

April 10, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Mulga 3N-33Hz

Project Number - 014211290-374

Attached are your analytical results for KMG - Mulga 3N-33Hz received by Origins Laboratory, Inc. April 02, 2015. This project is associated with Origins project number X504039-01.

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



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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| Off S | X504039-01 | Soil | March 31, 2015 15:00 | 04/02/2015 17:05 |
| Off E | X504039-02 | Soil | March 31, 2015 15:10 | 04/02/2015 17:05 |
| Off N | X504039-03 | Soil | March 31, 2015 15:20 | 04/02/2015 17:05 |
| Off W | X504039-04 | Soil | March 31, 2015 15:30 | 04/02/2015 17:05 |
| Off Comp | X504039-05 | Soil | March 31, 2015 15:35 | 04/02/2015 17:05 |
| Pad Comp | X504039-06 | Soil | March 31, 2015 15:45 | 04/02/2015 17:05 |

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X5041039 Client: LTE
 Client Project ID: Mulga 3N-33Hz
 Checklist Completed by: Jen Pellegrini Shipped Via: Pickup
 Date/time completed: 4/3/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.9 °C _____ °C _____ °C (Describe)
 Thermometer ID: TCB

| Requirement Description | Yes | No | N/A | Comments (if any) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | <u>pH</u> |
| 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) JMP Date/Time Reviewed 4/3/15

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

Off S

3/31/2015 3:00:00PM

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

GEL Laboratories, LLC
X504039-01 (Soil)

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|------|------|-----------|---|---------|------------|------------|---|
| Arsenic | 1.72 | 3.36 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | J |
|---------|------|------|-----------|---|---------|------------|------------|---|

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.

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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

Off E

3/31/2015 3:10:00PM

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

GEL Laboratories, LLC
X504039-02 (Soil)

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|------|------|-----------|---|---------|------------|------------|---|
| Arsenic | 1.47 | 2.71 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | J |
|---------|------|------|-----------|---|---------|------------|------------|---|

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.

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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

Off N

3/31/2015 3:20:00PM

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

GEL Laboratories, LLC
X504039-03 (Soil)

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|------|------|-----------|---|---------|------------|------------|---|
| Arsenic | 1.29 | 2.72 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | J |
|---------|------|------|-----------|---|---------|------------|------------|---|

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.

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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

Off W
3/31/2015 3:30:00PM

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

GEL Laboratories, LLC
X504039-04 (Soil)

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|------|------|-----------|---|---------|------------|------------|---|
| Arsenic | 1.29 | 2.87 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | J |
|---------|------|------|-----------|---|---------|------------|------------|---|

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

Off Comp
3/31/2015 3:35:00PM

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

GEL Laboratories, LLC
X504039-05 (Soil)

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|------------|------------|---|
| Arsenic | 1.04 | 2.71 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | J |
| Barium | 35.5 | 0.452 | " | " | " | " | " | |

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.17 | | pH Units | 1 | 5D06008 | 04/06/2015 | 04/07/2015 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR Metals by SW846 3050B/6010C

| | | | | | | | | |
|-----------|------|------|-----------|---|---------|------------|------------|--|
| Calcium | 4690 | 22.6 | mg/kg dry | 1 | 1468815 | 04/06/2015 | 04/08/2015 | |
| Magnesium | 1000 | 27.1 | " | " | " | " | " | |
| Sodium | 68.8 | 22.6 | " | " | " | " | " | |

Sodium Adsorption Ratio

| | | | | | | | | |
|-------------------------|-------|--|------|---|---------|--|------------|--|
| Sodium Adsorption Ratio | 0.238 | | none | 1 | 1470225 | | 04/09/2015 | |
|-------------------------|-------|--|------|---|---------|--|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0766 | | mmhos/cm | 1 | 5D06009 | 04/06/2015 | 04/07/2015 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

Pad Comp
3/31/2015 3:45:00PM

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

Origins Laboratory, Inc.
X504039-06 (Soil)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|--------------|-------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.002 | mg/kg | 1 | 5D03007 | 04/03/2015 | 04/04/2015 | |
| Toluene | 0.007 | 0.002 | " | " | " | " | " | |
| Ethylbenzene | 0.010 | 0.002 | " | " | " | " | " | |
| Xylenes, total | 0.028 | 0.002 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 106 % | 70-130 | | | " | " | " | |

Metals by SW846 3050B/6010C

| | | | | | | | | |
|---------|-------------|------|-----------|---|---------|------------|------------|--|
| Arsenic | 3.56 | 3.50 | mg/kg dry | 1 | 1468814 | 04/06/2015 | 04/08/2015 | |
| Barium | 2300 | 2.92 | " | 5 | " | " | 04/09/2015 | |

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 8.23 | | pH Units | 1 | 5D06008 | 04/06/2015 | 04/07/2015 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

SAR Metals by SW846 3050B/6010C

| | | | | | | | | |
|-----------|--------------|------|-----------|---|---------|------------|------------|--|
| Calcium | 16000 | 29.2 | mg/kg dry | 1 | 1468815 | 04/06/2015 | 04/08/2015 | |
| Magnesium | 3140 | 35.0 | " | " | " | " | " | |
| Sodium | 805 | 29.2 | " | " | " | " | " | |

Sodium Adsorption Ratio

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

Pad Comp
3/31/2015 3:45:00PM

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

GEL Laboratories, LLC
X504039-06 (Soil)

Sodium Adsorption Ratio

| | | | | | | | | |
|-------------------------|------|--|------|---|---------|--|------------|--|
| Sodium Adsorption Ratio | 1.53 | | none | 1 | 1470225 | | 04/09/2015 | |
|-------------------------|------|--|------|---|---------|--|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.480 | | mmhos/cm | 1 | 5D06009 | 04/06/2015 | 04/07/2015 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

TCLP Metals by 1311/3010A/6010C

| | | | | | | | | |
|---------|----|-------|------|---|---------|------------|------------|---|
| Arsenic | ND | 0.300 | mg/L | 1 | 1469320 | 04/07/2015 | 04/07/2015 | U |
|---------|----|-------|------|---|---------|------------|------------|---|

TPH-Carbon Chain by EPA Method 8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50 | mg/kg | 1 | 5D03008 | 04/03/2015 | 04/08/2015 | |
| Diesel (C10-C28) | ND | 50 | " | " | " | " | " | |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " | |

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 83.6 % | 65-146 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D03007 - EPA 5030 (soil)

Blank (5D03007-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.002 | mg/kg | | | | | | | |
| Toluene | ND | 0.002 | " | | | | | | | |
| Ethylbenzene | ND | 0.002 | " | | | | | | | |
| Xylenes, total | ND | 0.002 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 104 | 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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D03007 - EPA 5030 (soil)

LCS (5D03007-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.096 | 0.002 | mg/kg | 0.100 | | 95.8 | 77.1-124 | | | |
| Toluene | 0.094 | 0.002 | " | 0.100 | | 94.1 | 74.5-128 | | | |
| Ethylbenzene | 0.095 | 0.002 | " | 0.100 | | 94.6 | 66.4-127 | | | |
| m,p-Xylene | 0.190 | 0.004 | " | 0.200 | | 94.9 | 76.6-124 | | | |
| o-Xylene | 0.097 | 0.002 | " | 0.100 | | 97.2 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.1 | 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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D03007 - EPA 5030 (soil)

| Matrix Spike (5D03007-MS1) | Source: X504031-01 | | | Prepared: 04/03/2015 Analyzed: 04/03/2015 | | | | | | |
|----------------------------------|--------------------|-------|-------|-------------------------------------------|-------|------|----------|--|--|--|
| Benzene | 0.109 | 0.002 | mg/kg | 0.100 | ND | 109 | 71.8-126 | | | |
| Toluene | 0.109 | 0.002 | " | 0.100 | ND | 109 | 65.1-130 | | | |
| Ethylbenzene | 0.097 | 0.002 | " | 0.100 | ND | 96.9 | 62.2-130 | | | |
| m,p-Xylene | 0.268 | 0.004 | " | 0.200 | 0.034 | 117 | 46.5-137 | | | |
| o-Xylene | 0.288 | 0.002 | " | 0.100 | 0.163 | 125 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 65 | | " | 62.5 | | 104 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 69 | | " | 62.5 | | 110 | 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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D03007 - EPA 5030 (soil)

| Matrix Spike Dup (5D03007-MSD1) | Source: X504031-01 | | | Prepared: 04/03/2015 Analyzed: 04/03/2015 | | | | | | |
|----------------------------------------|---------------------------|-------|-------|--------------------------------------------------|-------|------|----------|-------|------|-------|
| Benzene | 0.109 | 0.002 | mg/kg | 0.100 | ND | 109 | 71.8-126 | 0.606 | 11.3 | |
| Toluene | 0.102 | 0.002 | " | 0.100 | ND | 102 | 65.1-130 | 5.94 | 15.4 | |
| Ethylbenzene | 0.056 | 0.002 | " | 0.100 | ND | 55.8 | 62.2-130 | 53.8 | 19.6 | QM-07 |
| m,p-Xylene | 0.254 | 0.004 | " | 0.200 | 0.034 | 110 | 46.5-137 | 5.37 | 19.2 | |
| o-Xylene | 0.265 | 0.002 | " | 0.100 | 0.163 | 102 | 54.2-134 | 8.34 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 103 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 66 | | " | 62.5 | | 106 | 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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D03008 - EPA 3580

Blank (5D03008-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|-----------------------------------|----|-----|-------|--|--|--|--|--|--|--|
| Gasoline (C6-C10) | ND | 50 | mg/kg | | | | | | | |
| Diesel (C10-C28) | ND | 50 | " | | | | | | | |
| Residual Range Organics (C28-C36) | ND | 200 | " | | | | | | | |

Surrogate: o-Terphenyl 51.3 " 50.0 103 65-146

LCS (5D03008-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|--|------|----------|--|--|--|
| Gasoline (C6-C10) | 1200 | 50 | mg/kg | 1000 | | 116 | 66.7-119 | | | |
| Diesel (C10-C28) | 1100 | 50 | " | | | | 70.1-127 | | | |
| Residual Range Organics (C28-C36) | 850 | 200 | " | 1000 | | 84.7 | 54.5-139 | | | |

Surrogate: o-Terphenyl 47.5 " 50.0 95.1 65-146

Matrix Spike (5D03008-MS1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|-----|------|----------|--|--|--|
| Gasoline (C6-C10) | 1200 | 50 | mg/kg | 1000 | 61 | 119 | 56.4-132 | | | |
| Diesel (C10-C28) | 1400 | 50 | " | | 250 | | 57.4-138 | | | |
| Residual Range Organics (C28-C36) | 940 | 200 | " | 1000 | 48 | 89.2 | 47.7-129 | | | |

Surrogate: o-Terphenyl 45.6 " 50.0 91.3 65-146

Matrix Spike Dup (5D03008-MSD1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|-----|------|----------|------|------|--|
| Gasoline (C6-C10) | 1200 | 50 | mg/kg | 1000 | 61 | 115 | 56.4-132 | 2.54 | 22 | |
| Diesel (C10-C28) | 1300 | 50 | " | | 250 | | 57.4-138 | 5.45 | 18.3 | |
| Residual Range Organics (C28-C36) | 890 | 200 | " | 1000 | 48 | 84.4 | 47.7-129 | 5.27 | 30.1 | |

Surrogate: o-Terphenyl 41.6 " 50.0 83.2 65-146

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

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 5D06008 - NO PREP | | | | | | | | | | |
| Duplicate (5D06008-DUP1) | | Source: X504060-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| pH | 8.99 | | pH Units | | 8.76 | | | 2.59 | 25 | |
| Duplicate (5D06008-DUP2) | | Source: X504059-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| pH | 8.70 | | pH Units | | 8.77 | | | 0.801 | 25 | |
| Duplicate (5D06008-DUP3) | | Source: X504064-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| pH | 8.39 | | pH Units | | 8.36 | | | 0.358 | 25 | |
| Batch 5D06009 - NO PREP | | | | | | | | | | |
| Blank (5D06009-BLK1) | | | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 0.00290 | | mmhos/cm | | | | | | | |
| Blank (5D06009-BLK2) | | | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 0.00250 | | mmhos/cm | | | | | | | |
| Blank (5D06009-BLK3) | | | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 0.00370 | | mmhos/cm | | | | | | | |
| Duplicate (5D06009-DUP1) | | Source: X504064-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 1.25 | | mmhos/cm | | 1.27 | | | 1.35 | 25 | |
| Duplicate (5D06009-DUP2) | | Source: X504059-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 0.0303 | | mmhos/cm | | 0.0276 | | | 9.33 | 25 | |
| Duplicate (5D06009-DUP3) | | Source: X504060-01 | | | Prepared: 04/06/2015 Analyzed: 04/07/2015 | | | | | |
| Specific Conductance (EC) | 0.0490 | | mmhos/cm | | 0.0524 | | | 6.71 | 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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

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

Batch 1468814 - SW846 3050B

BLANK (1203293115-BLK)

Prepared: 04/06/2015 Analyzed: 04/08/2015

| | | | | | | | | | | |
|---------|----|-------|-------|--|--|--|---|--|--|---|
| Arsenic | ND | 2.94 | mg/kg | | | | - | | | U |
| Barium | ND | 0.489 | " | | | | - | | | U |

LCS (1203293116-BKS)

Prepared: 04/06/2015 Analyzed: 04/08/2015

| | | | | | | | | | | |
|---------|------|-------|-------|------|--|------|--------|--|--|--|
| Barium | 49.3 | 0.494 | mg/kg | 49.4 | | 99.8 | 80-120 | | | |
| Arsenic | 49.8 | 2.96 | " | 49.4 | | 101 | 80-120 | | | |

DUP (1203293117 D)

Source: 370085001

Prepared: 04/06/2015 Analyzed: 04/08/2015

| | | | | | | | | | | |
|---------|------|-------|-----------|--|------|--|------|------|----|---|
| Arsenic | 1.71 | 3.07 | mg/kg dry | | 1.81 | | 0-20 | 6.03 | 20 | J |
| Barium | 34.1 | 0.512 | " | | 32.5 | | 0-20 | 4.61 | 20 | |

MS (1203293118 S)

Source: 370085001

Prepared: 04/06/2015 Analyzed: 04/08/2015

| | | | | | | | | | | |
|---------|------|-------|-----------|------|------|------|--------|--|--|--|
| Arsenic | 53.1 | 3.12 | mg/kg dry | 52.0 | 1.81 | 98.6 | 75-125 | | | |
| Barium | 84.5 | 0.520 | " | 52.0 | 32.5 | 99.9 | 75-125 | | | |

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.

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

Justin Solomon
 Project Number: 014211290-374
 Project: KMG - Mulga 3N-33Hz

TCLP Metals by 1311/3010A/6010C - Quality Control
GEL Laboratories, LLC

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|--------------------------|-------|-------------|-------------------------------------------|------|-------------|------|-----------|-------|
| Batch 1469320 - SW846 3010A | | | | | | | | | | |
| MS (1203293177 S) | | | | | | | | | | |
| | | Source: 370092006 | | | Prepared: 04/07/2015 Analyzed: 04/07/2015 | | | | | |
| Arsenic | 4.96 | 0.300 | mg/L | 5.00 | <0.050 | 98.5 | 75-125 | | | |
| TB (1203293178-BLK) | | | | | | | | | | |
| | | | | | Prepared: 04/07/2015 Analyzed: 04/07/2015 | | | | | |
| Arsenic | ND | 0.300 | mg/L | | | | - | | | U |
| BLANK (1203294364-BLK) | | | | | | | | | | |
| | | | | | Prepared: 04/07/2015 Analyzed: 04/07/2015 | | | | | |
| Arsenic | ND | 0.300 | mg/L | | | | - | | | U |
| LCS (1203294365-BKS) | | | | | | | | | | |
| | | | | | Prepared: 04/07/2015 Analyzed: 04/07/2015 | | | | | |
| Arsenic | 4.93 | 0.300 | mg/L | 5.00 | | 98.6 | 80-120 | | | |
| DUP (1203294366 D) | | | | | | | | | | |
| | | Source: 370092006 | | | Prepared: 04/07/2015 Analyzed: 04/07/2015 | | | | | |
| Arsenic | 0.0673 | 0.300 | mg/L | | <0.050 | | 0-20 | 53.2 | 20 | J |

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.

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

Justin Solomon
Project Number: 014211290-374
Project: KMG - Mulga 3N-33Hz

Notes and Definitions

U Result not detected above the detection limit

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

J Greater than the detection limit but less than the reporting limit

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