

# Summit Scientific

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April 29, 2009

John Cocroft  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: KMG - Nygren 5-19 Pad

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/09 16:53. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' with a long horizontal flourish extending to the right.

Logan Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director





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

Project: KMG - Nygren 5-19 Pad

Project Number: KMG  
Project Manager: John Cocroft

Reported:  
04/29/09 14:06

**RPBG01**  
**R904012-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/02/09 14:00**

| Analyte            | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method                 | Notes |
|--------------------|--------|-----------------|-------|----------|---------|----------|----------|------------------------|-------|
| C6-C10 (TEPH-GRO)  | ND     | 50              | mg/kg | 1        | 9040701 | 04/07/09 | 04/08/09 | 8015 Full Carbon Chain |       |
| C10-C28 (TEPH-DRO) | ND     | 50              | "     | "        | "       | "        | "        | "                      |       |
| C28-C36 (TEPH-ORO) | ND     | 50              | "     | "        | "       | "        | "        | "                      |       |
| C6-C36 Total TEPH  | ND     | 50              | "     | "        | "       | "        | "        | "                      |       |

Date Sampled: **04/02/09 14:00**

| Analyte                        | Result | Reporting Limit | Units    | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----------------|----------|----------|-------|----------|----------|--------|-------|
| Surrogate: <i>o</i> -Terphenyl |        | 115 %           | 77.7-123 |          | "     | "        | "        | "      |       |
| Surrogate: Trifluorotoluene    |        | 103 %           | 73.9-120 |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/02/09 14:00**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 5.0             | ug/kg | 1        | 9040306 | 04/03/09 | 04/04/09 | EPA 8260B |       |
| Toluene         | ND     | 5.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 5.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 5.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/02/09 14:00**

| Analyte                          | Result | Reporting Limit | Units    | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|----------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 101 %           | 77.3-121 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 102 %           | 91.4-107 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 101 %           | 85.3-109 |          | "     | "        | "        | "      |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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**RPBG01**  
**R904012-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/02/09 14:00**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method          | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------------|-------|
| Specific Conductance (EC) | 1430   | 1.00            | umhos/cm | 1        | 9040703 | 04/07/09 | 04/07/09 | SM<br>2510b/mod |       |

Date Sampled: **04/02/09 14:00**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.0    |                 | pH Units | "        | 9040702 | 04/07/09 | 04/07/09 | EPA 9045B |       |

**Hazen Laboratories - LDNR True Total Barium - Dry Weight Basis**

Date Sampled: **04/02/09 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| Barium  | 0.020  | 0.0010          | %     | 1        | 9042803 | 04/17/09 | 04/28/09 | LDNR   |       |

**Evergreen Analytical - Hot Water Soluble Boron, Soil Basis**

Date Sampled: **04/02/09 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| Boron   | 0.54   | 0.020           | mg/L  | 1        | 9041703 | 04/08/09 | 04/09/09 | GUPTA  |       |

**Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)**

Date Sampled: **04/02/09 14:00**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method         | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|----------------|-------|
| Chromium, Hexavalent | ND     | 2.00            | mg/kg | 1        | 9041703 | 04/07/09 | 04/08/09 | SW6010B<br>Cr6 |       |

**Evergreen Analytical - Metals**

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**R904012-01 (Soil)**

**Summit Scientific**

**Evergreen Analytical - Metals**

Date Sampled: **04/02/09 14:00**

| Analyte         | Result     | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method  | Notes |
|-----------------|------------|-----------|-------|----------|---------|----------|----------|---------|-------|
|                 |            | Limit     | Units |          |         |          |          |         |       |
| Arsenic         | ND         | 3.6       | mg/kg | 1        | 9041703 | 04/08/09 | 04/09/09 | SW6010B |       |
| Cadmium         | ND         | 0.72      | "     | "        | "       | "        | "        | "       |       |
| <b>Chromium</b> | <b>9.4</b> | 0.72      | "     | "        | "       | "        | "        | "       |       |
| <b>Copper</b>   | <b>8.5</b> | 0.36      | "     | "        | "       | "        | "        | "       |       |
| Lead            | ND         | 5.3       | "     | "        | "       | "        | "        | "       |       |
| <b>Nickel</b>   | <b>8.4</b> | 2.2       | "     | "        | "       | "        | "        | "       |       |
| Selenium        | ND         | 7.2       | "     | "        | "       | "        | "        | "       |       |
| Silver          | ND         | 2.2       | "     | "        | "       | "        | "        | "       |       |
| <b>Zinc</b>     | <b>33</b>  | 2.2       | "     | "        | "       | "        | "        | "       |       |

**Evergreen Analytical - Mercury**

Date Sampled: **04/02/09 14:00**

| Analyte | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method  | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|---------|-------|
|         |        | Limit     | Units |          |         |          |          |         |       |
| Mercury | ND     | 0.018     | mg/kg | 1        | 9041703 | 04/06/09 | 04/08/09 | SW7471A |       |

**Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis**

Date Sampled: **04/02/09 14:00**

| Analyte                      | Result      | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|------------------------------|-------------|-----------|-------|----------|---------|----------|----------|----------|-------|
|                              |             | Limit     | Units |          |         |          |          |          |       |
| <b>Chromium+3 Calculated</b> | <b>9.40</b> | 0.300     | mg/kg | 1        | 9041703 | 04/09/09 | 04/13/09 | CalcCr+3 |       |

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Project: KMG - Nygren 5-19 Pad

Project Number: KMG  
Project Manager: John Cocroft

Reported:  
04/29/09 14:06

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**

**Summit Scientific**

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

**Batch 9040701 - EPA 3550A**

**Blank (9040701-BLK1)**

Prepared & Analyzed: 04/07/09

|                    |    |    |       |  |  |  |  |  |  |  |
|--------------------|----|----|-------|--|--|--|--|--|--|--|
| C6-C10 (TEPH-GRO)  | ND | 50 | mg/kg |  |  |  |  |  |  |  |
| C10-C28 (TEPH-DRO) | ND | 50 | "     |  |  |  |  |  |  |  |
| C28-C36 (TEPH-ORO) | ND | 50 | "     |  |  |  |  |  |  |  |
| C6-C36 Total TEPH  | ND | 50 | "     |  |  |  |  |  |  |  |

**LCS (9040701-BS1)**

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |  |      |          |  |  |  |
|--------------------|-----|----|-------|-----|--|------|----------|--|--|--|
| C6-C10 (TEPH-GRO)  | ND  | 50 | mg/kg |     |  |      | 70-130   |  |  |  |
| C10-C28 (TEPH-DRO) | 493 | 50 | "     | 500 |  | 98.6 | 83.3-127 |  |  |  |

**LCS (9040701-BS2)**

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |  |     |          |  |  |  |
|--------------------|-----|----|-------|-----|--|-----|----------|--|--|--|
| C6-C10 (TEPH-GRO)  | 552 | 50 | mg/kg | 519 |  | 106 | 70-130   |  |  |  |
| C10-C28 (TEPH-DRO) | ND  | 50 | "     |     |  |     | 83.3-127 |  |  |  |

**LCS Dup (9040701-BSD1)**

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |  |     |          |      |  |    |
|--------------------|-----|----|-------|-----|--|-----|----------|------|--|----|
| C6-C10 (TEPH-GRO)  | ND  | 50 | mg/kg |     |  |     | 70-130   |      |  | 20 |
| C10-C28 (TEPH-DRO) | 535 | 50 | "     | 500 |  | 107 | 83.3-127 | 8.17 |  | 15 |

**LCS Dup (9040701-BSD2)**

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |  |     |          |      |  |    |
|--------------------|-----|----|-------|-----|--|-----|----------|------|--|----|
| C6-C10 (TEPH-GRO)  | 572 | 50 | mg/kg | 519 |  | 110 | 70-130   | 3.56 |  | 20 |
| C10-C28 (TEPH-DRO) | ND  | 50 | "     |     |  |     | 83.3-127 |      |  | 15 |

**Matrix Spike (9040701-MS1)**

Source: R904011-01

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |    |     |          |  |  |  |
|--------------------|-----|----|-------|-----|----|-----|----------|--|--|--|
| C6-C10 (TEPH-GRO)  | ND  | 50 | mg/kg |     | ND |     | 70-130   |  |  |  |
| C10-C28 (TEPH-DRO) | 552 | 50 | "     | 500 | ND | 110 | 75.8-126 |  |  |  |

**Matrix Spike (9040701-MS2)**

Source: R904012-01

Prepared & Analyzed: 04/07/09

|                    |     |    |       |     |    |     |          |  |  |  |
|--------------------|-----|----|-------|-----|----|-----|----------|--|--|--|
| C6-C10 (TEPH-GRO)  | 632 | 50 | mg/kg | 519 | ND | 122 | 70-130   |  |  |  |
| C10-C28 (TEPH-DRO) | ND  | 50 | "     |     | ND |     | 75.8-126 |  |  |  |

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Project: KMG - Nygren 5-19 Pad

Project Number: KMG  
 Project Manager: John Cocroft

**Reported:**  
 04/29/09 14:06

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 9040701 - EPA 3550A**

| <b>Matrix Spike Dup (9040701-MSD1)</b> |     | <b>Source: R904011-01</b> |       |     | <b>Prepared &amp; Analyzed: 04/07/09</b> |      |          |       |  |      |
|--|-----|---------------------------|-------|-----|--|------|----------|-------|--|------|
| C6-C10 (TEPH-GRO)                      | ND  | 50                        | mg/kg |     | ND                                       |      | 70-130   |       |  | 20   |
| C10-C28 (TEPH-DRO)                     | 433 | 50                        | "     | 500 | ND                                       | 86.6 | 75.8-126 | 24.2  |  | 13.6 |
| <b>Matrix Spike Dup (9040701-MSD2)</b> |     | <b>Source: R904012-01</b> |       |     | <b>Prepared &amp; Analyzed: 04/07/09</b> |      |          |       |  |      |
| C6-C10 (TEPH-GRO)                      | 626 | 50                        | mg/kg | 519 | ND                                       | 121  | 70-130   | 0.954 |  | 20   |
| C10-C28 (TEPH-DRO)                     | ND  | 50                        | "     |     | ND                                       |      | 75.8-126 |       |  | 13.6 |

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Project: KMG - Nygren 5-19 Pad

Project Number: KMG  
Project Manager: John Cocroft

Reported:  
04/29/09 14:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 9040306 - EPA 5030 Soil MS**

**Blank (9040306-BLK1)**

Prepared & Analyzed: 04/03/09

|   |      |     |       |      |  |      |          |  |  |  |
|---|------|-----|-------|------|--|------|----------|--|--|--|
| Benzene                                 | ND   | 5.0 | ug/kg |      |  |      |          |  |  |  |
| Toluene                                 | ND   | 5.0 | "     |      |  |      |          |  |  |  |
| Ethylbenzene                            | ND   | 5.0 | "     |      |  |      |          |  |  |  |
| Xylenes (total)                         | ND   | 5.0 | "     |      |  |      |          |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 39.4 |     | "     | 40.0 |  | 98.5 | 77.3-121 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 39.2 |     | "     | 40.0 |  | 98.0 | 91.4-107 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 38.8 |     | "     | 40.0 |  | 97.0 | 85.3-109 |  |  |  |

**LCS (9040306-BS1)**

Prepared & Analyzed: 04/03/09

|   |      |     |       |      |  |      |          |  |  |  |
|---|------|-----|-------|------|--|------|----------|--|--|--|
| Benzene                                 | 65.2 | 5.0 | ug/kg | 100  |  | 65.2 | 70-114   |  |  |  |
| Toluene                                 | 66.4 | 5.0 | "     | 100  |  | 66.4 | 72.7-116 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 39.4 |     | "     | 40.0 |  | 98.5 | 77.3-121 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 39.8 |     | "     | 40.0 |  | 99.5 | 91.4-107 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 39.8 |     | "     | 40.0 |  | 99.5 | 85.3-109 |  |  |  |

**Matrix Spike (9040306-MS1)**

Source: R904001-01

Prepared & Analyzed: 04/03/09

|   |      |     |       |      |    |      |          |  |  |  |
|---|------|-----|-------|------|----|------|----------|--|--|--|
| Benzene                                 | 74.8 | 5.0 | ug/kg | 100  | ND | 74.8 | 66.8-117 |  |  |  |
| Toluene                                 | 93.1 | 5.0 | "     | 100  | ND | 93.1 | 71.5-117 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 41.5 |     | "     | 40.0 |    | 104  | 77.3-121 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 40.0 |     | "     | 40.0 |    | 100  | 91.4-107 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 40.3 |     | "     | 40.0 |    | 101  | 85.3-109 |  |  |  |

**Matrix Spike Dup (9040306-MSD1)**

Source: R904001-01

Prepared & Analyzed: 04/03/09

|   |      |     |       |      |    |      |          |       |      |  |
|---|------|-----|-------|------|----|------|----------|-------|------|--|
| Benzene                                 | 74.5 | 5.0 | ug/kg | 100  | ND | 74.5 | 66.8-117 | 0.402 | 17.8 |  |
| Toluene                                 | 91.7 | 5.0 | "     | 100  | ND | 91.7 | 71.5-117 | 1.52  | 14.4 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 42.3 |     | "     | 40.0 |    | 106  | 77.3-121 |       |      |  |
| <i>Surrogate: Toluene-d8</i>            | 39.6 |     | "     | 40.0 |    | 99.0 | 91.4-107 |       |      |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 40.1 |     | "     | 40.0 |    | 100  | 85.3-109 |       |      |  |

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 Project Manager: John Cocroft

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 04/29/09 14:06

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 9040702 - General Preparation**

|                                 |     |                           |          |  |                               |  |  |      |    |  |
|---------------------------------|-----|---------------------------|----------|--|-------------------------------|--|--|------|----|--|
| <b>Duplicate (9040702-DUP1)</b> |     | <b>Source: R904012-01</b> |          |  | Prepared & Analyzed: 04/07/09 |  |  |      |    |  |
| pH                              | 7.9 |                           | pH Units |  | 8.0                           |  |  | 1.26 | 20 |  |

**Batch 9040703 - General Preparation**

|                                 |      |                           |          |  |                               |  |  |      |    |  |
|---------------------------------|------|---------------------------|----------|--|-------------------------------|--|--|------|----|--|
| <b>Duplicate (9040703-DUP1)</b> |      | <b>Source: R904011-01</b> |          |  | Prepared & Analyzed: 04/07/09 |  |  |      |    |  |
| Specific Conductance (EC)       | 7080 | 1.00                      | umhos/cm |  | 5930                          |  |  | 17.7 | 20 |  |

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Project Manager: John Cocroft

**Reported:**  
04/29/09 14:06

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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