

August 03, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Adamson Ernie F GU #X1 Project Number - [none]

Attached are your analytical results for KMG - Adamson Ernie F GU #X1 received by Origins Laboratory, Inc. August 02, 2016. This project is associated with Origins project number X608021-01.

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 - Adamson Ernie F GU #X1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| N01@18 | X608021-01 | Soil | August 2, 2016 10:55 | 08/02/2016 16:45 |
| N02@18 | X608021-02 | Soil | August 2, 2016 10:10 | 08/02/2016 16:45 |
| W02@18 | X608021-03 | Soil | August 2, 2016 11:05 | 08/02/2016 16:45 |
| E02@18 | X608021-04 | Soil | August 2, 2016 10:30 | 08/02/2016 16:45 |
| B02@15 | X608021-05 | Soil | August 2, 2016 10:45 | 08/02/2016 16:45 |
| B03@19 | X608021-06 | Soil | August 2, 2016 9:55 | 08/02/2016 16:45 |
| B04@19 | X608021-07 | Soil | August 2, 2016 10:15 | 08/02/2016 16:45 |

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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page of

ORIGINS
LABORATORY, INC

Client: Tasman Geosciences

Address: _____

Telephone Number: (352) 262-9910

Email Address: info@tasman-geo.com

Project Manager: Bob Cornez

Project Name: Adamson Ernie F GU #X1

Project Number: _____

Samples Collected By: Kate Foremark

X608021

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | | |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|------------|----------|---------------------|-------|--|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summ # | | | Other | |
| NO2018 | 8/21/14 | 1055 | 2 | X | | | | X | | | | | 1 | |
| NO2018 | 8/21/14 | 1010 | 2 | X | | | | X | | | | | 2 | |
| NO2018 | 8/21/14 | 1105 | 2 | X | | | | X | | | | | 3 | |
| EO2018 | 8/21/14 | 1030 | 2 | X | | | | X | | | | | 4 | |
| BO2015 | 8/21/14 | 1045 | 2 | X | | | | X | | | | | 5 | |
| BO2019 | 8/21/14 | 0955 | 2 | X | | | | X | | | | | 6 | |
| BO1019 | 8/21/14 | 1015 | 2 | X | | | | X | | | | | 7 | |
| | | | | | | | | | | | | | 8 | |
| | | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | | 10 | |

Relinquished By:  Date: 8/21/14 Time: 1510
 Relinquished By:  Date: 8.2.16 Time: 1645

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

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 - Adamson Ernie F GU #X1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X608021

Client: Tasman Geosciences
 Client Project ID: Adamson Ernie F GU #X1

Checklist Completed by: J. Henderson

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

Date/time completed: 8/2/12 1710

Airbill #: UA

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

Cooler Number/Temperature: 1 / 13.1 °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 ≤ 8°C ⁽¹⁾ ? | | X | | Sample <u>Sanctuary</u> |
| Is there ice present (document if blue ice is used) | X | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Were all samples received intact ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | X | | | <u>PH</u> |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | X | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | X | |
| Additional Comments (if any): | | | | |

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

Reviewed by: JPH (Project Manager)

Date/Time Reviewed: 8/3/12

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

N01@18
8/2/2016 10:55:00AM

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

Origins Laboratory, Inc.
X608021-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 65.0 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | U |
| 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 103 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 6.95 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0341 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

N02@18
8/2/2016 10:10:00AM

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

Origins Laboratory, Inc.
X608021-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 76.7 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | U |
| 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 104 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.37 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0209 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

W02@18
8/2/2016 11:05:00AM

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

Origins Laboratory, Inc.
X608021-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

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

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | U |
| 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 103 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.38 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0703 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

E02@18
8/2/2016 10:30:00AM

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

Origins Laboratory, Inc.
X608021-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 61.0 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | U |
| 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 103 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.53 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0810 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

B02@15
8/2/2016 10:45:00AM

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

Origins Laboratory, Inc.
X608021-05 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 71.0 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | U |
| 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 103 % 70-130 " " "
Surrogate: Toluene-d8 99.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.15 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.302 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

B03@19
8/2/2016 9:55:00AM

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

Origins Laboratory, Inc.
X608021-06 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 462 | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 87.1 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 373 | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | |
| Benzene | 0.054 | 0.050 | " | " | " | " | " | |
| Toluene | 1.18 | 0.050 | " | " | " | " | " | |
| Ethylbenzene | 1.01 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 23.0 | 0.050 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 106 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.36 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.262 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

B04@19
8/2/2016 10:15:00AM

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

Origins Laboratory, Inc.
X608021-07 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 58.2 | 25.0 | mg/kg | 1 | B6H0202 | 08/02/2016 | 08/03/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 79.6 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 33.4 | 5.00 | mg/kg | 25 | B6H0211 | 08/02/2016 | 08/02/2016 | |
| Benzene | ND | 0.050 | " | " | " | " | " | U |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | " | " | U |
| Xylenes, total | 0.902 | 0.050 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.37 | | pH Units | 1 | B6H0212 | 08/02/2016 | 08/02/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.317 | | mmhos/cm | " | B6H0213 | 08/02/2016 | 08/02/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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 B6H0211 - EPA 5030 (soil)

Blank (B6H0211-BLK1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| 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 | 62 | | " | 62.5 | | 99.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.4 | 70-130 | | | |

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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 B6H0211 - EPA 5030 (soil)

LCS (B6H0211-BS1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.098 | 0.002 | mg/kg | 0.100 | | 98.2 | 77.1-124 | | | |
| Toluene | 0.097 | 0.002 | " | 0.100 | | 96.9 | 74.5-128 | | | |
| Ethylbenzene | 0.097 | 0.002 | " | 0.100 | | 96.7 | 66.4-127 | | | |
| m,p-Xylene | 0.195 | 0.004 | " | 0.200 | | 97.3 | 76.6-124 | | | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | | 101 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | ug/kg | 62.5 | | 97.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 98.1 | 70-130 | | | |

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Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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 B6H0211 - EPA 5030 (soil)

| Matrix Spike (B6H0211-MS1) | Source: X608021-01 | | | Prepared: 08/02/2016 Analyzed: 08/02/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.105 | 0.002 | mg/kg | 0.100 | ND | 105 | 71.8-126 | | | |
| Toluene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 65.1-130 | | | |
| Ethylbenzene | 0.110 | 0.002 | " | 0.100 | ND | 110 | 62.2-130 | | | |
| m,p-Xylene | 0.219 | 0.004 | " | 0.200 | ND | 103 | 46.5-137 | | | |
| o-Xylene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.0 | 70-130 | | | |

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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 B6H0211 - EPA 5030 (soil)

| Matrix Spike Dup (B6H0211-MSD1) | Source: X608021-01 | | | Prepared: 08/02/2016 Analyzed: 08/02/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|-------|------|--|
| Benzene | 0.103 | 0.002 | mg/kg | 0.100 | ND | 103 | 71.8-126 | 1.75 | 11.3 | |
| Toluene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 65.1-130 | 1.95 | 15.4 | |
| Ethylbenzene | 0.109 | 0.002 | " | 0.100 | ND | 109 | 62.2-130 | 0.953 | 19.6 | |
| m,p-Xylene | 0.216 | 0.004 | " | 0.200 | ND | 102 | 46.5-137 | 1.32 | 19.2 | |
| o-Xylene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 54.2-134 | 0.448 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | ug/kg | 62.5 | | 98.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

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 B6H0202 - EPA 3580

Blank (B6H0202-BLK1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 76.8 | 59-131 | | | |

LCS (B6H0202-BS1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28) | 1130 | 50.0 | mg/kg | 1000 | | 113 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 1180 | 200 | " | 1000 | | 118 | 58-124 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 50.0 | | 101 | 59-131 | | | |

LCS Dup (B6H0202-BSD1)

Prepared: 08/02/2016 Analyzed: 08/02/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|------|----|--|
| Diesel (C10-C28) | 1070 | 50.0 | mg/kg | 1000 | | 107 | 64-121 | 5.65 | 20 | |
| Residual Range Organics (C28-C40) | 1110 | 200 | " | 1000 | | 111 | 58-124 | 6.45 | 20 | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 94.8 | 59-131 | | | |

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Adamson Ernie F GU #X1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6H0212 - NO PREP | | | | | | | | | | |
| Duplicate (B6H0212-DUP1) | | Source: X608021-01 | | | Prepared: 08/02/2016 Analyzed: 08/02/2016 | | | | | |
| pH | 6.98 | | pH Units | | 6.95 | | | 0.431 | 25 | |
| Batch B6H0213 - NO PREP | | | | | | | | | | |
| Blank (B6H0213-BLK1) | | Prepared: 08/02/2016 Analyzed: 08/02/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00270 | | mmhos/cm | | | | | | | |
| Duplicate (B6H0213-DUP1) | | Source: X608021-01 | | | Prepared: 08/02/2016 Analyzed: 08/02/2016 | | | | | |
| Specific Conductance (EC) | 0.0326 | | mmhos/cm | | 0.0341 | | | 4.50 | 25 | |

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #X1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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