

November 29, 2018

Mr. Greg Hamilton
Senior Staff HSE Representative
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202

**RE: Sump Closure Report
Amato 12-1, 22-1
API # 05-123-23949, 05-123-22916
Location ID # 305399
Remediation # 12132
SWNW Sec 1-T1N-R66W
Weld County, Colorado**

Dear Mr. Hamilton:

LT Environmental, Inc. (LTE) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct environmental oversight activities at the above-referenced site. The oversight activities included documenting field activities, collecting soil samples, and reviewing laboratory analytical results.

The objective of the soil sampling was to determine if petroleum hydrocarbon impact to subsurface soil is present as a result of operating a produced water sump at the site. The soil sampling activities, laboratory analytical results, and conclusions are summarized below. The general site layout, soil sample location, and sump excavation dimensions are depicted on the Excavation Site Map provided as Figure 1.

On September 12, 2018, following removal of the produced water sump, soil samples were collected from the sidewalls and base of the excavation. The soil samples were field-screened for total volatile organic compounds using a photoionization detector (PID). Soil staining, odor, and/or elevated headspace readings were not observed or identified through PID screening; the highest PID reading recorded was 3.4 parts per million. Based on field screening results, the excavation base soil sample (B01@6') was submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH-diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA Method 9050A. Laboratory analytical results for soil sample B01@6' indicated that BTEX, TPH, pH, and EC concentrations and levels were in full compliance with Colorado Oil and Gas Conservation Commission Table 910-1



allowable levels. The soil sample analytical results are summarized in Table 1 and the laboratory analytical report is attached.

The sump excavation extent measured approximately 18 feet north to south by 22 feet east to west to an approximate depth of 6 feet below ground surface. Groundwater and impacted soil were not encountered in the excavation. A liner was not present beneath the sump at this site. The produced water sump at this facility has been permanently removed. The excavation area was backfilled and contoured to match pre-existing site conditions.

LTE appreciates the opportunity to provide environmental services to Kerr-McGee. Please contact LTE at (303) 433-9788 if you have any questions regarding this Sump Closure Report or if you require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Alex Guy'.

Alexandra Guy
Staff Environmental Scientist

A handwritten signature in black ink, appearing to read 'Brian Sulzberger'.

Brian Sulzberger, P.E., P.G.
Senior Engineer

Attachments



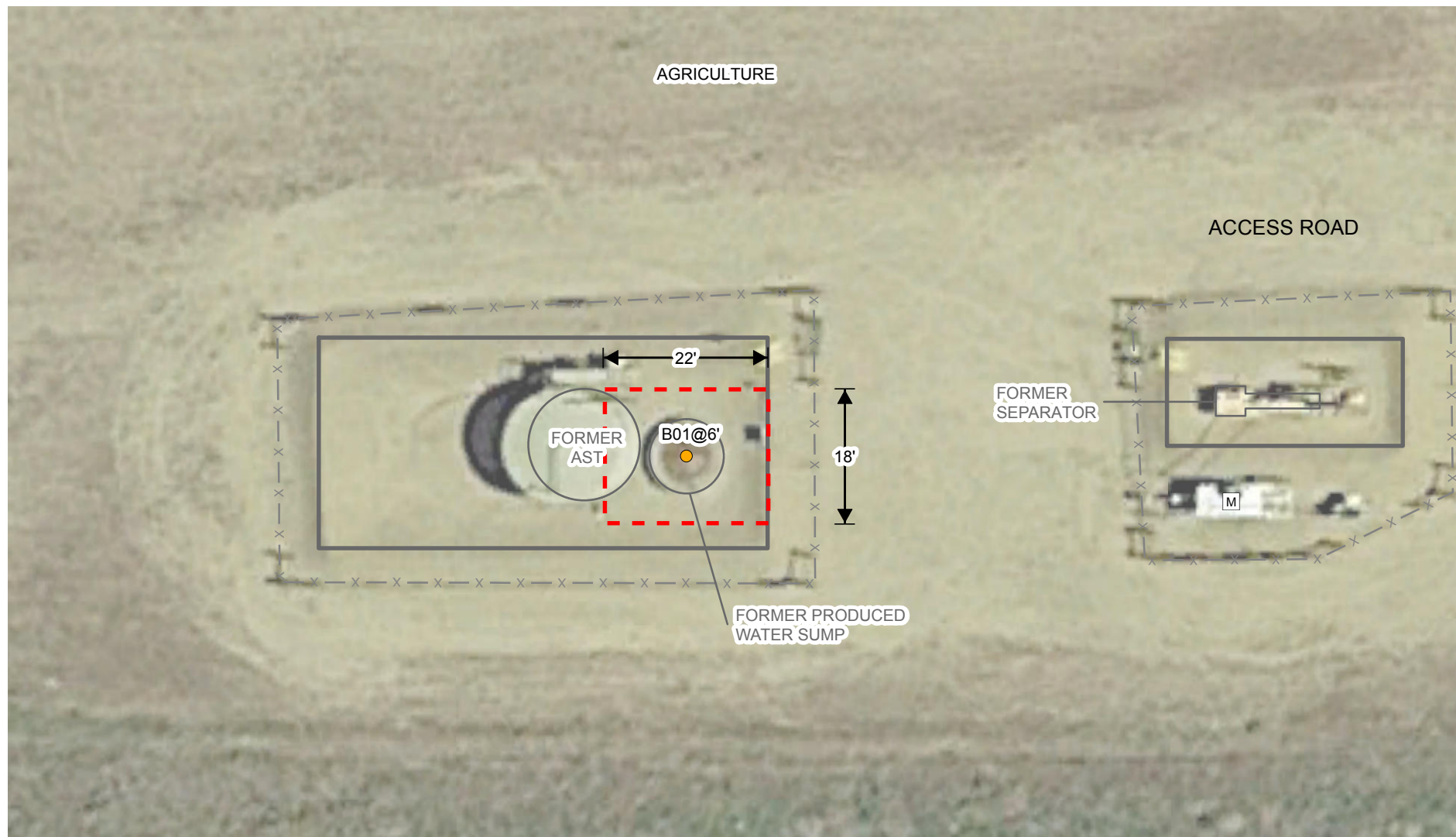


IMAGE COURTESY OF GOOGLE EARTH 2018

LEGEND

- SOIL SAMPLE
 - M METER HOUSE
 - x — x FORMER FENCE
 - EXCAVATION EXTENT
 - FORMER BERM
- AST: ABOVEGROUND STORAGE TANK

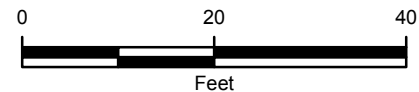


FIGURE 1
EXCAVATION SITE MAP
 AMATO 12-1, 22-1
 SWNW SEC 1-T1N-R66W
 WELD COUNTY, COLORADO
 KERR-MCGEE OIL & GAS ONSHORE LP



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
AMATO 12-1, 22-1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

| Soil Sample ID | Depth (bgs) | Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | DRO (mg/kg) | GRO (mg/kg) | ORO (mg/kg) | pH (su) | Specific Conductance (mmhos/cm) |
|-------------------------------|-------------|------------|-----------------|-----------------|----------------------|-----------------------|-------------|-------------|-------------|------------|---------------------------------|
| B01@6' | 6' | 09/12/2018 | <0.002 | <0.002 | <0.002 | <0.002 | <25.0 | <0.200 | <100 | 6.46 | 0.0790 |
| COGCC Allowable Levels | | | 0.17 | 85 | 100 | 175 | 500* | 500* | 500* | 6-9 | 4 |

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available
ORO - oil range organics
su - standard units
* - Standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level





September 13, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Amato 12-1, 22-1

Project Number - 014218190

Attached are your analytical results for KMG - Amato 12-1, 22-1 received by Origins Laboratory, Inc. September 12, 2018. This project is associated with Origins project number Y809133-01.

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

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

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

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

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

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



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

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: 014218190

Project: KMG - Amato 12-1, 22-1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|--------------------------|------------------|
| B01@6' | Y809133-01 | Soil | September 12, 2018 11:10 | 09/12/2018 16:00 |

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.

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y8A133

page / of /

Client: LT Environmental

Address: _____

Telephone Number: 303 433 9788

Email Address: KMG TEAM.

Project Manager: B Sulzberger

Project Name: Anato 12-1, 22-1

Project Number: 014218190

Samples Collected By: Glenn Thompson

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | | | | Sample Instructions |
|-----------------------|---------------|--------------|-----------------|---------------|------------------|--|-------------|------------|-------|-------|----------|---------|----|----------|---------------------|
| | | | | HCl | HNO ₃ | Other | Groundwater | Air Summ # | Other | GTE X | TPH | CPO/DZG | PB | EG | |
| B01e6' | 9/12/18 | 1110 | 2 | X | | | | X | | | X | X | X | Hold SAR | 1 |
| N01e5' | | 1115 | 2 | X | | | | X | | | | | | Hold | 2 |
| E01e4' | | 1120 | 2 | X | | | | X | | | | | | | 3 |
| S01e4.5' | | 1125 | 2 | X | | | | X | | | | | | | 4 |
| W01e5' | | 1130 | 2 | X | | | | X | | | | | | | 5 |
| B601 | | 1135 | 2 | X | | | | X | | | | | | | 6 |
| | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | 10 |
| Relinquished By: | Date: 9/12/18 | Time: 1600 | Received By: | Date: 9/12/18 | Time: 1600 | Turnaround Time: Same Day <input checked="" type="checkbox"/> 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: | Time: | | | | | | | | | | |

Temp Received: 8.2

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.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4809133

Client: LTE

Client Project ID: KMG - Amato 12-1, 22-1

Checklist Completed by: [Signature]

Shipped Via: FD

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

Date/time completed: 9-12-18

Airbill #: NA

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

Cooler Number/Temperature: 1 / 8.2 °C / _____ °C / _____ °C (Describe) _____ °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 ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | <u>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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | <u>ph</u> |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | | | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

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

Reviewed by (Project Manager) [Signature]

9/12/18
Date/Time Reviewed

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.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

B01@6'

9/12/2018 11:10:00AM

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

Origins Laboratory, Inc.
Y809133-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B811204 | JTD | 09/12/2018 | 09/12/2018 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | JTD | " | " | U |

Surrogate: o-Terphenyl 67.9 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B811207 | JTD | 09/12/2018 | 09/12/2018 | U |
| Benzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 " " "
Surrogate: Toluene-d8 97.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.6 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 6.46 | | pH Units | 1 | B811205 | JTD | 09/12/2018 | 09/12/2018 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | | |
|---------------------------|--------|---------|----------|---|---------|-----|---|---|--|
| Specific Conductance (EC) | 0.0790 | 0.00500 | mmhos/cm | " | B811206 | JTD | " | " | |
|---------------------------|--------|---------|----------|---|---------|-----|---|---|--|

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 B8I1207 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B8I1207-BLK1) | | | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| 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 | 60 | | ug/kg | 62.5 | | 95.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 96.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 95.2 | 70-130 | | | |

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 B8I1207 - EPA 5030 (soil) | | | | | | | | | | |
| LCS (B8I1207-BS1) | | | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Benzene | 0.096 | 0.002 | mg/kg | 0.100 | | 96.4 | 77.1-124 | | | |
| Toluene | 0.089 | 0.002 | " | 0.100 | | 88.6 | 74.5-128 | | | |
| Ethylbenzene | 0.086 | 0.002 | " | 0.100 | | 85.6 | 66.4-127 | | | |
| m,p-Xylene | 0.180 | 0.004 | " | 0.200 | | 90.0 | 76.6-124 | | | |
| o-Xylene | 0.091 | 0.002 | " | 0.100 | | 91.0 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 58 | | ug/kg | 62.5 | | 93.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 B8I1207 - EPA 5030 (soil)

| Matrix Spike (B8I1207-MS1) | | Source: Y809140-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene | 0.090 | 0.002 | mg/kg | 0.100 | 0.0005 | 90.0 | 71.8-126 | | | |
| Toluene | 0.081 | 0.002 | " | 0.100 | ND | 81.0 | 65.1-130 | | | |
| Ethylbenzene | 0.078 | 0.002 | " | 0.100 | ND | 77.7 | 62.2-130 | | | |
| m,p-Xylene | 0.165 | 0.004 | " | 0.200 | ND | 82.5 | 46.5-137 | | | |
| o-Xylene | 0.084 | 0.002 | " | 0.100 | ND | 84.0 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | ug/kg | 62.5 | | 93.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 103 | 70-130 | | | |

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 B8I1207 - EPA 5030 (soil)

| Matrix Spike Dup (B8I1207-MSD1) | | Source: Y809140-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|------|------|--|
| Benzene | 0.095 | 0.002 | mg/kg | 0.100 | 0.0005 | 95.1 | 71.8-126 | 5.45 | 11.3 | |
| Toluene | 0.085 | 0.002 | " | 0.100 | ND | 84.8 | 65.1-130 | 4.63 | 15.4 | |
| Ethylbenzene | 0.083 | 0.002 | " | 0.100 | ND | 83.1 | 62.2-130 | 6.77 | 19.6 | |
| m,p-Xylene | 0.176 | 0.004 | " | 0.200 | ND | 87.8 | 46.5-137 | 6.26 | 19.2 | |
| o-Xylene | 0.089 | 0.002 | " | 0.100 | ND | 88.9 | 54.2-134 | 5.64 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | ug/kg | 62.5 | | 94.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.3 | 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.

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 B8I1204 - EPA 3550B

Blank (B8I1204-BLK1)

Prepared: 09/12/2018 Analyzed: 09/12/2018

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 35 | | " | 50.0 | | 69.1 | 59-131 | | | |

Blank (B8I1204-BLK2)

Prepared: 09/12/2018 Analyzed: 09/12/2018

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 32 | | " | 50.0 | | 63.9 | 59-131 | | | |

LCS (B8I1204-BS1)

Prepared: 09/12/2018 Analyzed: 09/12/2018

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 843 | 50.0 | mg/kg | 1000 | | 84.3 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 891 | 200 | " | 1000 | | 89.1 | 58-124 | | | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 82.8 | 59-131 | | | |

LCS (B8I1204-BS2)

Prepared: 09/12/2018 Analyzed: 09/12/2018

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 757 | 50.0 | mg/kg | 1000 | | 75.7 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 852 | 200 | " | 1000 | | 85.2 | 58-124 | | | |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 75.3 | 59-131 | | | |

Matrix Spike (B8I1204-MS1)

Source: Y809128-09

Prepared: 09/12/2018 Analyzed: 09/12/2018

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28) | 827 | 50.0 | mg/kg | 1000 | 15.8 | 81.1 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 889 | 200 | " | 1000 | 15.1 | 87.4 | 47-133 | | | |

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

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 |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| Batch B811204 - EPA 3550B | | | | | | | | | | |
| Matrix Spike (B811204-MS1) | | Source: Y809128-09 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Surrogate: o-Terphenyl | 39 | | mg/kg | 50.0 | | 78.5 | 59-131 | | | |
| Matrix Spike (B811204-MS2) | | Source: Y809140-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Diesel (C10-C28) | 769 | 50.0 | mg/kg | 1000 | ND | 76.9 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 869 | 200 | " | 1000 | 7.42 | 86.2 | 47-133 | | | |
| Surrogate: o-Terphenyl | 39 | | " | 50.0 | | 78.5 | 59-131 | | | |
| Matrix Spike Dup (B811204-MSD1) | | Source: Y809128-09 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Diesel (C10-C28) | 835 | 50.0 | mg/kg | 1000 | 15.8 | 82.0 | 53-125 | 1.01 | 20 | |
| Residual Range Organics (C28-C40) | 876 | 200 | " | 1000 | 15.1 | 86.0 | 47-133 | 1.53 | 20 | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 81.3 | 59-131 | | | |
| Matrix Spike Dup (B811204-MSD2) | | Source: Y809140-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Diesel (C10-C28) | 739 | 50.0 | mg/kg | 1000 | ND | 73.9 | 53-125 | 3.95 | 20 | |
| Residual Range Organics (C28-C40) | 855 | 200 | " | 1000 | 7.42 | 84.7 | 47-133 | 1.70 | 20 | |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 75.4 | 59-131 | | | |

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218190
Project: KMG - Amato 12-1, 22-1

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B8I1205 - NO PREP | | | | | | | | | | |
| Duplicate (B8I1205-DUP1) | | Source: Y809136-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| pH | 8.18 | | pH Units | | 8.19 | | | 0.122 | 25 | |
| Batch B8I1206 - NO PREP | | | | | | | | | | |
| Blank (B8I1206-BLK1) | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | | | | |
| Specific Conductance (EC) | 0.00260 | 0.00500 | mmhos/cm | | | | | | | |
| Duplicate (B8I1206-DUP1) | | Source: Y809136-01 | | | Prepared: 09/12/2018 Analyzed: 09/12/2018 | | | | | |
| Specific Conductance (EC) | 0.0788 | 0.00500 | mmhos/cm | | 0.0791 | | | 0.380 | 25 | |

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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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Jen Pellegrini For Noelle Doyle Mathis, President