100 | ND  | 88.0 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 66    |                    | ug/kg | 62.5  |   | 106  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 62    |                    | "     | 62.5  |   | 99.1 | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 60    |                    | "     | 62.5  |   | 96.7 | 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 - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B710804 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B710804-MSD1)</b> |        | <b>Source: Y709106-01</b> |       |             | Prepared: 09/08/2017 Analyzed: 09/08/2017 |      |             |      |           |       |
| Benzene                                | 0.079  | 0.002                     | mg/kg | 0.100       | ND  | 79.2 | 71.8-126    | 8.97 | 11.3      |       |
| Toluene                                | 0.082  | 0.002                     | "     | 0.100       | ND  | 81.6 | 65.1-130    | 5.32 | 15.4      |       |
| Ethylbenzene                           | 0.081  | 0.002                     | "     | 0.100       | ND  | 80.9 | 62.2-130    | 6.78 | 19.6      |       |
| m,p-Xylene                             | 0.162  | 0.004                     | "     | 0.200       | ND  | 81.1 | 46.5-137    | 6.61 | 19.2      |       |
| o-Xylene                               | 0.082  | 0.002                     | "     | 0.100       | ND  | 82.3 | 54.2-134    | 6.76 | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 67     |                           | ug/kg | 62.5        |   | 107  | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 62     |                           | "     | 62.5        |   | 99.8 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                           | "     | 62.5        |   | 96.9 | 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 - Guy Jones GU 1

## 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B7I0805 - EPA 3550B

##### Blank (B7I0805-BLK1)

Prepared: 09/08/2017 Analyzed: 09/10/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 46 |      | "     | 50.0 |  | 91.1 | 59-131 |  |  |   |

##### LCS (B7I0805-BS1)

Prepared: 09/08/2017 Analyzed: 09/10/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 925  | 50.0 | mg/kg | 1000 |  | 92.5 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1080 | 200  | "     | 1000 |  | 108  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 47   |      | "     | 50.0 |  | 94.1 | 59-131 |  |  |  |

##### Matrix Spike (B7I0805-MS1)

Source: Y709106-01

Prepared: 09/08/2017 Analyzed: 09/11/2017

|                                   |      |      |       |      |      |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28)                  | 992  | 50.0 | mg/kg | 1000 | 16.7 | 97.5 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 1170 | 200  | "     | 1000 | 19.5 | 116  | 47-133 |  |  |  |
| Surrogate: o-Terphenyl            | 53   |      | "     | 50.0 |      | 106  | 59-131 |  |  |  |

##### Matrix Spike Dup (B7I0805-MSD1)

Source: Y709106-01

Prepared: 09/08/2017 Analyzed: 09/10/2017

|                                   |      |      |       |      |      |      |        |      |    |  |
|-----------------------------------|------|------|-------|------|------|------|--------|------|----|--|
| Diesel (C10-C28)                  | 898  | 50.0 | mg/kg | 1000 | 16.7 | 88.1 | 53-125 | 10.1 | 20 |  |
| Residual Range Organics (C28-C40) | 1050 | 200  | "     | 1000 | 19.5 | 103  | 47-133 | 11.0 | 20 |  |
| Surrogate: o-Terphenyl            | 47   |      | "     | 50.0 |      | 95.0 | 59-131 |      |    |  |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result  | Reporting Limit                           | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B7I0806 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Duplicate (B7I0806-DUP1)</b> |         | <b>Source: Y709106-01</b>                 |          |             | Prepared: 09/08/2017 Analyzed: 09/08/2017 |      |             |       |           |       |
| pH                              | 7.96    |   | pH Units |             | 7.97                                      |      |             | 0.126 | 25        |       |
| <b>Batch B7I0807 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Blank (B7I0807-BLK1)</b>     |         | Prepared: 09/08/2017 Analyzed: 09/08/2017 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00240 |   | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (B7I0807-DUP1)</b> |         | <b>Source: Y709106-01</b>                 |          |             | Prepared: 09/08/2017 Analyzed: 09/08/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.519   |   | mmhos/cm |             | 0.413                                     |      |             | 22.7  | 25        |       |

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 - Guy Jones GU 1

### Notes and Definitions

U Sample is Non-Detect.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

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

September 14, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Guy Jones GU 1**

**Project Number - [none]**

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 13, 2017. This project is associated with Origins project number Y709163-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| N02@10'   | Y709163-01    | Soil   | September 13, 2017 15:00 | 09/13/2017 16:50 |
| E02@10'   | Y709163-02    | Soil   | September 13, 2017 15:02 | 09/13/2017 16:50 |
| S02@10'   | Y709163-03    | Soil   | September 13, 2017 15:04 | 09/13/2017 16:50 |
| S03@10'   | Y709163-04    | Soil   | September 13, 2017 15:06 | 09/13/2017 16:50 |
| W02@10'   | Y709163-05    | Soil   | September 13, 2017 15:08 | 09/13/2017 16:50 |
| W03@10'   | Y709163-06    | Soil   | September 13, 2017 15:10 | 09/13/2017 16:50 |
| B02@11'   | Y709163-07    | Soil   | September 13, 2017 15:12 | 09/13/2017 16:50 |
| B03@11'   | Y709163-08    | Soil   | September 13, 2017 15:14 | 09/13/2017 16:50 |
| B04@11'   | Y709163-09    | Soil   | September 13, 2017 15:16 | 09/13/2017 16:50 |

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 - Guy Jones GU 1

www.originslaboratory.com

page 1 of 1

**ORIGINS** LABORATORY, INC

Client: APL

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: Cornez@Tasman-Geo.com

Project Manager: Bob Cornez

Project Name: Guy Jones GU 1

Project Number: \_\_\_\_\_

Samples Collected By: Alex Chylin

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 |       |       |       | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|----------|----------|-------|-------|-------|---------------------|
|                       |              |              |                 | Unpreserved  | HCl | HNO <sub>3</sub> | Other | Groundwater | Soil | At Summa | Other    | GC/MS | GC/MS | GC/MS |                     |
| N02010'               | 9/13/17      | 1500         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 1                   |
| E02010'               |              | 1502         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 2                   |
| S02010'               |              | 1504         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 3                   |
| S03010'               |              | 1506         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 4                   |
| V02010'               |              | 1508         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 5                   |
| W03010'               |              | 1510         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 6                   |
| B02011'               |              | 1512         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 7                   |
| B03011'               |              | 1514         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 8                   |
| B04011'               |              | 1516         | 2               |              |     |                  |       |             |      | X        |          |       |       |       | 9                   |
|                       |              |              |                 |              |     |                  |       |             |      |          |          |       |       |       | 10                  |

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 9/13/17

Date: 9/13/17

Time: 1600

Time: 1600

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Turnaround Time: Same Day

24 Hr ☐ 48 Hr ☐ 72 Hr ☐

Temp Received: 5.0

Date Results Needed: \_\_\_\_\_

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 - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1709163

Client: Tasman

Client Project ID: KMG - Guy Jones GU 1

Checklist Completed by: [Signature]

Shipped Via: Package

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

Date/time completed: 9-13-11 1715

Airbill #: N/A

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

Cooler Number/Temperature: 157 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | pH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 9-13-11 1715

Origins Laboratory, Inc.

[Signature]

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 - Guy Jones GU 1

**N02@10'**  
**9/13/2017 3:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y709163-01 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 74.6 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |   |            |   |
|-----------------------------|-------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 21.6  | 5.00  | mg/kg | 25 | B711302 | " | 09/13/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 0.417 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | 0.648 | 0.050 | "     | "  | "       | " | "          |   |

Surrogate: 1,2-Dichloroethane-d4 88.6 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.81 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.373 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

E02@10'  
9/13/2017 3:02:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 69.7 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |      |       |       |    |         |   |            |   |
|-----------------------------|------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 14.1 | 5.00  | mg/kg | 25 | B711302 | " | 09/13/2017 |   |
| Benzene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Xylenes, total              | ND   | 0.050 | "     | "  | "       | " | "          | U |

Surrogate: 1,2-Dichloroethane-d4 88.3 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.77 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.354 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S02@10'

9/13/2017 3:04:00PM

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

**Origins Laboratory, Inc.**  
**Y709163-03 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 74.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |   |            |   |
|-----------------------------|-------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 157   | 5.00  | mg/kg | 25 | B711302 | " | 09/13/2017 |   |
| Benzene                     | 0.689 | 0.050 | "     | "  | "       | " | "          |   |
| Toluene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 0.962 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | 3.59  | 0.050 | "     | "  | "       | " | "          |   |

Surrogate: 1,2-Dichloroethane-d4 89.0 % 70-130 " " "  
Surrogate: Toluene-d8 94.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 119 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.00 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.394 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S03@10'

9/13/2017 3:06:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-04 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 76.9 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |   |            |   |
|-----------------------------|-------|-------|-------|---|---------|---|------------|---|
| Gasoline Range Hydrocarbons | ND    | 0.200 | mg/kg | 1 | B711302 | " | 09/13/2017 | U |
| Benzene                     | ND    | 0.002 | "     | " | "       | " | "          | U |
| Toluene                     | ND    | 0.002 | "     | " | "       | " | "          | U |
| Ethylbenzene                | 0.002 | 0.002 | "     | " | "       | " | "          |   |
| Xylenes, total              | ND    | 0.002 | "     | " | "       | " | "          | U |

Surrogate: 1,2-Dichloroethane-d4 96.6 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.0 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.14 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.970 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

W02@10'  
9/13/2017 3:08:00PM

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

**Origins Laboratory, Inc.**  
**Y709163-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 215 | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 76.4 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |      |       |       |     |         |   |            |   |
|-----------------------------|------|-------|-------|-----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 520  | 50.0  | mg/kg | 250 | B711302 | " | 09/13/2017 |   |
| Benzene                     | ND   | 0.050 | "     | 25  | "       | " | 09/14/2017 | U |
| Toluene                     | ND   | 0.050 | "     | "   | "       | " | "          | U |
| Ethylbenzene                | 2.26 | 0.050 | "     | "   | "       | " | "          |   |
| Xylenes, total              | 14.5 | 0.050 | "     | "   | "       | " | "          |   |

Surrogate: 1,2-Dichloroethane-d4 89.5 % 70-130 " " "  
Surrogate: Toluene-d8 80.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " 09/13/2017

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.02 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.429 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

W03@10'  
9/13/2017 3:10:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-06 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 60.4 | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 69.7 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |      |       |       |    |         |   |            |   |
|-----------------------------|------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 43.0 | 5.00  | mg/kg | 25 | B711302 | " | 09/13/2017 |   |
| Benzene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Toluene                     | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | ND   | 0.050 | "     | "  | "       | " | "          | U |
| Xylenes, total              | ND   | 0.050 | "     | "  | "       | " | "          | U |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 88.2 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 103 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 113 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.00 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.411 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**B02@11'**  
**9/13/2017 3:12:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-07 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

*Surrogate: o-Terphenyl* 72.7 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |   |         |   |            |   |
|-----------------------------|----|-------|-------|---|---------|---|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B711302 | " | 09/13/2017 | U |
| Benzene                     | ND | 0.002 | "     | " | "       | " | "          | U |
| Toluene                     | ND | 0.002 | "     | " | "       | " | "          | U |
| Ethylbenzene                | ND | 0.002 | "     | " | "       | " | "          | U |
| Xylenes, total              | ND | 0.002 | "     | " | "       | " | "          | U |

*Surrogate: 1,2-Dichloroethane-d4* 99.7 % 70-130 " " "  
*Surrogate: Toluene-d8* 100 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.59 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.578 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**B03@11'**  
**9/13/2017 3:14:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-08 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

*Surrogate: o-Terphenyl* 78.6 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |              |       |       |    |         |   |            |   |
|-----------------------------|--------------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | <b>34.9</b>  | 5.00  | mg/kg | 25 | B711302 | " | 09/13/2017 |   |
| Benzene                     | <b>0.064</b> | 0.050 | "     | "  | "       | " | "          |   |
| Toluene                     | ND           | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | <b>0.142</b> | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | <b>0.114</b> | 0.050 | "     | "  | "       | " | "          |   |

*Surrogate: 1,2-Dichloroethane-d4* 90.1 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |             |  |          |   |         |            |            |  |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | <b>8.66</b> |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|-------------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |              |  |          |   |         |   |            |  |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | <b>0.565</b> |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**B04@11'**  
**9/13/2017 3:16:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709163-09 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

*Surrogate: o-Terphenyl* 68.9 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |   |         |   |            |   |
|-----------------------------|----|-------|-------|---|---------|---|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B711302 | " | 09/13/2017 | U |
| Benzene                     | ND | 0.002 | "     | " | "       | " | "          | U |
| Toluene                     | ND | 0.002 | "     | " | "       | " | "          | U |
| Ethylbenzene                | ND | 0.002 | "     | " | "       | " | "          | U |
| Xylenes, total              | ND | 0.002 | "     | " | "       | " | "          | U |

*Surrogate: 1,2-Dichloroethane-d4* 100 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.37 |  | pH Units | 1 | B711303 | 09/13/2017 | 09/13/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.879 |  | mmhos/cm | " | B711304 | " | 09/13/2017 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711302 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B711302-BLK1)</b>            |        |                 |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 58     |                 | ug/kg | 62.5        |   | 92.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 99.5 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711302 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B711302-BS1)</b>               |        |                 |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |     |           |       |
| Benzene                                | 0.092  | 0.002           | mg/kg | 0.100       |   | 92.0 | 77.1-124    |     |           |       |
| Toluene                                | 0.094  | 0.002           | "     | 0.100       |   | 94.2 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.088  | 0.002           | "     | 0.100       |   | 87.6 | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.170  | 0.004           | "     | 0.200       |   | 84.9 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.087  | 0.002           | "     | 0.100       |   | 86.9 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 56     |                 | ug/kg | 62.5        |   | 89.1 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 60     |                 | "     | 62.5        |   | 95.8 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711302 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B711302-MS1)</b>      |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |     |           |       |
| Benzene                                | 0.102  | 0.002                     | mg/kg | 0.100       | 0.009                                     | 93.4 | 71.8-126    |     |           | QM-07 |
| Toluene                                | 0.114  | 0.002                     | "     | 0.100       | 0.055                                     | 59.0 | 65.1-130    |     |           |       |
| Ethylbenzene                           | 0.114  | 0.002                     | "     | 0.100       | 0.038                                     | 76.2 | 62.2-130    |     |           |       |
| m,p-Xylene                             | 0.260  | 0.004                     | "     | 0.200       | 0.165                                     | 47.6 | 46.5-137    |     |           |       |
| o-Xylene                               | 0.136  | 0.002                     | "     | 0.100       | 0.081                                     | 55.3 | 54.2-134    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 57     |                           | ug/kg | 62.5        |   | 91.9 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 56     |                           | "     | 62.5        |   | 90.0 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 67     |                           | "     | 62.5        |   | 107  | 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 - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711302 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B711302-MSD1)</b> |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Benzene                                | 0.103  | 0.002                     | mg/kg | 0.100       | 0.009                                     | 94.6 | 71.8-126    | 1.15 | 11.3      |       |
| Toluene                                | 0.127  | 0.002                     | "     | 0.100       | 0.055                                     | 71.5 | 65.1-130    | 10.4 | 15.4      |       |
| Ethylbenzene                           | 0.128  | 0.002                     | "     | 0.100       | 0.038                                     | 89.7 | 62.2-130    | 11.1 | 19.6      |       |
| m,p-Xylene                             | 0.308  | 0.004                     | "     | 0.200       | 0.165                                     | 71.4 | 46.5-137    | 16.8 | 19.2      |       |
| o-Xylene                               | 0.161  | 0.002                     | "     | 0.100       | 0.081                                     | 80.1 | 54.2-134    | 16.6 | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 60     |                           | ug/kg | 62.5        |   | 95.3 | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 55     |                           | "     | 62.5        |   | 87.7 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 69     |                           | "     | 62.5        |   | 111  | 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 - Guy Jones GU 1

## 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B711306 - EPA 3580

##### Blank (B711306-BLK1)

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 44 |      | "     | 50.0 |  | 88.7 | 59-131 |  |  |   |

##### Blank (B711306-BLK2)

Prepared: 09/13/2017 Analyzed: 09/14/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 45 |      | "     | 50.0 |  | 89.2 | 59-131 |  |  |   |

##### LCS (B711306-BS1)

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 875  | 50.0 | mg/kg | 1000 |  | 87.5 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1010 | 200  | "     | 1000 |  | 101  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 45   |      | "     | 50.0 |  | 90.6 | 59-131 |  |  |  |

##### LCS (B711306-BS2)

Prepared: 09/13/2017 Analyzed: 09/14/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 887  | 50.0 | mg/kg | 1000 |  | 88.7 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1060 | 200  | "     | 1000 |  | 106  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 46   |      | "     | 50.0 |  | 91.1 | 59-131 |  |  |  |

##### Matrix Spike (B711306-MS1)

Source: Y709138-01

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |      |      |       |      |      |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1000 | 50.0 | mg/kg | 1000 | 198  | 80.7 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 1080 | 200  | "     | 1000 | 91.8 | 98.4 | 47-133 |  |  |  |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711306 - EPA 3580</b>        |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike (B711306-MS1)</b>      |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Surrogate: o-Terphenyl                 | 47     |                           | mg/kg | 50.0        |   | 94.3 | 59-131      |      |           |       |
| <b>Matrix Spike (B711306-MS2)</b>      |        | <b>Source: Y709159-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1180   | 50.0                      | mg/kg | 1000        | 22.6                                      | 115  | 53-125      |      |           |       |
| Residual Range Organics (C28-C40)      | 1400   | 200                       | "     | 1000        | 26.0                                      | 137  | 47-133      |      |           | QM-07 |
| Surrogate: o-Terphenyl                 | 63     |                           | "     | 50.0        |   | 126  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711306-MSD1)</b> |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1130   | 50.0                      | mg/kg | 1000        | 198                                       | 93.0 | 53-125      | 14.2 | 20        |       |
| Residual Range Organics (C28-C40)      | 1110   | 200                       | "     | 1000        | 91.8                                      | 102  | 47-133      | 3.47 | 20        |       |
| Surrogate: o-Terphenyl                 | 51     |                           | "     | 50.0        |   | 102  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711306-MSD2)</b> |        | <b>Source: Y709159-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1050   | 50.0                      | mg/kg | 1000        | 22.6                                      | 103  | 53-125      | 11.5 | 20        |       |
| Residual Range Organics (C28-C40)      | 1270   | 200                       | "     | 1000        | 26.0                                      | 124  | 47-133      | 9.98 | 20        |       |
| Surrogate: o-Terphenyl                 | 57     |                           | "     | 50.0        |   | 114  | 59-131      |      |           |       |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result                                    | Reporting Limit | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---------------------------------|---|-----------------|----------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B7I1303 - NO PREP</b>  |   |                 |          |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1303-DUP1)</b> | <b>Source: Y709070-01</b>                 |                 |          |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| pH                              | 8.08                                      |                 | pH Units |             | 8.26                                      |      |             | 2.20 | 25        |       |
| <b>Duplicate (B7I1303-DUP2)</b> | <b>Source: Y709070-02</b>                 |                 |          |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| pH                              | 8.52                                      |                 | pH Units |             | 8.66                                      |      |             | 1.63 | 25        |       |
| <b>Batch B7I1304 - NO PREP</b>  |   |                 |          |             |   |      |             |      |           |       |
| <b>Blank (B7I1304-BLK1)</b>     | Prepared: 09/11/2017 Analyzed: 09/13/2017 |                 |          |             |   |      |             |      |           |       |
| Specific Conductance (EC)       | 0.00390                                   |                 | mmhos/cm |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1304-DUP1)</b> | <b>Source: Y709070-01</b>                 |                 |          |             | Prepared: 09/11/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Specific Conductance (EC)       | 0.336                                     |                 | mmhos/cm |             | 0.368                                     |      |             | 9.05 | 25        |       |
| <b>Duplicate (B7I1304-DUP2)</b> | <b>Source: Y709070-02</b>                 |                 |          |             | Prepared: 09/11/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Specific Conductance (EC)       | 0.193                                     |                 | mmhos/cm |             | 0.182                                     |      |             | 5.88 | 25        |       |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

### 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 15, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Guy Jones GU 1

Project Number - [none]

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 14, 2017. This project is associated with Origins project number Y709184-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| E03@10'   | Y709184-01    | Soil   | September 14, 2017 15:20 | 09/14/2017 17:00 |
| S04@10'   | Y709184-02    | Soil   | September 14, 2017 15:25 | 09/14/2017 17:00 |
| S05@10'   | Y709184-03    | Soil   | September 14, 2017 15:32 | 09/14/2017 17:00 |
| W04@10'   | Y709184-04    | Soil   | September 14, 2017 15:38 | 09/14/2017 17:00 |
| N03@10'   | Y709184-05    | Soil   | September 14, 2017 15:45 | 09/14/2017 17:00 |

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 - Guy Jones GU 1

www.originslaboratory.com

page 1 of 1

704184

**ORIGINS**  
LABORATORY, INC

Client: Tasman / APC  
Address: 6899 Pecos St, Unit C  
Telephone Number: 303-810-2414  
Email Address: Cornez@tasman-geo.com

Project Manager: Bob Cornez  
Project Name: Guy Jones GU #1  
Project Number:  
Samples Collected By: Matt P.

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 |     |    |       | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|-------------|----------|-----|----|-------|---------------------|
|                       |              |              |                 | Unpreserved  | HCl | HNO <sub>3</sub> | Other | Groundwater | Soil | Air Summ. # | Other    | ICP | GC | GC/MS |                     |
| E03@10'               | 9/14/17      | 15:20        | 2               | X            |     |                  |       | X           |      |             |          |     | X  | X     | 1                   |
| S04@10'               |              | 15:25        | 2               | X            |     |                  |       | X           |      |             |          |     | X  | X     | 2                   |
| S05@10'               |              | 15:32        | 2               | X            |     |                  |       | X           |      |             |          |     | X  | X     | 3                   |
| W04@10'               |              | 15:38        | 2               | X            |     |                  |       | X           |      |             |          |     | X  | X     | 4                   |
| N03@10'               |              | 15:45        | 2               | X            |     |                  |       | X           |      |             |          |     | X  | X     | 5                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |          |     |    |       | 6                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |          |     |    |       | 7                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |          |     |    |       | 8                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |          |     |    |       | 9                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |          |     |    |       | 10                  |

Relinquished By: [Signature] Date: 9/14/17 Time: 1700  
Relinquished By: [Signature] Date: 9/14/17 Time: 1700

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

6.0

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 - Guy Jones GU 1

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 9709184

Client: Tasman

Client Project ID: KMG - Guy Jones GU # 1

Checklist Completed by: DL

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

Date/time completed: 9-14-12 1737

Airbill #: NA

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

Cooler Number/Temperature: 16.0 °C 1 °C 1 °C (Describe)

Thermometer ID: 1003

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | pH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

<sup>(1)</sup> 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) DL

9-14-12 1737  
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 - Guy Jones GU 1

E03@10'  
9/14/2017 3:20:00PM

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

**Origins Laboratory, Inc.**  
**Y709184-01 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711403 | 09/14/2017 | 09/14/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 84.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND    | 5.00  | mg/kg | 25 | B711402 | 09/14/2017 | 09/14/2017 | U |
| Benzene                     | 0.100 | 0.050 | "     | "  | "       | "          | "          |   |
| Toluene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | 0.127 | 0.050 | "     | "  | "       | "          | "          |   |
| Xylenes, total              | 0.207 | 0.050 | "     | "  | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 91.5 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.2 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |          |   |         |            |            |
|----|------|----------|---|---------|------------|------------|
| pH | 8.79 | pH Units | 1 | B711307 | 09/14/2017 | 09/14/2017 |
|----|------|----------|---|---------|------------|------------|

**Specific Conductance by Modified 9050A**

|                           |       |          |   |         |            |   |
|---------------------------|-------|----------|---|---------|------------|---|
| Specific Conductance (EC) | 0.682 | mmhos/cm | " | B711308 | 09/14/2017 | " |
|---------------------------|-------|----------|---|---------|------------|---|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S04@10'

9/14/2017 3:25:00PM

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

**Origins Laboratory, Inc.**  
**Y709184-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 260 | 25.0 | mg/kg | 1 | B711403 | 09/14/2017 | 09/15/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

|                        |       |        |  |  |   |   |   |  |
|------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 108 % | 59-131 |  |  | " | " | " |  |
|------------------------|-------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |      |       |       |    |         |            |            |   |
|-----------------------------|------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 73.7 | 5.00  | mg/kg | 25 | B711402 | 09/14/2017 | 09/14/2017 |   |
| Benzene                     | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND   | 0.050 | "     | "  | "       | "          | "          | U |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 90.3 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 101 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 124 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.19 |  | pH Units | 1 | B711307 | 09/14/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |      |  |          |   |         |            |   |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 1.01 |  | mmhos/cm | " | B711308 | 09/14/2017 | " |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S05@10'

9/14/2017 3:32:00PM

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

**Origins Laboratory, Inc.**  
**Y709184-03 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 474 | 25.0 | mg/kg | 1 | B711403 | 09/14/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 117 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 340   | 5.00  | mg/kg | 25 | B711402 | 09/14/2017 | 09/14/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | 0.461 | 0.050 | "     | "  | "       | "          | "          |   |
| Xylenes, total              | 0.630 | 0.050 | "     | "  | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 90.9 % 70-130 " " "  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 189 % 70-130 " " " S-04

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.16 |  | pH Units | 1 | B711307 | 09/14/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |      |  |          |   |         |            |   |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 1.75 |  | mmhos/cm | " | B711308 | 09/14/2017 | " |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

W04@10'  
9/14/2017 3:38:00PM

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

Origins Laboratory, Inc.  
Y709184-04 (Soil)

## DRO/RRO by EPA8015C

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 86.4 | 25.0 | mg/kg | 1 | B7I1403 | 09/14/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 118 % 59-131 " " "

## GBTEX by EPA 8260C

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 81.0  | 5.00  | mg/kg | 25 | B7I1402 | 09/14/2017 | 09/14/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | 0.331 | 0.050 | "     | "  | "       | "          | "          |   |
| Xylenes, total              | 0.351 | 0.050 | "     | "  | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 89.1 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 117 % 70-130 " " "

## pH in Soil by EPA 9045D

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.60 |  | pH Units | 1 | B7I1307 | 09/14/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

## Specific Conductance by Modified 9050A

|                           |      |  |          |   |         |            |   |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 1.70 |  | mmhos/cm | " | B7I1308 | 09/14/2017 | " |  |
|---------------------------|------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

N03@10'  
9/14/2017 3:45:00PM

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

**Origins Laboratory, Inc.**  
**Y709184-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 108 | 25.0 | mg/kg | 1 | B711403 | 09/14/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 110 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 77.9  | 5.00  | mg/kg | 25 | B711402 | 09/14/2017 | 09/14/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | 0.173 | 0.050 | "     | "  | "       | "          | "          |   |
| Xylenes, total              | ND    | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 87.5 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 122 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.81 |  | pH Units | 1 | B711307 | 09/14/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.808 |  | mmhos/cm | " | B711308 | 09/14/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B711402-BLK1)</b>            |        |                 |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 56     |                 | ug/kg | 62.5        |   | 89.4 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 63     |                 | "     | 62.5        |   | 101  | 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 - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B711402-BLK2)</b>            |        |                 |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 61     |                 | ug/kg | 62.5        |   | 97.4 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 62     |                 | "     | 62.5        |   | 99.9 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 63     |                 | "     | 62.5        |   | 101  | 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 - Guy Jones GU 1

**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 B711402 - EPA 5030 (soil)**

**LCS (B711402-BS1)**

Prepared: 09/14/2017 Analyzed: 09/14/2017

|                                  |       |       |       |       |  |      |          |  |  |  |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.096 | 0.002 | mg/kg | 0.100 |  | 96.2 | 77.1-124 |  |  |  |
| Toluene                          | 0.096 | 0.002 | "     | 0.100 |  | 95.9 | 74.5-128 |  |  |  |
| Ethylbenzene                     | 0.093 | 0.002 | "     | 0.100 |  | 93.4 | 66.4-127 |  |  |  |
| m,p-Xylene                       | 0.180 | 0.004 | "     | 0.200 |  | 90.0 | 76.6-124 |  |  |  |
| o-Xylene                         | 0.092 | 0.002 | "     | 0.100 |  | 92.1 | 76.6-124 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 55    |       | ug/kg | 62.5  |  | 87.6 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |       | "     | 62.5  |  | 102  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 62    |       | "     | 62.5  |  | 99.6 | 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 - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B711402-BS2)</b>               |        |                 |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |     |           |       |
| Benzene                                | 0.097  | 0.002           | mg/kg | 0.100       |   | 97.4 | 77.1-124    |     |           |       |
| Toluene                                | 0.096  | 0.002           | "     | 0.100       |   | 96.3 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.094  | 0.002           | "     | 0.100       |   | 94.2 | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.184  | 0.004           | "     | 0.200       |   | 92.2 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.094  | 0.002           | "     | 0.100       |   | 94.2 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 56     |                 | ug/kg | 62.5        |   | 89.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 62     |                 | "     | 62.5        |   | 99.7 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 98.6 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B711402-MS1)</b>      |        | <b>Source: Y709160-01</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |     |           |       |
| Benzene                                | 0.100  | 0.002                     | mg/kg | 0.100       | ND  | 99.9 | 71.8-126    |     |           |       |
| Toluene                                | 0.100  | 0.002                     | "     | 0.100       | ND  | 99.8 | 65.1-130    |     |           |       |
| Ethylbenzene                           | 0.096  | 0.002                     | "     | 0.100       | ND  | 95.6 | 62.2-130    |     |           |       |
| m,p-Xylene                             | 0.186  | 0.004                     | "     | 0.200       | ND  | 92.8 | 46.5-137    |     |           |       |
| o-Xylene                               | 0.095  | 0.002                     | "     | 0.100       | ND  | 95.1 | 54.2-134    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 57     |                           | ug/kg | 62.5        |   | 90.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 62     |                           | "     | 62.5        |   | 98.4 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                           | "     | 62.5        |   | 99.4 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B711402-MS2)</b>      |        | <b>Source: Y709160-02</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |     |           |       |
| Benzene                                | 0.088  | 0.002                     | mg/kg | 0.100       | ND  | 88.4 | 71.8-126    |     |           |       |
| Toluene                                | 0.088  | 0.002                     | "     | 0.100       | ND  | 88.2 | 65.1-130    |     |           |       |
| Ethylbenzene                           | 0.086  | 0.002                     | "     | 0.100       | ND  | 85.6 | 62.2-130    |     |           |       |
| m,p-Xylene                             | 0.164  | 0.004                     | "     | 0.200       | ND  | 82.2 | 46.5-137    |     |           |       |
| o-Xylene                               | 0.085  | 0.002                     | "     | 0.100       | ND  | 84.7 | 54.2-134    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 57     |                           | ug/kg | 62.5        |   | 90.7 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 63     |                           | "     | 62.5        |   | 100  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                           | "     | 62.5        |   | 99.6 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B711402-MSD1)</b> |        | <b>Source: Y709160-01</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Benzene                                | 0.080  | 0.002                     | mg/kg | 0.100       | ND  | 79.5 | 71.8-126    | 22.8 | 11.3      | QR-02 |
| Toluene                                | 0.079  | 0.002                     | "     | 0.100       | ND  | 79.5 | 65.1-130    | 22.7 | 15.4      | QR-02 |
| Ethylbenzene                           | 0.075  | 0.002                     | "     | 0.100       | ND  | 75.3 | 62.2-130    | 23.8 | 19.6      | QR-02 |
| m,p-Xylene                             | 0.148  | 0.004                     | "     | 0.200       | ND  | 74.2 | 46.5-137    | 22.3 | 19.2      | QR-02 |
| o-Xylene                               | 0.075  | 0.002                     | "     | 0.100       | ND  | 75.1 | 54.2-134    | 23.6 | 17.9      | QR-02 |
| Surrogate: 1,2-Dichloroethane-d4       | 58     |                           | ug/kg | 62.5        |   | 93.6 | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 63     |                           | "     | 62.5        |   | 101  | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                           | "     | 62.5        |   | 97.2 | 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 - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B711402 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |       |           |       |
| <b>Matrix Spike Dup (B711402-MSD2)</b> |        | <b>Source: Y709160-02</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| Benzene                                | 0.088  | 0.002                     | mg/kg | 0.100       | ND  | 87.9 | 71.8-126    | 0.499 | 11.3      |       |
| Toluene                                | 0.088  | 0.002                     | "     | 0.100       | ND  | 88.4 | 65.1-130    | 0.226 | 15.4      |       |
| Ethylbenzene                           | 0.084  | 0.002                     | "     | 0.100       | ND  | 83.9 | 62.2-130    | 1.96  | 19.6      |       |
| m,p-Xylene                             | 0.163  | 0.004                     | "     | 0.200       | ND  | 81.6 | 46.5-137    | 0.782 | 19.2      |       |
| o-Xylene                               | 0.083  | 0.002                     | "     | 0.100       | ND  | 83.3 | 54.2-134    | 1.69  | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 58     |                           | ug/kg | 62.5        |   | 93.3 | 70-130      |       |           |       |
| Surrogate: Toluene-d8                  | 63     |                           | "     | 62.5        |   | 100  | 70-130      |       |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                           | "     | 62.5        |   | 97.8 | 70-130      |       |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B711403 - EPA 3550B**

**Blank (B711403-BLK1)**

Prepared: 09/14/2017 Analyzed: 09/14/2017

|                                   |    |      |       |      |  |     |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|-----|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |     |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |     |        |  |  | U |
| Surrogate: o-Terphenyl            | 65 |      | "     | 50.0 |  | 130 | 59-131 |  |  |   |

**Blank (B711403-BLK2)**

Prepared: 09/14/2017 Analyzed: 09/15/2017

|                                   |    |      |       |      |  |     |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|-----|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |     |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |     |        |  |  | U |
| Surrogate: o-Terphenyl            | 57 |      | "     | 50.0 |  | 115 | 59-131 |  |  |   |

**LCS (B711403-BS1)**

Prepared: 09/14/2017 Analyzed: 09/14/2017

|                                   |      |      |       |      |  |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1210 | 50.0 | mg/kg | 1000 |  | 121 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1210 | 200  | "     | 1000 |  | 121 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 65   |      | "     | 50.0 |  | 130 | 59-131 |  |  |  |

**LCS (B711403-BS2)**

Prepared: 09/14/2017 Analyzed: 09/15/2017

|                                   |      |      |       |      |  |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1120 | 50.0 | mg/kg | 1000 |  | 112 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1090 | 200  | "     | 1000 |  | 109 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 65   |      | "     | 50.0 |  | 131 | 59-131 |  |  |  |

**Matrix Spike (B711403-MS1)**

**Source: Y709166-03**

Prepared: 09/14/2017 Analyzed: 09/15/2017

|                                   |      |      |       |      |      |      |        |  |  |       |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|-------|
| Diesel (C10-C28)                  | 2090 | 50.0 | mg/kg | 1000 | 1970 | 11.5 | 53-125 |  |  | QM-02 |
| Residual Range Organics (C28-C40) | 2260 | 200  | "     | 1000 | 812  | 145  | 47-133 |  |  | QM-02 |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711403 - EPA 3550B</b>       |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike (B711403-MS1)</b>      |        | <b>Source: Y709166-03</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/15/2017 |      |             |      |           |       |
| Surrogate: o-Terphenyl                 | 42     |                           | mg/kg | 50.0        |   | 83.5 | 59-131      |      |           |       |
| <b>Matrix Spike (B711403-MS2)</b>      |        | <b>Source: Y709166-02</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1570   | 50.0                      | mg/kg | 1000        | 451                                       | 112  | 53-125      |      |           |       |
| Residual Range Organics (C28-C40)      | 1270   | 200                       | "     | 1000        | 199                                       | 107  | 47-133      |      |           |       |
| Surrogate: o-Terphenyl                 | 63     |                           | "     | 50.0        |   | 127  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711403-MSD1)</b> |        | <b>Source: Y709166-03</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 2100   | 50.0                      | mg/kg | 1000        | 1970                                      | 13.2 | 53-125      | 14.0 | 20        | QM-02 |
| Residual Range Organics (C28-C40)      | 1480   | 200                       | "     | 1000        | 812                                       | 67.2 | 47-133      | 73.1 | 20        | QM-02 |
| Surrogate: o-Terphenyl                 | 65     |                           | "     | 50.0        |   | 131  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711403-MSD2)</b> |        | <b>Source: Y709166-02</b> |       |             | Prepared: 09/14/2017 Analyzed: 09/15/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1170   | 50.0                      | mg/kg | 1000        | 451                                       | 71.9 | 53-125      | 43.3 | 20        | QR-02 |
| Residual Range Organics (C28-C40)      | 1150   | 200                       | "     | 1000        | 199                                       | 94.7 | 47-133      | 11.9 | 20        |       |
| Surrogate: o-Terphenyl                 | 58     |                           | "     | 50.0        |   | 117  | 59-131      |      |           |       |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result                                    | Reporting Limit | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------|---|-----------------|----------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B7I1307 - NO PREP</b>  |   |                 |          |             |   |      |             |       |           |       |
| <b>Duplicate (B7I1307-DUP1)</b> | <b>Source: Y709138-01</b>                 |                 |          |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| pH                              | 8.02                                      |                 | pH Units |             | 8.06                                      |      |             | 0.498 | 25        |       |
| <b>Batch B7I1308 - NO PREP</b>  |   |                 |          |             |   |      |             |       |           |       |
| <b>Blank (B7I1308-BLK1)</b>     | Prepared: 09/14/2017 Analyzed: 09/14/2017 |                 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00390                                   |                 | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (B7I1308-DUP1)</b> | <b>Source: Y709138-01</b>                 |                 |          |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.0544                                    |                 | mmhos/cm |             | 0.0537                                    |      |             | 1.30  | 25        |       |

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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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September 19, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Guy Jones GU 1

Project Number - [none]

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 18, 2017. This project is associated with Origins project number Y709230-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| W05@9'    | Y709230-01    | Soil   | September 18, 2017 14:25 | 09/18/2017 16:48 |
| B05@10'   | Y709230-02    | Soil   | September 18, 2017 14:30 | 09/18/2017 16:48 |
| E04@7'    | Y709230-03    | Soil   | September 18, 2017 14:35 | 09/18/2017 16:48 |
| B06@8'    | Y709230-04    | Soil   | September 18, 2017 14:40 | 09/18/2017 16:48 |
| N04@7'    | Y709230-05    | Soil   | September 18, 2017 14:45 | 09/18/2017 16:48 |
| S06@7'    | Y709230-06    | Soil   | September 18, 2017 14:50 | 09/18/2017 16:48 |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

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page 1 of 1

170230

Client: APC

Project Manager: Robert Cornez

Project Name: Guy Jones GU #1

Project Number: E3

Samples Collected By: E3

Telephone Number:

Email Address: rcornez@tasman-geo.com

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative |     |                  |       | Matrix      |      | Analysis    |       |       |       | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|-------------|-------|-------|-------|---------------------|
|                       |              |              |                 | Unpreserved  | HCl | HNO <sub>3</sub> | Other | Groundwater | Soil | Air Summa # | Other | GC/MS | GC/MS |                     |
| W05e9'                | 9/18/17      | 1425         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 1                   |
| B05e10'               |              | 1430         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 2                   |
| E04e7'                |              | 1435         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 3                   |
| B06e8'                |              | 1440         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 4                   |
| N04e7'                |              | 1445         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 5                   |
| S06e7'                |              | 1450         | 2               | X            |     |                  |       |             | X    | X           | X     | X     | GC/MS | 6                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |       |       |       | 7                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |       |       |       | 8                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |       |       |       | 9                   |
|                       |              |              |                 |              |     |                  |       |             |      |             |       |       |       | 10                  |

Relinquished By: L.A. Hill

Relinquished By:

Date: 9/18/17

Date:

Time: 1648

Time:

Received By: [Signature]

Received By:

Date: 9/18/17

Date:

Time: 1648

Time:

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 27.4

Date Results Needed

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 - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1709230

Client: Tasman

Client Project ID: KMG - Guy Jones GU 1

Checklist Completed by: Dan

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

Date/time completed: 9-18-11

Airbill #: NA

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

Cooler Number/Temperature: 1 27.4 °C 1 °C 1 °C (Describe)

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 <sup>(1)</sup> ?   |                                     | <input checked="" type="checkbox"/> |                                     | sampled same day  |
| Is there ice present (document if blue ice is used)   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)   |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)  |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     | pH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9-18-11

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 - Guy Jones GU 1

W05@9'

9/18/2017 2:25:00PM

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

**Origins Laboratory, Inc.**  
**Y709230-01 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 77.0 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |            |            |  |
|-----------------------------|-------|-------|-------|---|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 0.789 | 0.200 | mg/kg | 1 | B711805 | 09/18/2017 | 09/18/2017 |  |
| Benzene                     | 0.021 | 0.002 | "     | " | "       | "          | "          |  |
| Toluene                     | 0.034 | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene                | 0.007 | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total              | 0.100 | 0.002 | "     | " | "       | "          | "          |  |

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "

Surrogate: Toluene-d8 96.3 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.50 |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.552 |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**B05@10'**  
**9/18/2017 2:30:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709230-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 69.9 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |              |       |       |   |         |            |            |   |
|-----------------------------|--------------|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND           | 0.200 | mg/kg | 1 | B711805 | 09/18/2017 | 09/18/2017 | U |
| Benzene                     | <b>0.017</b> | 0.002 | "     | " | "       | "          | "          |   |
| Toluene                     | <b>0.024</b> | 0.002 | "     | " | "       | "          | "          |   |
| Ethylbenzene                | <b>0.004</b> | 0.002 | "     | " | "       | "          | "          |   |
| Xylenes, total              | <b>0.054</b> | 0.002 | "     | " | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 97.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |             |  |          |   |         |            |            |  |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | <b>8.19</b> |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|-------------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |              |  |          |   |         |            |   |  |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | <b>0.525</b> |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

E04@7'

9/18/2017 2:35:00PM

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

**Origins Laboratory, Inc.**  
**Y709230-03 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 441 | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 77.8 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |      |       |       |     |         |            |            |  |
|-----------------------------|------|-------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 2400 | 50.0  | mg/kg | 250 | B711805 | 09/18/2017 | 09/18/2017 |  |
| Benzene                     | 6.30 | 0.498 | "     | "   | "       | "          | "          |  |
| Toluene                     | 43.5 | 0.498 | "     | "   | "       | "          | "          |  |
| Ethylbenzene                | 11.1 | 0.498 | "     | "   | "       | "          | "          |  |
| Xylenes, total              | 147  | 0.498 | "     | "   | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 91.8 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 87.2 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 121 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.93 |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.353 |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

B06@8'

9/18/2017 2:40:00PM

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

**Origins Laboratory, Inc.**  
**Y709230-04 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 148 | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 88.0 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |      |       |       |     |         |            |            |  |
|-----------------------------|------|-------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 2860 | 50.0  | mg/kg | 250 | B711805 | 09/18/2017 | 09/19/2017 |  |
| Benzene                     | 7.35 | 0.050 | "     | 25  | "       | "          | 09/18/2017 |  |
| Toluene                     | 18.9 | 0.498 | "     | 250 | "       | "          | 09/19/2017 |  |
| Ethylbenzene                | 7.76 | 0.050 | "     | 25  | "       | "          | 09/18/2017 |  |
| Xylenes, total              | 163  | 0.498 | "     | 250 | "       | "          | 09/19/2017 |  |

Surrogate: 1,2-Dichloroethane-d4 87.5 % 70-130 " " 09/18/2017  
Surrogate: Toluene-d8 84.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 120 % 70-130 " " 09/19/2017

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.08 |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.184 |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

N04@7'

9/18/2017 2:45:00PM

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

**Origins Laboratory, Inc.**  
**Y709230-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 96.9 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 18.5  | 5.00  | mg/kg | 25 | B711805 | 09/18/2017 | 09/18/2017 |   |
| Benzene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | 0.080 | 0.050 | "     | "  | "       | "          | "          |   |
| Ethylbenzene                | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | 0.493 | 0.050 | "     | "  | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 86.5 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.1 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.63 |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.163 |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

S06@7'  
9/18/2017 2:50:00PM

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

**Origins Laboratory, Inc.**  
**Y709230-06 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 68.8 | 25.0 | mg/kg | 1 | B711803 | 09/18/2017 | 09/18/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 74.9 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |  |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 359   | 5.00  | mg/kg | 25 | B711805 | 09/18/2017 | 09/19/2017 |  |
| Benzene                     | 0.096 | 0.050 | "     | "  | "       | "          | "          |  |
| Toluene                     | 0.148 | 0.050 | "     | "  | "       | "          | "          |  |
| Ethylbenzene                | 0.940 | 0.050 | "     | "  | "       | "          | "          |  |
| Xylenes, total              | 6.29  | 0.050 | "     | "  | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |      |
|----------------------------------|--------|--------|--|--|---|---|---|------|
| Surrogate: 1,2-Dichloroethane-d4 | 89.6 % | 70-130 |  |  | " | " | " |      |
| Surrogate: Toluene-d8            | 80.9 % | 70-130 |  |  | " | " | " |      |
| Surrogate: 4-Bromofluorobenzene  | 169 %  | 70-130 |  |  | " | " | " | S-04 |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.10 |  | pH Units | 1 | B711806 | 09/18/2017 | 09/18/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.279 |  | mmhos/cm | " | B711807 | 09/18/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711805 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B711805-BLK1)</b>            |        |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 63     |                 | ug/kg | 62.5        |   | 100  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 63     |                 | "     | 62.5        |   | 102  | 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 - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711805 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B711805-BLK2)</b>            |        |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 61     |                 | ug/kg | 62.5        |   | 97.0 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 63     |                 | "     | 62.5        |   | 100  | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B711805 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B711805-BS1)</b>               |        |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |     |           |       |
| Benzene                                | 0.102  | 0.002           | mg/kg | 0.100       |   | 102  | 77.1-124    |     |           |       |
| Toluene                                | 0.100  | 0.002           | "     | 0.100       |   | 100  | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.100  | 0.002           | "     | 0.100       |   | 100  | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.194  | 0.004           | "     | 0.200       |   | 97.0 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.098  | 0.002           | "     | 0.100       |   | 98.2 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 65     |                 | ug/kg | 62.5        |   | 104  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B711805 - EPA 5030 (soil)  |        |                 |       |             |   |      |             |     |           |       |
| LCS (B711805-BS2)                |        |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |     |           |       |
| Benzene                          | 0.096  | 0.002           | mg/kg | 0.100       |   | 95.5 | 77.1-124    |     |           |       |
| Toluene                          | 0.091  | 0.002           | "     | 0.100       |   | 91.0 | 74.5-128    |     |           |       |
| Ethylbenzene                     | 0.088  | 0.002           | "     | 0.100       |   | 88.5 | 66.4-127    |     |           |       |
| m,p-Xylene                       | 0.171  | 0.004           | "     | 0.200       |   | 85.6 | 76.6-124    |     |           |       |
| o-Xylene                         | 0.085  | 0.002           | "     | 0.100       |   | 85.3 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4 | 59     |                 | ug/kg | 62.5        |   | 93.7 | 70-130      |     |           |       |
| Surrogate: Toluene-d8            | 62     |                 | "     | 62.5        |   | 98.4 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene  | 61     |                 | "     | 62.5        |   | 97.6 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B711805 - EPA 5030 (soil)**

| Matrix Spike (B711805-MS1)       |       | Source: Y709207-01 |       |       | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.095 | 0.002              | mg/kg | 0.100 | ND  | 95.2 | 71.8-126 |  |  |  |
| Toluene                          | 0.096 | 0.002              | "     | 0.100 | ND  | 95.6 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.092 | 0.002              | "     | 0.100 | ND  | 92.2 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.177 | 0.004              | "     | 0.200 | ND  | 88.5 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.088 | 0.002              | "     | 0.100 | ND  | 88.1 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 65    |                    | ug/kg | 62.5  |   | 104  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |                    | "     | 62.5  |   | 103  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 64    |                    | "     | 62.5  |   | 102  | 70-130   |  |  |  |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B711805 - EPA 5030 (soil)**

| Matrix Spike (B711805-MS2)       |       | Source: Y709230-01 |       |       | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |          |  |  |       |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|-------|
| Benzene                          | 0.091 | 0.002              | mg/kg | 0.100 | 0.021                                     | 70.6 | 71.8-126 |  |  | QM-07 |
| Toluene                          | 0.092 | 0.002              | "     | 0.100 | 0.034                                     | 57.9 | 65.1-130 |  |  | QM-07 |
| Ethylbenzene                     | 0.078 | 0.002              | "     | 0.100 | 0.007                                     | 70.7 | 62.2-130 |  |  | QM-07 |
| m,p-Xylene                       | 0.174 | 0.004              | "     | 0.200 | 0.080                                     | 47.0 | 46.5-137 |  |  |       |
| o-Xylene                         | 0.079 | 0.002              | "     | 0.100 | 0.020                                     | 59.2 | 54.2-134 |  |  |       |
| Surrogate: 1,2-Dichloroethane-d4 | 63    |                    | ug/kg | 62.5  |   | 100  | 70-130   |  |  |       |
| Surrogate: Toluene-d8            | 61    |                    | "     | 62.5  |   | 97.5 | 70-130   |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 64    |                    | "     | 62.5  |   | 103  | 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 - Guy Jones GU 1

**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 |
|--|---------------------------|-----------------|-------|-------------|---|------|-------------|--------|-----------|-------|
| <b>Batch B711805 - EPA 5030 (soil)</b> |                           |                 |       |             |   |      |             |        |           |       |
| <b>Matrix Spike Dup (B711805-MSD1)</b> | <b>Source: Y709207-01</b> |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |        |           |       |
| Benzene                                | 0.095                     | 0.002           | mg/kg | 0.100       | ND  | 95.2 | 71.8-126    | 0.0630 | 11.3      |       |
| Toluene                                | 0.095                     | 0.002           | "     | 0.100       | ND  | 95.1 | 65.1-130    | 0.587  | 15.4      |       |
| Ethylbenzene                           | 0.088                     | 0.002           | "     | 0.100       | ND  | 88.3 | 62.2-130    | 4.28   | 19.6      |       |
| m,p-Xylene                             | 0.170                     | 0.004           | "     | 0.200       | ND  | 84.8 | 46.5-137    | 4.23   | 19.2      |       |
| o-Xylene                               | 0.085                     | 0.002           | "     | 0.100       | ND  | 85.4 | 54.2-134    | 3.13   | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 66                        |                 | ug/kg | 62.5        |   | 105  | 70-130      |        |           |       |
| Surrogate: Toluene-d8                  | 65                        |                 | "     | 62.5        |   | 103  | 70-130      |        |           |       |
| Surrogate: 4-Bromofluorobenzene        | 64                        |                 | "     | 62.5        |   | 102  | 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 - Guy Jones GU 1

**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 |
|--|---------------------------|-----------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711805 - EPA 5030 (soil)</b> |                           |                 |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B711805-MSD2)</b> | <b>Source: Y709230-01</b> |                 |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Benzene                                | 0.083                     | 0.002           | mg/kg | 0.100       | 0.021                                     | 62.4 | 71.8-126    | 9.36 | 11.3      | QM-07 |
| Toluene                                | 0.083                     | 0.002           | "     | 0.100       | 0.034                                     | 48.8 | 65.1-130    | 10.4 | 15.4      | QM-07 |
| Ethylbenzene                           | 0.070                     | 0.002           | "     | 0.100       | 0.007                                     | 63.1 | 62.2-130    | 10.2 | 19.6      | QM-07 |
| m,p-Xylene                             | 0.155                     | 0.004           | "     | 0.200       | 0.080                                     | 37.2 | 46.5-137    | 11.9 | 19.2      | QM-07 |
| o-Xylene                               | 0.072                     | 0.002           | "     | 0.100       | 0.020                                     | 52.3 | 54.2-134    | 9.16 | 17.9      | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4       | 64                        |                 | ug/kg | 62.5        |   | 102  | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 60                        |                 | "     | 62.5        |   | 95.4 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62                        |                 | "     | 62.5        |   | 99.0 | 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 - Guy Jones GU 1

## 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B711803 - EPA 3550B

##### Blank (B711803-BLK1)

Prepared: 09/18/2017 Analyzed: 09/18/2017

|                                   |    |      |       |      |  |     |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|-----|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |     |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |     |        |  |  | U |
| Surrogate: o-Terphenyl            | 55 |      | "     | 50.0 |  | 110 | 59-131 |  |  |   |

##### Blank (B711803-BLK2)

Prepared: 09/18/2017 Analyzed: 09/18/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 40 |      | "     | 50.0 |  | 80.9 | 59-131 |  |  |   |

##### LCS (B711803-BS1)

Prepared: 09/18/2017 Analyzed: 09/18/2017

|                                   |      |      |       |      |  |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1030 | 50.0 | mg/kg |      |  |     | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 884  | 200  | "     |      |  |     | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 55   |      | "     | 50.0 |  | 110 | 59-131 |  |  |  |

##### LCS (B711803-BS2)

Prepared: 09/18/2017 Analyzed: 09/18/2017

|                                   |     |      |       |      |  |      |        |  |  |  |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 968 | 50.0 | mg/kg | 1000 |  | 96.8 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 816 | 200  | "     | 1000 |  | 81.6 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 50  |      | "     | 50.0 |  | 101  | 59-131 |  |  |  |

##### Matrix Spike (B711803-MS1)

Source: Y709222-01

Prepared: 09/18/2017 Analyzed: 09/18/2017

|                                   |     |      |       |  |      |  |        |  |  |  |
|-----------------------------------|-----|------|-------|--|------|--|--------|--|--|--|
| Diesel (C10-C28)                  | 895 | 50.0 | mg/kg |  | 20.2 |  | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 724 | 200  | "     |  | 83.6 |  | 47-133 |  |  |  |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B711803 - EPA 3550B</b>       |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike (B711803-MS1)</b>      |        | <b>Source: Y709222-01</b> |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Surrogate: o-Terphenyl                 | 48     |                           | mg/kg | 50.0        |   | 95.8 | 59-131      |      |           |       |
| <b>Matrix Spike (B711803-MS2)</b>      |        | <b>Source: Y709207-01</b> |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 906    | 50.0                      | mg/kg | 1000        | ND  | 90.6 | 53-125      |      |           |       |
| Residual Range Organics (C28-C40)      | 740    | 200                       | "     | 1000        | 26.4                                      | 71.4 | 47-133      |      |           |       |
| Surrogate: o-Terphenyl                 | 45     |                           | "     | 50.0        |   | 90.4 | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711803-MSD1)</b> |        | <b>Source: Y709222-01</b> |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 943    | 50.0                      | mg/kg |             | 20.2                                      |      | 53-125      |      | 20        |       |
| Residual Range Organics (C28-C40)      | 789    | 200                       | "     |             | 83.6                                      |      | 47-133      |      | 20        |       |
| Surrogate: o-Terphenyl                 | 54     |                           | "     | 50.0        |   | 107  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711803-MSD2)</b> |        | <b>Source: Y709207-01</b> |       |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1000   | 50.0                      | mg/kg | 1000        | ND  | 100  | 53-125      | 9.96 | 20        |       |
| Residual Range Organics (C28-C40)      | 845    | 200                       | "     | 1000        | 26.4                                      | 81.8 | 47-133      | 13.7 | 20        |       |
| Surrogate: o-Terphenyl                 | 52     |                           | "     | 50.0        |   | 105  | 59-131      |      |           |       |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result  | Reporting Limit                           | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B7I1806 - NO PREP</b>  |         |   |          |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1806-DUP1)</b> |         | <b>Source: Y709228-01</b>                 |          |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| pH                              | 6.96    |   | pH Units |             | 7.91                                      |      |             | 12.8 | 25        |       |
| <b>Batch B7I1807 - NO PREP</b>  |         |   |          |             |   |      |             |      |           |       |
| <b>Blank (B7I1807-BLK1)</b>     |         | Prepared: 09/18/2017 Analyzed: 09/18/2017 |          |             |   |      |             |      |           |       |
| Specific Conductance (EC)       | 0.00570 |   | mmhos/cm |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1807-DUP1)</b> |         | <b>Source: Y709228-01</b>                 |          |             | Prepared: 09/18/2017 Analyzed: 09/18/2017 |      |             |      |           |       |
| Specific Conductance (EC)       | 0.753   |   | mmhos/cm |             | 0.821                                     |      |             | 8.63 | 25        |       |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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 20, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Guy Jones GU 1

Project Number - [none]

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 19, 2017. This project is associated with Origins project number Y709254-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| B07@14'   | Y709254-01    | Soil   | September 19, 2017 11:00 | 09/19/2017 17:45 |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

Client: APC

Address: \_\_\_\_\_

Project Manager: Bob Corneiz

Project Name: Guy Jones GV#

Project Number: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Samples Collected By: Alan Chapin

Email Address: YCORNEIZ@tksman-64.com

page | of |

170254

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   | Sample Instructions |  |
|-------------------------------------|----------------------|-------------------|-----------------|--------------|-----|------------------|-------|-------------|------|-------------|--|---------------------|--|
|                                     |                      |                   |                 | Unpreserved  | HCl | HNO <sub>3</sub> | Other | Groundwater | Soil | Air Summa # |  |                     | Other  |
| BOTE14'                             | 9/19/17              | 1100              | 2               |              |     |                  |       |             | X    |             | 7<br>COTEX<br>8260<br>9<br>ORIPRO<br>9<br>EC 11<br>7<br>SIR<br>7<br>ON WRO | 1                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 2                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 3                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 4                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 5                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 6                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 7                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 8                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 9                   |  |
|                                     |                      |                   |                 |              |     |                  |       |             |      |             |  | 10                  |  |
| Relinquished By: <u>Alan Chapin</u> | Date: <u>9/19/17</u> | Time: <u>1745</u> |                 |              |     |                  |       |             |      |             | Date: <u>9.19.17</u>   | Time: <u>1706</u>   | Turnaround Time: <u>same Day</u> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> |
| Relinquished By: _____              | Date: _____          | Time: _____       |                 |              |     |                  |       |             |      |             | Date: _____  | Time: _____         | Standard <input type="checkbox"/>  |

Temp Received: 5.4

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

*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 - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 770925-4

Client: Tasman

Client Project ID: KMG - Guy Jones GU 1

Checklist Completed by: Dr. W.

Shipped Via: HD

Date/time completed: 9-19-13 12:15

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

Airbill #: NP

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

Cooler Number/Temperature: 15.4 °C 1 °C 1 °C 1 °C

Thermometer ID: 6003

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | pH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9-19-13 12:15

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 - Guy Jones GU 1

B07@14'

9/19/2017 11:00:00AM

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

**Origins Laboratory, Inc.**  
Y709254-01 (Soil)

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 131 | 25.0 | mg/kg | 1 | B711902 | 09/19/2017 | 09/19/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 85.9 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |       |       |       |     |         |            |            |   |
|-----------------------------|-------|-------|-------|-----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 223   | 50.0  | mg/kg | 250 | B711901 | 09/19/2017 | 09/19/2017 |   |
| Benzene                     | 0.068 | 0.050 | "     | 25  | "       | "          | 09/20/2017 |   |
| Toluene                     | ND    | 0.050 | "     | "   | "       | "          | "          | U |
| Ethylbenzene                | 0.494 | 0.050 | "     | "   | "       | "          | "          |   |
| Xylenes, total              | 6.31  | 0.050 | "     | "   | "       | "          | "          |   |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 91.4 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 89.9 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 128 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.67 |  | pH Units | 1 | B711903 | 09/19/2017 | 09/20/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |   |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.156 |  | mmhos/cm | " | B711904 | " | " |  |
|---------------------------|-------|--|----------|---|---------|---|---|--|

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 - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B7I1901 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B7I1901-BLK1)</b>            |        |                 |       |             | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 54     |                 | ug/kg | 62.5        |   | 86.0 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 102  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                 | "     | 62.5        |   | 97.7 | 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 - Guy Jones GU 1

**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 B7I1901 - EPA 5030 (soil)  |        |                 |       |             |   |      |             |     |           |       |
| LCS (B7I1901-BS1)                |        |                 |       |             | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |             |     |           |       |
| Benzene                          | 0.099  | 0.002           | mg/kg | 0.100       |   | 99.0 | 77.1-124    |     |           |       |
| Toluene                          | 0.097  | 0.002           | "     | 0.100       |   | 96.9 | 74.5-128    |     |           |       |
| Ethylbenzene                     | 0.091  | 0.002           | "     | 0.100       |   | 91.0 | 66.4-127    |     |           |       |
| m,p-Xylene                       | 0.173  | 0.004           | "     | 0.200       |   | 86.3 | 76.6-124    |     |           |       |
| o-Xylene                         | 0.087  | 0.002           | "     | 0.100       |   | 87.0 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4 | 51     |                 | ug/kg | 62.5        |   | 82.1 | 70-130      |     |           |       |
| Surrogate: Toluene-d8            | 63     |                 | "     | 62.5        |   | 101  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene  | 59     |                 | "     | 62.5        |   | 94.7 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B711901 - EPA 5030 (soil)**

| Matrix Spike (B711901-MS1)       |       | Source: Y709211-02 |       |       | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.104 | 0.002              | mg/kg | 0.100 | ND  | 104  | 71.8-126 |  |  |  |
| Toluene                          | 0.101 | 0.002              | "     | 0.100 | ND  | 101  | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.094 | 0.002              | "     | 0.100 | ND  | 93.6 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.178 | 0.004              | "     | 0.200 | ND  | 88.9 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.089 | 0.002              | "     | 0.100 | ND  | 88.6 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 51    |                    | ug/kg | 62.5  |   | 82.4 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |                    | "     | 62.5  |   | 103  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 59    |                    | "     | 62.5  |   | 95.0 | 70-130   |  |  |  |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B711901 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |       |           |       |
| <b>Matrix Spike Dup (B711901-MSD1)</b> |        | <b>Source: Y709211-02</b> |       |             | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |             |       |           |       |
| Benzene                                | 0.100  | 0.002                     | mg/kg | 0.100       | ND  | 99.7 | 71.8-126    | 4.07  | 11.3      |       |
| Toluene                                | 0.099  | 0.002                     | "     | 0.100       | ND  | 98.7 | 65.1-130    | 2.68  | 15.4      |       |
| Ethylbenzene                           | 0.093  | 0.002                     | "     | 0.100       | ND  | 93.0 | 62.2-130    | 0.600 | 19.6      |       |
| m,p-Xylene                             | 0.176  | 0.004                     | "     | 0.200       | ND  | 87.9 | 46.5-137    | 1.13  | 19.2      |       |
| o-Xylene                               | 0.090  | 0.002                     | "     | 0.100       | ND  | 89.6 | 54.2-134    | 1.10  | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 53     |                           | ug/kg | 62.5        |   | 85.3 | 70-130      |       |           |       |
| Surrogate: Toluene-d8                  | 63     |                           | "     | 62.5        |   | 101  | 70-130      |       |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                           | "     | 62.5        |   | 98.2 | 70-130      |       |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B711902 - EPA 3550B**

**Blank (B711902-BLK1)**

Prepared: 09/19/2017 Analyzed: 09/19/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 49 |      | "     | 50.0 |  | 97.4 | 59-131 |  |  |   |

**LCS (B711902-BS1)**

Prepared: 09/19/2017 Analyzed: 09/19/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1130 | 50.0 | mg/kg | 1000 |  | 113  | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 966  | 200  | "     | 1000 |  | 96.6 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 60   |      | "     | 50.0 |  | 120  | 59-131 |  |  |  |

**Matrix Spike (B711902-MS1)**

**Source: Y709211-02**

Prepared: 09/19/2017 Analyzed: 09/19/2017

|                                   |      |      |       |      |      |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1010 | 50.0 | mg/kg | 1000 | ND   | 101  | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 895  | 200  | "     | 1000 | 15.4 | 88.0 | 47-133 |  |  |  |
| Surrogate: o-Terphenyl            | 55   |      | "     | 50.0 |      | 110  | 59-131 |  |  |  |

**Matrix Spike Dup (B711902-MSD1)**

**Source: Y709211-02**

Prepared: 09/19/2017 Analyzed: 09/19/2017

|                                   |     |      |       |      |      |      |        |      |    |       |
|-----------------------------------|-----|------|-------|------|------|------|--------|------|----|-------|
| Diesel (C10-C28)                  | 884 | 50.0 | mg/kg | 1000 | ND   | 88.4 | 53-125 | 13.5 | 20 |       |
| Residual Range Organics (C28-C40) | 731 | 200  | "     | 1000 | 15.4 | 71.6 | 47-133 | 20.5 | 20 | QR-02 |
| Surrogate: o-Terphenyl            | 46  |      | "     | 50.0 |      | 91.4 | 59-131 |      |    |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result                                    | Reporting Limit | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---------------------------------|---|-----------------|----------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B7I1903 - NO PREP</b>  |   |                 |          |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1903-DUP1)</b> | <b>Source: Y709211-01</b>                 |                 |          |             | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |             |      |           |       |
| pH                              | 6.72                                      |                 | pH Units |             | 6.95                                      |      |             | 3.37 | 25        |       |
| <b>Batch B7I1904 - NO PREP</b>  |   |                 |          |             |   |      |             |      |           |       |
| <b>Blank (B7I1904-BLK1)</b>     | Prepared: 09/19/2017 Analyzed: 09/19/2017 |                 |          |             |   |      |             |      |           |       |
| Specific Conductance (EC)       | 0.00550                                   |                 | mmhos/cm |             |   |      |             |      |           |       |
| <b>Duplicate (B7I1904-DUP1)</b> | <b>Source: Y709211-01</b>                 |                 |          |             | Prepared: 09/19/2017 Analyzed: 09/19/2017 |      |             |      |           |       |
| Specific Conductance (EC)       | 0.0299                                    |                 | mmhos/cm |             | 0.0324                                    |      |             | 8.03 | 25        |       |

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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September 25, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Guy Jones GU 1**

**Project Number - [none]**

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. September 22, 2017. This project is associated with Origins project number Y709313-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| E05@13'   | Y709313-01    | Soil   | September 22, 2017 14:00 | 09/22/2017 17:10 |
| S07@13'   | Y709313-02    | Soil   | September 22, 2017 14:02 | 09/22/2017 17:10 |
| N05@13'   | Y709313-03    | Soil   | September 22, 2017 14:04 | 09/22/2017 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.*

Jen Pellegrini For Noelle Doyle Mathis, President

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

Client: APC

Address: \_\_\_\_\_

Project Manager: Bob Cornetz

Project Name: Buy Jones GU 1

Project Number: \_\_\_\_\_

Samples Collected By: Alan Chapin

Telephone Number: \_\_\_\_\_

Email Address: lcornetz@tajima-gu.com

page 1 of 1

| Sample ID Description            | Date Sampled  | Time Sampled | # of Containers | Preservative                    |     |                  |       | Matrix        |            | Analysis  |       |       |       | Sample Instructions |
|----------------------------------|---------------|--------------|-----------------|---------------------------------|-----|------------------|-------|---------------|------------|---|-------|-------|-------|---------------------|
|                                  |               |              |                 | Unpreserved                     | HCl | HNO <sub>3</sub> | Other | Groundwater   | Soil       | Air Summ #  | Other | GC/MS | GC/MS |                     |
| E05 e13'                         | 9/22/17       | 1400         | 2               |                                 |     |                  |       |               |            |   |       |       |       | 1                   |
| S07 e13'                         | ↓             | 1402         | 2               |                                 |     |                  |       |               |            |   |       |       |       | 2                   |
| N05 e13'                         | ↓             | 1404         | 2               |                                 |     |                  |       |               |            |   |       |       |       | 3                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 4                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 5                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 6                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 7                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 8                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 9                   |
|                                  |               |              |                 |                                 |     |                  |       |               |            |   |       |       |       | 10                  |
| Relinquished By: <u>Wm Jones</u> | Date: 9/22/17 | Time: 1710   |                 | Received By: <u>[Signature]</u> |     |                  |       | Date: 9/22/17 | Time: 1710 | Turnaround Time: <u>same day</u> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> |       |       |       |                     |
| Relinquished By: _____           | Date: _____   | Time: _____  |                 | Received By: _____              |     |                  |       | Date: 9/22/17 | Time: 1710 |   |       |       |       |                     |

Temp Received: 4.2°C Date Results Needed

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 - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 70933

Client: Tasman

Client Project ID: KMG - Guy Jones GU 1

Checklist Completed by: DAH

Shipped Via: Pick-up

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

Date/time completed: 9-22-12 1533

Airbill #: 112

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

Cooler Number/Temperature: 1 4.2 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <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 <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <u>pH</u>         |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <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 type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 9-22-12 17:00

1533

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 - Guy Jones GU 1

E05@13'  
9/22/2017 2:00:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709313-01 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 164 | 25.0 | mg/kg | 1 | B7I2205 | 09/22/2017 | 09/23/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 91.8 % | 59-131 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |   |            |   |
|-----------------------------|-------|-------|-------|----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 99.1  | 5.00  | mg/kg | 25 | B7I2204 | " | 09/22/2017 |   |
| Benzene                     | 0.170 | 0.050 | "     | "  | "       | " | "          |   |
| Toluene                     | ND    | 0.050 | "     | "  | "       | " | "          | U |
| Ethylbenzene                | 0.415 | 0.050 | "     | "  | "       | " | "          |   |
| Xylenes, total              | 3.54  | 0.050 | "     | "  | "       | " | "          |   |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 92.4 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 96.8 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 112 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.71 |  | pH Units | 1 | B7I2206 | 09/22/2017 | 09/22/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.278 |  | mmhos/cm | " | B7I2207 | 09/22/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**S07@13'**  
**9/22/2017 2:02:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y709313-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B7I2205 | 09/22/2017 | 09/23/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

*Surrogate: o-Terphenyl* 81.9 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |              |       |       |   |         |   |            |   |
|-----------------------------|--------------|-------|-------|---|---------|---|------------|---|
| Gasoline Range Hydrocarbons | <b>2.46</b>  | 0.200 | mg/kg | 1 | B7I2204 | " | 09/23/2017 |   |
| Benzene                     | <b>0.012</b> | 0.002 | "     | " | "       | " | "          |   |
| Toluene                     | ND           | 0.002 | "     | " | "       | " | "          | U |
| Ethylbenzene                | <b>0.028</b> | 0.002 | "     | " | "       | " | "          |   |
| Xylenes, total              | <b>0.067</b> | 0.002 | "     | " | "       | " | "          |   |

*Surrogate: 1,2-Dichloroethane-d4* 97.7 % 70-130 " " "  
*Surrogate: Toluene-d8* 97.0 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 108 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |             |  |          |   |         |            |            |  |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | <b>8.96</b> |  | pH Units | 1 | B7I2206 | 09/22/2017 | 09/22/2017 |  |
|----|-------------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |              |  |          |   |         |            |   |  |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | <b>0.168</b> |  | mmhos/cm | " | B7I2207 | 09/22/2017 | " |  |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

N05@13'  
9/22/2017 2:04:00PM

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

Origins Laboratory, Inc.  
Y709313-03 (Soil)

## DRO/RRO by EPA8015C

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 503 | 25.0 | mg/kg | 1 | B7I2205 | 09/22/2017 | 09/23/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 94.9 % 59-131 " " "

## GBTEX by EPA 8260C

|                             |       |       |       |     |         |   |            |   |
|-----------------------------|-------|-------|-------|-----|---------|---|------------|---|
| Gasoline Range Hydrocarbons | 899   | 50.0  | mg/kg | 250 | B7I2204 | " | 09/25/2017 |   |
| Benzene                     | 0.460 | 0.050 | "     | 25  | "       | " | 09/23/2017 |   |
| Toluene                     | ND    | 0.050 | "     | "   | "       | " | "          | U |
| Ethylbenzene                | 4.16  | 0.050 | "     | "   | "       | " | "          |   |
| Xylenes, total              | 46.7  | 0.498 | "     | 250 | "       | " | 09/25/2017 |   |

Surrogate: 1,2-Dichloroethane-d4 90.9 % 70-130 " " 09/23/2017  
Surrogate: Toluene-d8 84.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " 09/25/2017

## pH in Soil by EPA 9045D

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 10.0 |  | pH Units | 1 | B7I2206 | 09/22/2017 | 09/22/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

## Specific Conductance by Modified 9050A

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.196 |  | mmhos/cm | " | B7I2207 | 09/22/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B712204 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B712204-BLK1)</b>            |        |                 |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 65     |                 | ug/kg | 62.5        |   | 104  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 60     |                 | "     | 62.5        |   | 96.4 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 64     |                 | "     | 62.5        |   | 102  | 70-130      |     |           |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B712204 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B712204-BLK2)</b>            |        |                 |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 65     |                 | ug/kg | 62.5        |   | 104  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 61     |                 | "     | 62.5        |   | 97.6 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 65     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B712204 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B712204-BS1)</b>               |        |                 |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |     |           |       |
| Benzene                                | 0.100  | 0.002           | mg/kg | 0.100       |   | 100  | 77.1-124    |     |           |       |
| Toluene                                | 0.092  | 0.002           | "     | 0.100       |   | 92.1 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.090  | 0.002           | "     | 0.100       |   | 90.1 | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.175  | 0.004           | "     | 0.200       |   | 87.4 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.087  | 0.002           | "     | 0.100       |   | 86.7 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 62     |                 | ug/kg | 62.5        |   | 99.3 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 60     |                 | "     | 62.5        |   | 96.2 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 98.7 | 70-130      |     |           |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B712204 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B712204-BS2)</b>               |        |                 |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |     |           |       |
| Benzene                                | 0.104  | 0.002           | mg/kg | 0.100       |   | 104  | 77.1-124    |     |           |       |
| Toluene                                | 0.095  | 0.002           | "     | 0.100       |   | 95.0 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.095  | 0.002           | "     | 0.100       |   | 94.9 | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.182  | 0.004           | "     | 0.200       |   | 91.2 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.091  | 0.002           | "     | 0.100       |   | 91.4 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 62     |                 | ug/kg | 62.5        |   | 99.5 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 59     |                 | "     | 62.5        |   | 94.7 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                 | "     | 62.5        |   | 97.6 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B712204 - EPA 5030 (soil)

| Matrix Spike (B712204-MS1)       |       | Source: Y709308-02 |       |       | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.095 | 0.002              | mg/kg | 0.100 | ND  | 95.0 | 71.8-126 |  |  |  |
| Toluene                          | 0.085 | 0.002              | "     | 0.100 | ND  | 85.4 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.082 | 0.002              | "     | 0.100 | ND  | 81.8 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.156 | 0.004              | "     | 0.200 | ND  | 77.9 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.078 | 0.002              | "     | 0.100 | ND  | 77.9 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 63    |                    | ug/kg | 62.5  |   | 101  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 61    |                    | "     | 62.5  |   | 98.4 | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 61    |                    | "     | 62.5  |   | 98.1 | 70-130   |  |  |  |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B712204 - EPA 5030 (soil)**

| Matrix Spike (B712204-MS2)       |       | Source: Y709308-04 |       |       | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.103 | 0.002              | mg/kg | 0.100 | ND  | 103  | 71.8-126 |  |  |  |
| Toluene                          | 0.096 | 0.002              | "     | 0.100 | ND  | 95.7 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.091 | 0.002              | "     | 0.100 | ND  | 91.0 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.176 | 0.004              | "     | 0.200 | ND  | 88.0 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.088 | 0.002              | "     | 0.100 | ND  | 88.2 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 61    |                    | ug/kg | 62.5  |   | 98.0 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 61    |                    | "     | 62.5  |   | 97.2 | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 61    |                    | "     | 62.5  |   | 98.2 | 70-130   |  |  |  |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B712204 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |       |           |       |
| <b>Matrix Spike Dup (B712204-MSD1)</b> |        | <b>Source: Y709308-02</b> |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |       |           |       |
| Benzene                                | 0.091  | 0.002                     | mg/kg | 0.100       | ND  | 90.9 | 71.8-126    | 4.35  | 11.3      |       |
| Toluene                                | 0.083  | 0.002                     | "     | 0.100       | ND  | 82.6 | 65.1-130    | 3.36  | 15.4      |       |
| Ethylbenzene                           | 0.081  | 0.002                     | "     | 0.100       | ND  | 81.3 | 62.2-130    | 0.662 | 19.6      |       |
| m,p-Xylene                             | 0.152  | 0.004                     | "     | 0.200       | ND  | 75.8 | 46.5-137    | 2.79  | 19.2      |       |
| o-Xylene                               | 0.078  | 0.002                     | "     | 0.100       | ND  | 78.5 | 54.2-134    | 0.742 | 17.9      |       |
| Surrogate: 1,2-Dichloroethane-d4       | 63     |                           | ug/kg | 62.5        |   | 101  | 70-130      |       |           |       |
| Surrogate: Toluene-d8                  | 60     |                           | "     | 62.5        |   | 96.5 | 70-130      |       |           |       |
| Surrogate: 4-Bromofluorobenzene        | 64     |                           | "     | 62.5        |   | 102  | 70-130      |       |           |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B712204 - EPA 5030 (soil)**

| Matrix Spike Dup (B712204-MSD2)  |       | Source: Y709308-04 |       |       | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |          |      |      |       |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|------|------|-------|
| Benzene                          | 0.092 | 0.002              | mg/kg | 0.100 | ND  | 91.6 | 71.8-126 | 12.0 | 11.3 | QR-02 |
| Toluene                          | 0.082 | 0.002              | "     | 0.100 | ND  | 82.3 | 65.1-130 | 15.0 | 15.4 |       |
| Ethylbenzene                     | 0.076 | 0.002              | "     | 0.100 | ND  | 76.4 | 62.2-130 | 17.5 | 19.6 |       |
| m,p-Xylene                       | 0.146 | 0.004              | "     | 0.200 | ND  | 73.2 | 46.5-137 | 18.3 | 19.2 |       |
| o-Xylene                         | 0.074 | 0.002              | "     | 0.100 | ND  | 74.3 | 54.2-134 | 17.1 | 17.9 |       |
| Surrogate: 1,2-Dichloroethane-d4 | 62    |                    | ug/kg | 62.5  |   | 98.9 | 70-130   |      |      |       |
| Surrogate: Toluene-d8            | 60    |                    | "     | 62.5  |   | 95.2 | 70-130   |      |      |       |
| Surrogate: 4-Bromofluorobenzene  | 63    |                    | "     | 62.5  |   | 100  | 70-130   |      |      |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B712205 - EPA 3550B**

**Blank (B712205-BLK1)**

Prepared: 09/22/2017 Analyzed: 09/22/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 37 |      | "     | 50.0 |  | 73.3 | 59-131 |  |  |   |

**Blank (B712205-BLK2)**

Prepared: 09/22/2017 Analyzed: 09/22/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 42 |      | "     | 50.0 |  | 83.7 | 59-131 |  |  |   |

**LCS (B712205-BS1)**

Prepared: 09/22/2017 Analyzed: 09/22/2017

|                                   |     |      |       |      |  |      |        |  |  |  |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 836 | 50.0 | mg/kg | 1000 |  | 83.6 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 872 | 200  | "     | 1000 |  | 87.2 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 39  |      | "     | 50.0 |  | 77.6 | 59-131 |  |  |  |

**LCS (B712205-BS2)**

Prepared: 09/22/2017 Analyzed: 09/22/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 933  | 50.0 | mg/kg | 1000 |  | 93.3 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1010 | 200  | "     | 1000 |  | 101  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 45   |      | "     | 50.0 |  | 90.6 | 59-131 |  |  |  |

**Matrix Spike (B712205-MS1)**

**Source: Y709308-02**

Prepared: 09/22/2017 Analyzed: 09/25/2017

|                                   |      |      |       |      |     |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|-----|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1410 | 50.0 | mg/kg | 1000 | 275 | 113 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 1550 | 200  | "     | 1000 | 283 | 126 | 47-133 |  |  |  |

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 - Guy Jones GU 1

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD    | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|--------|-----------|-------|
| <b>Batch B7I2205 - EPA 3550B</b>       |        |                           |       |             |   |      |             |        |           |       |
| <b>Matrix Spike (B7I2205-MS1)</b>      |        | <b>Source: Y709308-02</b> |       |             | Prepared: 09/22/2017 Analyzed: 09/25/2017 |      |             |        |           |       |
| Surrogate: o-Terphenyl                 | 54     |                           | mg/kg | 50.0        |   | 108  | 59-131      |        |           |       |
| <b>Matrix Spike (B7I2205-MS2)</b>      |        | <b>Source: Y709308-04</b> |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |        |           |       |
| Diesel (C10-C28)                       | 1040   | 50.0                      | mg/kg | 1000        | 204                                       | 83.2 | 53-125      |        |           |       |
| Residual Range Organics (C28-C40)      | 1130   | 200                       | "     | 1000        | 302                                       | 82.9 | 47-133      |        |           |       |
| Surrogate: o-Terphenyl                 | 49     |                           | "     | 50.0        |   | 97.3 | 59-131      |        |           |       |
| <b>Matrix Spike Dup (B7I2205-MSD1)</b> |        | <b>Source: Y709308-02</b> |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |        |           |       |
| Diesel (C10-C28)                       | 1410   | 50.0                      | mg/kg | 1000        | 275                                       | 113  | 53-125      | 0.0623 | 20        |       |
| Residual Range Organics (C28-C40)      | 1510   | 200                       | "     | 1000        | 283                                       | 123  | 47-133      | 2.87   | 20        |       |
| Surrogate: o-Terphenyl                 | 51     |                           | "     | 50.0        |   | 102  | 59-131      |        |           |       |
| <b>Matrix Spike Dup (B7I2205-MSD2)</b> |        | <b>Source: Y709308-04</b> |       |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |        |           |       |
| Diesel (C10-C28)                       | 1160   | 50.0                      | mg/kg | 1000        | 204                                       | 95.9 | 53-125      | 14.2   | 20        |       |
| Residual Range Organics (C28-C40)      | 1200   | 200                       | "     | 1000        | 302                                       | 90.2 | 47-133      | 8.51   | 20        |       |
| Surrogate: o-Terphenyl                 | 47     |                           | "     | 50.0        |   | 94.4 | 59-131      |        |           |       |

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result                                    | Reporting Limit | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------|---|-----------------|----------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B7I2206 - NO PREP</b>  |   |                 |          |             |   |      |             |       |           |       |
| <b>Duplicate (B7I2206-DUP1)</b> | <b>Source: Y709308-01</b>                 |                 |          |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |       |           |       |
| pH                              | 9.14                                      |                 | pH Units |             | 9.18                                      |      |             | 0.437 | 25        |       |
| <b>Duplicate (B7I2206-DUP2)</b> | <b>Source: Y709315-02</b>                 |                 |          |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |       |           |       |
| pH                              | 8.84                                      |                 | pH Units |             | 8.89                                      |      |             | 0.564 | 25        |       |
| <b>Batch B7I2207 - NO PREP</b>  |   |                 |          |             |   |      |             |       |           |       |
| <b>Blank (B7I2207-BLK1)</b>     | Prepared: 09/22/2017 Analyzed: 09/22/2017 |                 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00210                                   |                 | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (B7I2207-DUP1)</b> | <b>Source: Y709308-01</b>                 |                 |          |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 1.21                                      |                 | mmhos/cm |             | 1.27                                      |      |             | 4.89  | 25        |       |
| <b>Duplicate (B7I2207-DUP2)</b> | <b>Source: Y709315-01</b>                 |                 |          |             | Prepared: 09/22/2017 Analyzed: 09/22/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.0335                                    |                 | mmhos/cm |             | 0.0346                                    |      |             | 3.23  | 25        |       |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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October 05, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Guy Jones GU 1

Project Number - [none]

Attached are your analytical results for KMG - Guy Jones GU 1 received by Origins Laboratory, Inc. October 04, 2017. This project is associated with Origins project number Y710074-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled          | Date Received    |
|-----------|---------------|--------|-----------------------|------------------|
| E06@13'   | Y710074-01    | Soil   | October 4, 2017 14:52 | 10/04/2017 17:17 |
| N06@13'   | Y710074-02    | Soil   | October 4, 2017 14:54 | 10/04/2017 17:17 |

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 - Guy Jones GU 1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

1710074

page 1 of 1

Client: APC

Address: \_\_\_\_\_

Project Manager: Bob Lornez

Project Name: Guy Jones GV 1

Project Number: AP

Telephone Number: \_\_\_\_\_

Samples Collected By: Alex C

Email Address: rlornez@txsman-gao.com

| Sample ID Description              | Date Sampled          | Time Sampled      | # of Containers                 | Preservative          |                   |   |       | Matrix      |      |                         | Analysis   | Sample Instructions |
|------------------------------------|-----------------------|-------------------|---------------------------------|-----------------------|-------------------|---|-------|-------------|------|-------------------------|--|---------------------|
|                                    |                       |                   |                                 | Unpreserved           | HCl               | HNO <sub>3</sub>  | Other | Groundwater | Soil | Air Summa<br>Canister # |  |                     |
| E06e13'                            | 10/14/17              | 1452              | 2                               |                       |                   |   |       |             |      |                         | CDTEx<br>8260<br>OK01020<br>BC PH<br>SAR<br>(on H2O) | 1                   |
| N06e13'                            | 10/14/17              | 1454              | 2                               |                       |                   |   |       |             |      |                         | ✓ R R R Y  | 2                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 3                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 4                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 5                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 6                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 7                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 8                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 9                   |
|                                    |                       |                   |                                 |                       |                   |   |       |             |      |                         |  | 10                  |
| Relinquished By: <u>Bob Lornez</u> | Date: <u>10/14/17</u> | Time: <u>1704</u> | Received By: <u>[Signature]</u> | Date: _____           | Time: _____       | Turnaround Time: <u>Same Day X</u><br>24 Hr <input type="checkbox"/><br>48 Hr <input type="checkbox"/><br>72 Hr <input type="checkbox"/><br>Standard <input type="checkbox"/> |       |             |      |                         |  |                     |
| Relinquished By: _____             | Date: _____           | Time: _____       | Received By: _____              | Date: <u>10/14/17</u> | Time: <u>1704</u> |   |       |             |      |                         |  |                     |

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received: 57.6

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

*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 - Guy Jones GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1710074

Client: Tasman

Client Project ID: MR. Guy Jones GU 1

Checklist Completed by: DLK

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

Date/time completed: 10-4-12 1737

Airbill #: 104

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

Cooler Number/Temperature: 1 / 5.7 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

| Requirement Description  | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?  | <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 <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <u>PH</u>         |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?  | <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 type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Additional Comments (if any):  |                                     |                                     |                                     |                   |

<sup>(1)</sup> 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

10-4-12 1737  
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 - Guy Jones GU 1

E06@13'  
10/4/2017 2:52:00PM

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

**Origins Laboratory, Inc.**  
**Y710074-01 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 148 | 25.0 | mg/kg | 1 | B7J0407 | 10/04/2017 | 10/04/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 83.8 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |    |         |            |            |   |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 131   | 5.00  | mg/kg | 25 | B7J0406 | 10/04/2017 | 10/05/2017 |   |
| Benzene                     | 0.064 | 0.050 | "     | "  | "       | "          | "          |   |
| Toluene                     | ND    | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | 0.348 | 0.050 | "     | "  | "       | "          | "          |   |
| Xylenes, total              | 4.72  | 0.050 | "     | "  | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 91.7 % 70-130 " " 10/04/2017  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.04 |  | pH Units | 1 | B7J0408 | 10/04/2017 | 10/04/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.170 |  | mmhos/cm | " | B7J0409 | 10/04/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**N06@13'**  
**10/4/2017 2:54:00PM**

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

**Origins Laboratory, Inc.**  
**Y710074-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B7J0407 | 10/04/2017 | 10/04/2017 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 70.5 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |      |       |       |    |         |            |            |   |
|-----------------------------|------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 9.53 | 5.00  | mg/kg | 25 | B7J0406 | 10/04/2017 | 10/04/2017 |   |
| Benzene                     | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND   | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND   | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 88.9 % 70-130 " " "  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.81 |  | pH Units | 1 | B7J0408 | 10/04/2017 | 10/04/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |   |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.250 |  | mmhos/cm | " | B7J0409 | 10/04/2017 | " |  |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B7J0406 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B7J0406-BLK1)</b>            |        |                 |       |             | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 57     |                 | ug/kg | 62.5        |   | 90.4 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 65     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 99.5 | 70-130      |     |           |       |

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B7J0406 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B7J0406-BS1)</b>               |        |                 |       |             | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |             |     |           |       |
| Benzene                                | 0.090  | 0.002           | mg/kg | 0.100       |   | 89.7 | 77.1-124    |     |           |       |
| Toluene                                | 0.093  | 0.002           | "     | 0.100       |   | 93.2 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.101  | 0.002           | "     | 0.100       |   | 101  | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.210  | 0.004           | "     | 0.200       |   | 105  | 76.6-124    |     |           |       |
| o-Xylene                               | 0.098  | 0.002           | "     | 0.100       |   | 98.5 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 55     |                 | ug/kg | 62.5        |   | 87.4 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 60     |                 | "     | 62.5        |   | 96.0 | 70-130      |     |           |       |

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B7J0406 - EPA 5030 (soil)**

| Matrix Spike (B7J0406-MS1)       |       | Source: Y710072-02 |       |       | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.085 | 0.002              | mg/kg | 0.100 | ND  | 85.3 | 71.8-126 |  |  |  |
| Toluene                          | 0.089 | 0.002              | "     | 0.100 | ND  | 89.1 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.098 | 0.002              | "     | 0.100 | ND  | 97.6 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.199 | 0.004              | "     | 0.200 | ND  | 99.6 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.095 | 0.002              | "     | 0.100 | ND  | 95.0 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 55    |                    | ug/kg | 62.5  |   | 88.7 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 65    |                    | "     | 62.5  |   | 103  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 61    |                    | "     | 62.5  |   | 97.0 | 70-130   |  |  |  |

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

**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 B7J0406 - EPA 5030 (soil)**

| Matrix Spike Dup (B7J0406-MSD1)  |       | Source: Y710072-02 |       |       | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |          |      |      |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|------|------|--|
| Benzene                          | 0.081 | 0.002              | mg/kg | 0.100 | ND  | 80.9 | 71.8-126 | 5.37 | 11.3 |  |
| Toluene                          | 0.082 | 0.002              | "     | 0.100 | ND  | 82.4 | 65.1-130 | 7.82 | 15.4 |  |
| Ethylbenzene                     | 0.092 | 0.002              | "     | 0.100 | ND  | 92.1 | 62.2-130 | 5.86 | 19.6 |  |
| m,p-Xylene                       | 0.187 | 0.004              | "     | 0.200 | ND  | 93.6 | 46.5-137 | 6.20 | 19.2 |  |
| o-Xylene                         | 0.088 | 0.002              | "     | 0.100 | ND  | 88.4 | 54.2-134 | 7.26 | 17.9 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 57    |                    | ug/kg | 62.5  |   | 90.7 | 70-130   |      |      |  |
| Surrogate: Toluene-d8            | 64    |                    | "     | 62.5  |   | 102  | 70-130   |      |      |  |
| Surrogate: 4-Bromofluorobenzene  | 61    |                    | "     | 62.5  |   | 97.8 | 70-130   |      |      |  |

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Project: KMG - Guy Jones GU 1

## 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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B7J0407 - EPA 3550B

#### Blank (B7J0407-BLK1)

Prepared: 10/04/2017 Analyzed: 10/04/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 48 |      | "     | 50.0 |  | 95.4 | 59-131 |  |  |   |

#### LCS (B7J0407-BS1)

Prepared: 10/04/2017 Analyzed: 10/04/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1040 | 50.0 | mg/kg | 1000 |  | 104  | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 991  | 200  | "     | 1000 |  | 99.1 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 47   |      | "     | 50.0 |  | 93.4 | 59-131 |  |  |  |

#### Matrix Spike (B7J0407-MS1)

Source: Y710072-02

Prepared: 10/04/2017 Analyzed: 10/04/2017

|                                   |      |      |       |      |      |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1120 | 50.0 | mg/kg | 1000 | ND   | 112 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 1070 | 200  | "     | 1000 | 23.0 | 105 | 47-133 |  |  |  |
| Surrogate: o-Terphenyl            | 52   |      | "     | 50.0 |      | 104 | 59-131 |  |  |  |

#### Matrix Spike Dup (B7J0407-MSD1)

Source: Y710072-02

Prepared: 10/04/2017 Analyzed: 10/04/2017

|                                   |     |      |       |      |      |      |        |      |    |       |
|-----------------------------------|-----|------|-------|------|------|------|--------|------|----|-------|
| Diesel (C10-C28)                  | 898 | 50.0 | mg/kg | 1000 | ND   | 89.8 | 53-125 | 22.5 | 20 | QR-02 |
| Residual Range Organics (C28-C40) | 950 | 200  | "     | 1000 | 23.0 | 92.7 | 47-133 | 12.4 | 20 |       |
| Surrogate: o-Terphenyl            | 43  |      | "     | 50.0 |      | 85.9 | 59-131 |      |    |       |

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Guy Jones GU 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte                         | Result  | Reporting Limit                           | Units    | Spike Level | Source Result                             | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B7J0408 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Duplicate (B7J0408-DUP1)</b> |         | <b>Source: Y710072-01</b>                 |          |             | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |             |       |           |       |
| pH                              | 7.95    |   | pH Units |             | 8.02                                      |      |             | 0.877 | 25        |       |
| <b>Batch B7J0409 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Blank (B7J0409-BLK1)</b>     |         | Prepared: 10/04/2017 Analyzed: 10/04/2017 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00200 |   | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (B7J0409-DUP1)</b> |         | <b>Source: Y710072-01</b>                 |          |             | Prepared: 10/04/2017 Analyzed: 10/04/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.264   |   | mmhos/cm |             | 0.222                                     |      |             | 17.2  | 25        |       |

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Guy Jones GU 1

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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