

March 09, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Rainin 13-29

Project Number - [none]

Attached are your analytical results for KMG - Rainin 13-29 received by Origins Laboratory, Inc. March 06, 2015. This project is associated with Origins project number X503056-01.

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

John Cocroft  
Project Number: [none]  
Project: KMG - Rainin 13-29

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled        | Date Received    |
|-----------|---------------|--------|---------------------|------------------|
| B01 @ 20' | X503056-01    | Soil   | March 6, 2015 10:50 | 03/06/2015 17:23 |
| N01 @ 12' | X503056-02    | Soil   | March 6, 2015 10:55 | 03/06/2015 17:23 |
| E01 @ 12' | X503056-03    | Soil   | March 6, 2015 11:00 | 03/06/2015 17:23 |
| S01 @ 12' | X503056-04    | Soil   | March 6, 2015 11:05 | 03/06/2015 17:23 |
| W01 @ 12' | X503056-05    | Soil   | March 6, 2015 11:10 | 03/06/2015 17:23 |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

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

Sample Receipt Checklist

Origins Work Order: XS03056 Client: LJE  
 Client Project ID: Rainin 13-29  
 Checklist Completed by: Jeff Smith Shipped Via: HD-carrier  
 Date/time completed: 3/6/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 5.0 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: T003

| Requirement Description  | Yes | No | N/A | Comments (if any) |
|--|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?  | X   |    |     |                   |
| 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 <sup>(1)</sup> ?  | X   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | X   |    |     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?   | X   |    |     | PH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?   | X   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | X   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | X   |    |     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?  | X   |    |     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>  |     |    | X   |                   |
| 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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) |     |    | X   |                   |
| 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.

Jeff Smith Reviewed by (Project Manager) 3/6/15 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**B01 @ 20'**  
**3/6/2015 10:50:00AM**

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

**Origins Laboratory, Inc.**  
**X503056-01 (Soil)**

**BTEX by EPA 8260C**

|                |              |       |       |    |         |            |            |  |
|----------------|--------------|-------|-------|----|---------|------------|------------|--|
| Benzene        | ND           | 0.050 | mg/kg | 25 | 5C06014 | 03/06/2015 | 03/07/2015 |  |
| Toluene        | <b>1.33</b>  | 0.050 | "     | "  | "       | "          | "          |  |
| Ethylbenzene   | <b>0.370</b> | 0.050 | "     | "  | "       | "          | "          |  |
| Xylenes, total | <b>5.82</b>  | 0.050 | "     | "  | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 92.6 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 107 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 101 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |             |  |          |   |         |            |            |  |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | <b>7.75</b> |  | pH Units | 1 | 5C06015 | 03/06/2015 | 03/06/2015 |  |
|----|-------------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |                |  |          |   |         |   |            |  |
|---------------------------|----------------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | <b>0.00590</b> |  | mmhos/cm | " | 5C06016 | " | 03/06/2015 |  |
|---------------------------|----------------|--|----------|---|---------|---|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |            |     |       |   |         |            |            |  |
|-----------------------------------|------------|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | <b>230</b> | 50  | mg/kg | 1 | 5C06013 | 03/06/2015 | 03/07/2015 |  |
| Diesel (C10-C28)                  | <b>320</b> | 50  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND         | 200 | "     | " | "       | "          | "          |  |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 97.6 % | 65-146 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**N01 @ 12'**  
**3/6/2015 10:55:00AM**

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

**Origins Laboratory, Inc.**  
**X503056-02 (Soil)**

**BTEX by EPA 8260C**

|                |    |       |       |   |         |            |            |  |
|----------------|----|-------|-------|---|---------|------------|------------|--|
| Benzene        | ND | 0.002 | mg/kg | 1 | 5C06014 | 03/06/2015 | 03/07/2015 |  |
| Toluene        | ND | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total | ND | 0.002 | "     | " | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 104 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 97.9 % | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.46 |  | pH Units | 1 | 5C06015 | 03/06/2015 | 03/06/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |            |  |
|---------------------------|--------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.0538 |  | mmhos/cm | " | 5C06016 | " | 03/06/2015 |  |
|---------------------------|--------|--|----------|---|---------|---|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |    |     |       |   |         |            |            |  |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | ND | 50  | mg/kg | 1 | 5C06013 | 03/06/2015 | 03/07/2015 |  |
| Diesel (C10-C28)                  | ND | 50  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND | 200 | "     | " | "       | "          | "          |  |

|                        |       |        |  |  |   |   |   |  |
|------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 100 % | 65-146 |  |  | " | " | " |  |
|------------------------|-------|--------|--|--|---|---|---|--|

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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**E01 @ 12'**  
**3/6/2015 11:00:00AM**

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

**Origins Laboratory, Inc.**  
**X503056-03 (Soil)**

**BTEX by EPA 8260C**

|                |    |       |       |   |         |            |            |  |
|----------------|----|-------|-------|---|---------|------------|------------|--|
| Benzene        | ND | 0.002 | mg/kg | 1 | 5C06014 | 03/06/2015 | 03/07/2015 |  |
| Toluene        | ND | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total | ND | 0.002 | "     | " | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 95.0 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 99.9 % | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.03 |  | pH Units | 1 | 5C06015 | 03/06/2015 | 03/06/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |         |  |          |   |         |   |            |  |
|---------------------------|---------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.00670 |  | mmhos/cm | " | 5C06016 | " | 03/06/2015 |  |
|---------------------------|---------|--|----------|---|---------|---|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |    |     |       |   |         |            |            |  |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | ND | 50  | mg/kg | 1 | 5C06013 | 03/06/2015 | 03/07/2015 |  |
| Diesel (C10-C28)                  | ND | 50  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND | 200 | "     | " | "       | "          | "          |  |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 90.8 % | 65-146 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**S01 @ 12'**  
**3/6/2015 11:05:00AM**

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

**Origins Laboratory, Inc.**  
**X503056-04 (Soil)**

**BTEX by EPA 8260C**

|                |    |       |       |   |         |            |            |  |
|----------------|----|-------|-------|---|---------|------------|------------|--|
| Benzene        | ND | 0.002 | mg/kg | 1 | 5C06014 | 03/06/2015 | 03/07/2015 |  |
| Toluene        | ND | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total | ND | 0.002 | "     | " | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 99.8 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 111 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 96.1 % | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.37 |  | pH Units | 1 | 5C06015 | 03/06/2015 | 03/06/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |            |  |
|---------------------------|--------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.0363 |  | mmhos/cm | " | 5C06016 | " | 03/06/2015 |  |
|---------------------------|--------|--|----------|---|---------|---|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |    |     |       |   |         |            |            |  |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | ND | 50  | mg/kg | 1 | 5C06013 | 03/06/2015 | 03/07/2015 |  |
| Diesel (C10-C28)                  | ND | 50  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND | 200 | "     | " | "       | "          | "          |  |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 93.1 % | 65-146 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**W01 @ 12'**  
**3/6/2015 11:10:00AM**

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

**Origins Laboratory, Inc.**  
**X503056-05 (Soil)**

**BTEX by EPA 8260C**

|                |    |       |       |   |         |            |            |  |
|----------------|----|-------|-------|---|---------|------------|------------|--|
| Benzene        | ND | 0.002 | mg/kg | 1 | 5C06014 | 03/06/2015 | 03/07/2015 |  |
| Toluene        | ND | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total | ND | 0.002 | "     | " | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 100 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 96.8 % | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 100 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.47 |  | pH Units | 1 | 5C06015 | 03/06/2015 | 03/06/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |         |  |          |   |         |   |            |  |
|---------------------------|---------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.00700 |  | mmhos/cm | " | 5C06016 | " | 03/06/2015 |  |
|---------------------------|---------|--|----------|---|---------|---|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |    |     |       |   |         |            |            |  |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | ND | 50  | mg/kg | 1 | 5C06013 | 03/06/2015 | 03/07/2015 |  |
| Diesel (C10-C28)                  | ND | 50  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND | 200 | "     | " | "       | "          | "          |  |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 92.1 % | 65-146 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C06014 - EPA 5030 (soil)**

**Blank (5C06014-BLK1)**

Prepared: 03/06/2015 Analyzed: 03/07/2015

|                                  |    |       |       |      |      |  |        |  |  |  |
|----------------------------------|----|-------|-------|------|------|--|--------|--|--|--|
| Benzene                          | ND | 0.002 | mg/kg |      |      |  |        |  |  |  |
| Toluene                          | ND | 0.002 | "     |      |      |  |        |  |  |  |
| Ethylbenzene                     | ND | 0.002 | "     |      |      |  |        |  |  |  |
| Xylenes, total                   | ND | 0.002 | "     |      |      |  |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 58 |       | ug/kg | 62.5 | 92.3 |  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 63 |       | "     | 62.5 | 101  |  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 60 |       | "     | 62.5 | 96.0 |  | 70-130 |  |  |  |

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C06014 - EPA 5030 (soil)**

**LCS (5C06014-BS1)**

Prepared: 03/06/2015 Analyzed: 03/07/2015

|                                  |       |       |       |       |  |      |          |  |  |  |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.104 | 0.002 | mg/kg | 0.100 |  | 104  | 77.1-124 |  |  |  |
| Toluene                          | 0.106 | 0.002 | "     | 0.100 |  | 106  | 74.5-128 |  |  |  |
| Ethylbenzene                     | 0.103 | 0.002 | "     | 0.100 |  | 103  | 66.4-127 |  |  |  |
| m,p-Xylene                       | 0.199 | 0.004 | "     | 0.200 |  | 99.6 | 76.6-124 |  |  |  |
| o-Xylene                         | 0.098 | 0.002 | "     | 0.100 |  | 98.1 | 76.6-124 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 59    |       | ug/kg | 62.5  |  | 93.8 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 69    |       | "     | 62.5  |  | 110  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 63    |       | "     | 62.5  |  | 101  | 70-130   |  |  |  |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C06014 - EPA 5030 (soil)**

| <b>Matrix Spike (5C06014-MS1)</b> | <b>Source: X503056-02</b> |       |       | <b>Prepared: 03/06/2015 Analyzed: 03/07/2015</b> |    |      |          |  |  |  |
|-----------------------------------|---------------------------|-------|-------|--|----|------|----------|--|--|--|
| Benzene                           | 0.097                     | 0.002 | mg/kg | 0.100  | ND | 97.1 | 71.8-126 |  |  |  |
| Toluene                           | 0.093                     | 0.002 | "     | 0.100  | ND | 92.6 | 65.1-130 |  |  |  |
| Ethylbenzene                      | 0.084                     | 0.002 | "     | 0.100  | ND | 84.5 | 62.2-130 |  |  |  |
| m,p-Xylene                        | 0.176                     | 0.004 | "     | 0.200  | ND | 87.8 | 46.5-137 |  |  |  |
| o-Xylene                          | 0.089                     | 0.002 | "     | 0.100  | ND | 89.2 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4  | 61                        |       | ug/kg | 62.5   |    | 97.1 | 70-130   |  |  |  |
| Surrogate: Toluene-d8             | 63                        |       | "     | 62.5   |    | 101  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 63                        |       | "     | 62.5   |    | 101  | 70-130   |  |  |  |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C06014 - EPA 5030 (soil)**

| <b>Matrix Spike Dup (5C06014-MSD1)</b>  | <b>Source: X503056-02</b> |       |              | <b>Prepared: 03/06/2015 Analyzed: 03/07/2015</b> |    |      |          |      |      |  |
|---|---------------------------|-------|--------------|--|----|------|----------|------|------|--|
| Benzene                                 | 0.091                     | 0.002 | mg/kg        | 0.100  | ND | 90.5 | 71.8-126 | 7.03 | 11.3 |  |
| Toluene                                 | 0.094                     | 0.002 | "            | 0.100  | ND | 94.0 | 65.1-130 | 1.50 | 15.4 |  |
| Ethylbenzene                            | 0.085                     | 0.002 | "            | 0.100  | ND | 85.5 | 62.2-130 | 1.13 | 19.6 |  |
| m,p-Xylene                              | 0.174                     | 0.004 | "            | 0.200  | ND | 86.8 | 46.5-137 | 1.14 | 19.2 |  |
| o-Xylene                                | 0.084                     | 0.002 | "            | 0.100  | ND | 83.7 | 54.2-134 | 6.32 | 17.9 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 59                        |       | <i>ug/kg</i> | 62.5   |    | 93.9 | 70-130   |      |      |  |
| <i>Surrogate: Toluene-d8</i>            | 65                        |       | "            | 62.5   |    | 104  | 70-130   |      |      |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 67                        |       | "            | 62.5   |    | 107  | 70-130   |      |      |  |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 8015M - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch 5C06013 - EPA 3580**

**Blank (5C06013-BLK1)**

Prepared: 03/06/2015 Analyzed: 03/07/2015

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

Surrogate: o-Terphenyl 50.0 " 50.0 100 65-146

**LCS (5C06013-BS1)**

Prepared: 03/06/2015 Analyzed: 03/07/2015

|                                   |      |     |       |      |  |      |          |  |  |  |
|-----------------------------------|------|-----|-------|------|--|------|----------|--|--|--|
| Gasoline (C6-C10)                 | 1000 | 50  | mg/kg | 1000 |  | 102  | 66.7-119 |  |  |  |
| Diesel (C10-C28)                  | 960  | 50  | "     | 1000 |  | 95.7 | 70.1-127 |  |  |  |
| Residual Range Organics (C28-C36) | 1000 | 200 | "     | 1000 |  | 102  | 54.5-139 |  |  |  |

Surrogate: o-Terphenyl 49.2 " 50.0 98.4 65-146

**Matrix Spike (5C06013-MS1)**

Source: X503056-02

Prepared: 03/06/2015 Analyzed: 03/07/2015

|                                   |      |     |       |      |    |      |          |  |  |  |
|-----------------------------------|------|-----|-------|------|----|------|----------|--|--|--|
| Gasoline (C6-C10)                 | 1000 | 50  | mg/kg | 1000 | ND | 104  | 56.4-132 |  |  |  |
| Diesel (C10-C28)                  | 950  | 50  | "     | 1000 | 29 | 92.2 | 57.4-138 |  |  |  |
| Residual Range Organics (C28-C36) | 1000 | 200 | "     | 1000 | 23 | 99.1 | 47.7-129 |  |  |  |

Surrogate: o-Terphenyl 47.9 " 50.0 95.8 65-146

**Matrix Spike Dup (5C06013-MSD1)**

Source: X503056-02

Prepared: 03/06/2015 Analyzed: 03/07/2015

|                                   |      |     |       |      |    |      |          |       |      |       |
|-----------------------------------|------|-----|-------|------|----|------|----------|-------|------|-------|
| Gasoline (C6-C10)                 | 1000 | 50  | mg/kg | 1000 | ND | 104  | 56.4-132 | 0.249 | 22   |       |
| Diesel (C10-C28)                  | 1100 | 50  | "     | 1000 | 29 | 105  | 57.4-138 | 12.3  | 18.3 |       |
| Residual Range Organics (C28-C36) | 710  | 200 | "     | 1000 | 23 | 68.4 | 47.7-129 | 35.7  | 30.1 | QR-02 |

Surrogate: o-Terphenyl 47.7 " 50.0 95.5 65-146

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C06015 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Duplicate (5C06015-DUP1)</b> |         | <b>Source: X503054-01</b>                 |          |             | Prepared: 03/06/2015 Analyzed: 03/06/2015 |      |             |       |           |       |
| pH                              | 8.37    |   | pH Units |             | 8.45                                      |      |             | 0.951 | 25        |       |
| <b>Batch 5C06016 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Blank (5C06016-BLK1)</b>     |         | Prepared: 03/06/2015 Analyzed: 03/06/2015 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00210 |   | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (5C06016-DUP1)</b> |         | <b>Source: X503054-01</b>                 |          |             | Prepared: 03/06/2015 Analyzed: 03/06/2015 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.0836  |   | mmhos/cm |             | 0.0859                                    |      |             | 2.71  | 25        |       |

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - Rainin 13-29

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### Notes and Definitions

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.



*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



March 10, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Rainin 13-29

Project Number - [none]

Attached are your analytical results for KMG - Rainin 13-29 received by Origins Laboratory, Inc. March 09, 2015. This project is associated with Origins project number X503073-01.

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

John Cocroft  
Project Number: [none]  
Project: KMG - Rainin 13-29

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled        | Date Received    |
|-----------|---------------|--------|---------------------|------------------|
| B03 @ 22' | X503073-01    | Soil   | March 9, 2015 14:00 | 03/09/2015 16:34 |
| B02 @ 20' | X503073-02    | Soil   | March 9, 2015 13:25 | 03/09/2015 16:34 |

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X503073

Client: LTE

Client Project ID: Rainin

Checklist Completed by: DAVID MATHIS

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

Date/time completed: 03-09-15

Airbill #: \_\_\_\_\_

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

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

Thermometer ID: T803

| 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> ?   |     | X  |     | Sampled today     |
| 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 <sup>(1)</sup> ?   | X   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | X   |    |     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | X   | X  |     | PH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | X   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | X   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | X   |    |     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | X   |    |     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.  |     |    | X   | Soil              |
| 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) |     |    | X   | Soil              |
| 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)

3/9/15  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**B03 @ 22'**  
**3/9/2015 2:00:00PM**

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

**Origins Laboratory, Inc.**  
**X503073-01 (Soil)**

**BTEX by EPA 8260C**

|                |      |      |       |      |         |            |            |  |
|----------------|------|------|-------|------|---------|------------|------------|--|
| Benzene        | 67.6 | 1.99 | mg/kg | 1000 | 5C09006 | 03/09/2015 | 03/10/2015 |  |
| Toluene        | 343  | 1.99 | "     | "    | "       | "          | "          |  |
| Ethylbenzene   | 28.1 | 1.99 | "     | "    | "       | "          | "          |  |
| Xylenes, total | 333  | 1.99 | "     | "    | "       | "          | "          |  |

|                                  |       |        |  |  |   |   |   |      |
|----------------------------------|-------|--------|--|--|---|---|---|------|
| Surrogate: 1,2-Dichloroethane-d4 | 123 % | 70-130 |  |  | " | " | " |      |
| Surrogate: Toluene-d8            | 146 % | 70-130 |  |  | " | " | " | S-04 |
| Surrogate: 4-Bromofluorobenzene  | 105 % | 70-130 |  |  | " | " | " |      |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.99 |  | pH Units | 1 | 5C09008 | 03/09/2015 | 03/09/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |            |            |  |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.247 |  | mmhos/cm | " | 5C09009 | 03/09/2015 | 03/09/2015 |  |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |      |     |       |    |         |            |            |  |
|-----------------------------------|------|-----|-------|----|---------|------------|------------|--|
| Gasoline (C6-C10)                 | 9400 | 250 | mg/kg | 10 | 5C09007 | 03/09/2015 | 03/10/2015 |  |
| Diesel (C10-C28)                  | 5600 | 250 | "     | "  | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | 1100 | 100 | "     | 1  | "       | "          | 03/09/2015 |  |

|                        |       |        |  |  |   |   |            |  |
|------------------------|-------|--------|--|--|---|---|------------|--|
| Surrogate: o-Terphenyl | 105 % | 65-146 |  |  | " | " | 03/10/2015 |  |
|------------------------|-------|--------|--|--|---|---|------------|--|

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**B02 @ 20'**  
**3/9/2015 1:25:00PM**

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

**Origins Laboratory, Inc.**  
**X503073-02 (Soil)**

**BTEX by EPA 8260C**

|                |      |       |       |     |         |            |            |  |
|----------------|------|-------|-------|-----|---------|------------|------------|--|
| Benzene        | 1.26 | 0.498 | mg/kg | 250 | 5C09006 | 03/09/2015 | 03/09/2015 |  |
| Toluene        | 15.5 | 0.498 | "     | "   | "       | "          | "          |  |
| Ethylbenzene   | 1.81 | 0.498 | "     | "   | "       | "          | "          |  |
| Xylenes, total | 26.4 | 0.498 | "     | "   | "       | "          | "          |  |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 98.3 % | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 120 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 101 %  | 70-130 |  |  | " | " | " |  |

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.71 |  | pH Units | 1 | 5C09008 | 03/09/2015 | 03/09/2015 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |            |            |  |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0987 |  | mmhos/cm | " | 5C09009 | 03/09/2015 | 03/09/2015 |  |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

**TPH-Carbon Chain by EPA Method 8015C**

|                                   |     |     |       |   |         |            |            |  |
|-----------------------------------|-----|-----|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10)                 | 710 | 25  | mg/kg | 1 | 5C09007 | 03/09/2015 | 03/09/2015 |  |
| Diesel (C10-C28)                  | 640 | 25  | "     | " | "       | "          | "          |  |
| Residual Range Organics (C28-C36) | ND  | 100 | "     | " | "       | "          | "          |  |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 98.5 % | 65-146 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

Origins Laboratory, Inc.



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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C09006 - EPA 5030 (soil)**

**Blank (5C09006-BLK1)**

Prepared: 03/09/2015 Analyzed: 03/09/2015

|                                  |    |       |       |      |  |      |        |  |  |  |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|--|
| Benzene                          | ND | 0.002 | mg/kg |      |  |      |        |  |  |  |
| Toluene                          | ND | 0.002 | "     |      |  |      |        |  |  |  |
| Ethylbenzene                     | ND | 0.002 | "     |      |  |      |        |  |  |  |
| Xylenes, total                   | ND | 0.002 | "     |      |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 61 |       | ug/kg | 62.5 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 71 |       | "     | 62.5 |  | 113  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 61 |       | "     | 62.5 |  | 97.0 | 70-130 |  |  |  |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C09006 - EPA 5030 (soil)**

**LCS (5C09006-BS1)**

Prepared: 03/09/2015 Analyzed: 03/09/2015

|                                  |       |       |       |       |  |      |          |  |  |  |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.096 | 0.002 | mg/kg | 0.100 |  | 95.5 | 77.1-124 |  |  |  |
| Toluene                          | 0.095 | 0.002 | "     | 0.100 |  | 95.1 | 74.5-128 |  |  |  |
| Ethylbenzene                     | 0.086 | 0.002 | "     | 0.100 |  | 85.7 | 66.4-127 |  |  |  |
| m,p-Xylene                       | 0.174 | 0.004 | "     | 0.200 |  | 86.9 | 76.6-124 |  |  |  |
| o-Xylene                         | 0.091 | 0.002 | "     | 0.100 |  | 90.7 | 76.6-124 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 64    |       | ug/kg | 62.5  |  | 102  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |       | "     | 62.5  |  | 102  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 65    |       | "     | 62.5  |  | 103  | 70-130   |  |  |  |

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

John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C09006 - EPA 5030 (soil)**

| <b>Matrix Spike (5C09006-MS1)</b> | <b>Source: X503055-01</b> |       |       | <b>Prepared: 03/09/2015 Analyzed: 03/09/2015</b> |        |      |          |  |  |  |
|-----------------------------------|---------------------------|-------|-------|--|--------|------|----------|--|--|--|
| Benzene                           | 0.093                     | 0.002 | mg/kg | 0.100  | ND     | 93.3 | 71.8-126 |  |  |  |
| Toluene                           | 0.097                     | 0.002 | "     | 0.100  | ND     | 96.9 | 65.1-130 |  |  |  |
| Ethylbenzene                      | 0.080                     | 0.002 | "     | 0.100  | ND     | 79.7 | 62.2-130 |  |  |  |
| m,p-Xylene                        | 0.162                     | 0.004 | "     | 0.200  | ND     | 81.1 | 46.5-137 |  |  |  |
| o-Xylene                          | 0.085                     | 0.002 | "     | 0.100  | 0.0004 | 84.4 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4  | 65                        |       | ug/kg | 62.5   |        | 103  | 70-130   |  |  |  |
| Surrogate: Toluene-d8             | 68                        |       | "     | 62.5   |        | 109  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 65                        |       | "     | 62.5   |        | 104  | 70-130   |  |  |  |

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John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C09006 - EPA 5030 (soil)**

| <b>Matrix Spike Dup (5C09006-MSD1)</b> | <b>Source: X503055-01</b> |       |       | <b>Prepared: 03/09/2015 Analyzed: 03/09/2015</b> |        |      |          |      |      |  |
|--|---------------------------|-------|-------|--|--------|------|----------|------|------|--|
| Benzene                                | 0.099                     | 0.002 | mg/kg | 0.100  | ND     | 99.1 | 71.8-126 | 6.01 | 11.3 |  |
| Toluene                                | 0.101                     | 0.002 | "     | 0.100  | ND     | 101  | 65.1-130 | 3.65 | 15.4 |  |
| Ethylbenzene                           | 0.073                     | 0.002 | "     | 0.100  | ND     | 73.1 | 62.2-130 | 8.74 | 19.6 |  |
| m,p-Xylene                             | 0.155                     | 0.004 | "     | 0.200  | ND     | 77.3 | 46.5-137 | 4.79 | 19.2 |  |
| o-Xylene                               | 0.082                     | 0.002 | "     | 0.100  | 0.0004 | 81.5 | 54.2-134 | 3.41 | 17.9 |  |
| Surrogate: 1,2-Dichloroethane-d4       | 67                        |       | ug/kg | 62.5   |        | 107  | 70-130   |      |      |  |
| Surrogate: Toluene-d8                  | 72                        |       | "     | 62.5   |        | 114  | 70-130   |      |      |  |
| Surrogate: 4-Bromofluorobenzene        | 68                        |       | "     | 62.5   |        | 109  | 70-130   |      |      |  |

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John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 8015M - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch 5C09007 - EPA 3580**

**Blank (5C09007-BLK1)**

Prepared: 03/09/2015 Analyzed: 03/09/2015

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

Surrogate: o-Terphenyl 41.2 " 50.0 82.3 65-146

**LCS (5C09007-BS1)**

Prepared: 03/09/2015 Analyzed: 03/09/2015

|                                   |     |     |       |      |  |      |          |  |  |  |
|-----------------------------------|-----|-----|-------|------|--|------|----------|--|--|--|
| Gasoline (C6-C10)                 | 810 | 50  | mg/kg | 1000 |  | 80.7 | 66.7-119 |  |  |  |
| Diesel (C10-C28)                  | 860 | 50  | "     |      |  |      | 70.1-127 |  |  |  |
| Residual Range Organics (C28-C36) | 710 | 200 | "     | 1000 |  | 70.7 | 54.5-139 |  |  |  |

Surrogate: o-Terphenyl 40.5 " 50.0 80.9 65-146

**Matrix Spike (5C09007-MS1)**

Source: X503055-01

Prepared: 03/09/2015 Analyzed: 03/09/2015

|                                   |     |     |       |      |     |      |          |  |  |  |
|-----------------------------------|-----|-----|-------|------|-----|------|----------|--|--|--|
| Gasoline (C6-C10)                 | 830 | 50  | mg/kg | 1000 | ND  | 82.5 | 56.4-132 |  |  |  |
| Diesel (C10-C28)                  | 940 | 50  | "     |      | 160 |      | 57.4-138 |  |  |  |
| Residual Range Organics (C28-C36) | 740 | 200 | "     | 1000 | 40  | 69.8 | 47.7-129 |  |  |  |

Surrogate: o-Terphenyl 36.3 " 50.0 72.7 65-146

**Matrix Spike Dup (5C09007-MSD1)**

Source: X503055-01

Prepared: 03/09/2015 Analyzed: 03/09/2015

|                                   |     |     |       |      |     |      |          |      |      |  |
|-----------------------------------|-----|-----|-------|------|-----|------|----------|------|------|--|
| Gasoline (C6-C10)                 | 810 | 50  | mg/kg | 1000 | ND  | 80.9 | 56.4-132 | 1.93 | 22   |  |
| Diesel (C10-C28)                  | 920 | 50  | "     |      | 160 |      | 57.4-138 | 1.56 | 18.3 |  |
| Residual Range Organics (C28-C36) | 720 | 200 | "     | 1000 | 40  | 67.7 | 47.7-129 | 2.92 | 30.1 |  |

Surrogate: o-Terphenyl 35.0 " 50.0 69.9 65-146

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John Cocroft  
 Project Number: [none]  
 Project: KMG - Rainin 13-29

**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 5C09008 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Duplicate (5C09008-DUP1)</b> |         | <b>Source: X503055-01</b>                 |          |             | Prepared: 03/09/2015 Analyzed: 03/09/2015 |      |             |       |           |       |
| pH                              | 8.22    |   | pH Units |             | 8.27                                      |      |             | 0.606 | 25        |       |
| <b>Batch 5C09009 - NO PREP</b>  |         |   |          |             |   |      |             |       |           |       |
| <b>Blank (5C09009-BLK1)</b>     |         | Prepared: 03/09/2015 Analyzed: 03/09/2015 |          |             |   |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00240 |   | mmhos/cm |             |   |      |             |       |           |       |
| <b>Duplicate (5C09009-DUP1)</b> |         | <b>Source: X503055-01</b>                 |          |             | Prepared: 03/09/2015 Analyzed: 03/09/2015 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.0924  |   | mmhos/cm |             | 0.0898                                    |      |             | 2.85  | 25        |       |

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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - Rainin 13-29

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### Notes and Definitions

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

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