



February 22, 2016

Mr. Jacob Evans  
Senior Environmental Specialist  
Noble Energy, Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, Colorado 80634

RE: **Remediation Activity Summary  
Kaminsky 1-29 Tank Battery  
Weld County, Colorado  
COGCC Tracking #400912553**

Dear Mr. Evans:

LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted confirmation soil sampling activities at the Kaminsky 1-29 Tank Battery (Site). This correspondence describes the remediation work conducted on October 30 through December 17, 2015. The legal site description is the northwest quarter of the northwest quarter of Section 29, Township 2 North, Range 64 West, 6<sup>th</sup> Principal Meridian. The Site is located on the south side of County Road 18 approximately 0.11 miles east of County Road 51 in Weld County, Colorado. The Site Location Map is provided as Figure 1.

### **Excavation Scope of Work**

Noble personnel conducted oversight of excavation activities at the Site on October 30 through November 9, 2015. During excavation activities, LTE personnel collected discrete soil samples from the sidewalls and floor of the excavation to confirm compliance with applicable Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 standards. The contractor operating the excavation equipment was BG Services, LLC of Fort Lupton, Colorado.

The excavation was located in the vicinity of the produced water vault. The total extent of the excavation was approximately 35 feet east-west by approximately 50 feet north-south to a total depth of approximately 13 feet below ground surface (bgs) in the northern half of the excavation and to a total depth of approximately 27 feet bgs in the southern half of the excavation. Petroleum hydrocarbon staining and odor were observed at the final extent of the excavation as indicated by soil samples SS14@25' and SS15@27' at the floor of the excavation and soil sample SS17@25' near the base of the southern excavation sidewall. Groundwater was not encountered in the excavation. A total of approximately 1,200 cubic yards of soil were removed from the Site and transported to the Waste Management Buffalo Ridge landfill in Keenesburg, Colorado for final disposal.

### **Excavation Soil Sampling**

On October 30 through November 9, 2015, under the direction of Noble, LTE personnel collected 13 confirmation soil samples from the excavation sidewalls and floor (SS01@10', SS02@10', SS03@13', SS06@10', SS07@10', SS08@10', SS09@10', SS10@10', SS14@25', SS15@27', SS16@25', SS17@25', and SS18@25'). Confirmation soil samples were collected, placed on ice, then submitted with a completed chain of custody to Summit Scientific (Summit) of Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), and naphthalene by United States Environmental Protection Agency (EPA) Method 8260B and TPH as diesel range organics (DRO) by EPA Method 8015.

### **Excavation Soil Analytical Results**

The COGCC Table 910-1 standards for BTEX, naphthalene, and TPH in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, 175 mg/kg, 23 mg/kg, and 500 mg/kg, respectively. Laboratory soil analytical results indicated confirmation soil samples SS14@25', SS15@27', and SS17@25', representative of the final extent of excavation, exceeded the COGCC Table 910-1 standard for TPH at concentrations of 5,800 mg/kg, 1,590 mg/kg, and 2,700 mg/kg, respectively. All other laboratory soil analytical results representative of the final extents of excavation were in compliance with applicable COGCC Table 910-1 standards. Excavation soil analytical results are presented on Figure 2 and summarized in Table 1. The excavation laboratory soil analytical reports are included as Attachment 1.

### **Soil Boring Advancement**

On December 14 and December 17, 2015, under the direction of Noble, LTE personnel advanced a total six soil borings (SVE01 through SVE03, and SB04 through SB06) to delineate the potential extent of sorbed-phase petroleum hydrocarbon impact. The soil borings were advanced using a hollow-stem auger rig operated by Elite Drilling Services, LLC of Aurora, Colorado. Soil borings SVE01 through SVE03 were completed as temporary soil vapor extraction wells.

The soil borings were logged by an LTE geologist, and the soil was characterized by visual inspection of the collected soil samples. The total depth of the soil borings ranged from 30 feet bgs (SVE02, SVE03, and SB04 through SB06) to 35 feet bgs (SVE01). The soil borings located inside the excavation extent (SVE01 and SVE02) were logged from the base of the excavation to total depth, and the soil borings located outside of the excavation extent (SB04 through SB06 and SVE03) were logged continuously from ground surface to total depth. Groundwater was observed in soil boring SVE01 at 30 feet bgs.

Soil identified at the Site was predominantly clayey sand from ground surface to approximately 15 feet to 18 feet bgs and silty sand from approximately 15 feet to 18 feet bgs to total depth. Elevated photo-ionization detector (PID) readings (greater than 10 parts per million [ppm]) were observed in soil boring SVE02 from 12 feet bgs to 19 feet bgs. Petroleum hydrocarbon staining

and odor was observed in soil boring SVE02 in laminated lenses from 17 feet to 23 feet bgs. Soil boring logs/well completion diagrams are included as Attachment 2.

### **Soil Boring Sampling**

Soil borings were advanced using a hollow-stem auger rig and sampled continuously. During soil boring advancement, soil samples were collected and submitted for laboratory analysis based on the sample interval that exhibited visible soil staining or where the most elevated PID reading was observed above the groundwater saturated zone. During the December 2015 soil boring advancement event, six soil samples (SVE01@28', SVE02@19', SVE03@25', SB04@26', SB05@4', and SB06@30') were collected, placed on ice, then submitted with a completed chain of custody form to Summit for analysis of BTEX, naphthalene, and TPH as GRO by EPA Method 8260B and TPH as DRO by EPA Method 8015.

### **Groundwater Sampling**

On December 14, 2015, under the direction of Noble, LTE personnel collected a groundwater grab sample (GW01) from soil boring SVE01 at 30 feet bgs. Groundwater was not encountered in any of the other soil borings. The groundwater sample was collected, placed on ice, then submitted with a completed chain of custody form to Summit for analysis of BTEX by EPA Method 8260B.

### **Soil Boring Analytical Results**

The COGCC Table 910-1 standards for BTEX, naphthalene, and TPH in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, 175 mg/kg, 23 mg/kg, and 500 mg/kg, respectively. Soil analytical results indicated all soil samples were in compliance with applicable COGCC Table 910-1 standards. The soil analytical results are presented on Figure 3 and summarized in Table 2. The soil boring laboratory analytical report is included as Attachment 3.

### **Groundwater Analytical Results**

The Colorado Department of Public Health and Environment-Water Quality Control Commission has established Regulation 41-The Basic Standards for Ground Water (WQCC Reg 41) for BTEX at 5.0 micrograms per liter ( $\mu\text{g/L}$ ), 560  $\mu\text{g/L}$ , 700  $\mu\text{g/L}$ , and 1,400  $\mu\text{g/L}$ , respectively. Laboratory analytical results indicated the groundwater grab sample (GW01) was in compliance with applicable WQCC Reg 41 standards. The laboratory groundwater analytical result is presented on Figure 3 and summarized in Table 3. The soil boring laboratory analytical report is included as Attachment 3.

### **Summary**

Noble conducted oversight of source removal of petroleum hydrocarbon impacted soil at the Site. Under the direction of Noble, LTE conducted confirmation soil sampling of the excavation. Approximately 1,200 cubic yards of impacted soil was removed from the excavation and transported to a properly licensed landfill for final disposal. Groundwater was not encountered during the excavation. The excavation was backfilled to the pre-existing grade.

Laboratory soil analytical results indicated confirmation soil samples, SS14@25', SS15@27', and SS17@25', representative of the final extent of excavation, exceeded the COGCC Table 910-1 standard for TPH at concentrations of 5,800 mg/kg, 1,590 mg/kg, and 2,700 mg/kg, respectively. As a result, LTE personnel advanced a total 6 soil borings (SVE01 through SVE03, and SB04 through SB06) to delineate the potential extent of sorbed-phase petroleum hydrocarbon impact. SVE01 through SVE03 were completed as temporary soil vapor extraction wells in order to remediate soil impacts left in place during excavation activities. Laboratory soil boring analytical results were in compliance with applicable COGCC Table 910-1 standards. Groundwater was encountered in soil boring SVE01 at 30 feet bgs. Under the direction of Noble, LTE personnel collected a groundwater grab sample (GW01). The laboratory groundwater analytical result for groundwater grab sample GW01 was in compliance with applicable WQCC Reg 41 standards.

The progress and efficacy of the remediation efforts will be discussed in future correspondence. LTE appreciates the opportunity to provide environmental services to Noble. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.



Chris Roy  
Project Scientist

#### Attachments

Figure 1	Site Location Map
Figure 2	Excavation Soil Analytical Results
Figure 3	Soil Boring and Groundwater Analytical Results
Table 1	Excavation Soil Analytical Results
Table 2	Soil Boring Analytical Results
Table 3	Groundwater Analytical Results
Attachment 1	Excavation Laboratory Soil Analytical Reports
Attachment 2	Soil Boring Logs/Well Completion Diagrams
Attachment 3	Soil Boring Laboratory Analytical Report

## **FIGURES**

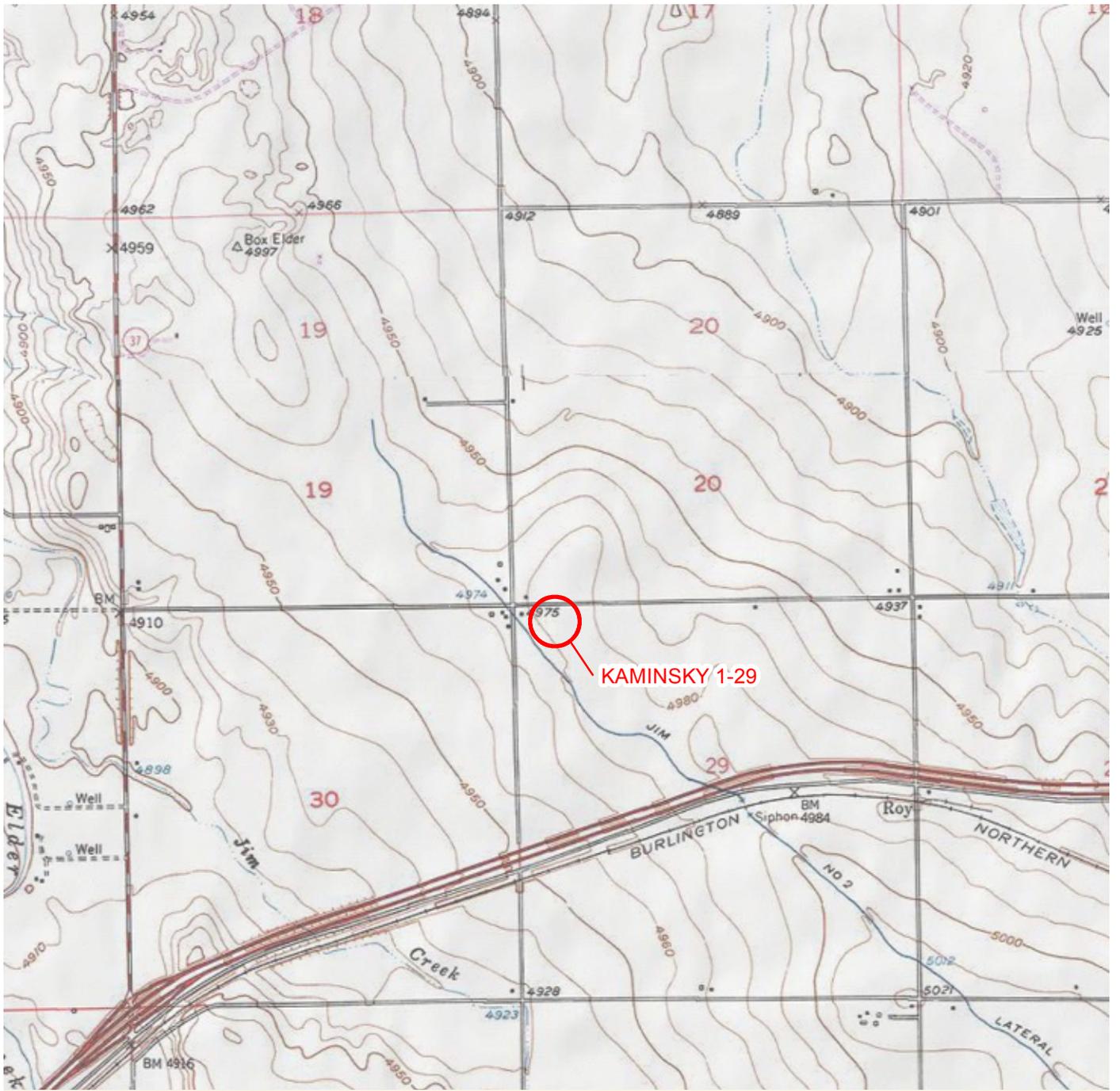
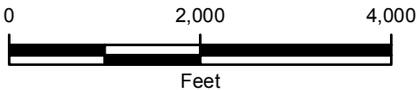


IMAGE COURTESY OF ESRI/USGS

**LEGEND**

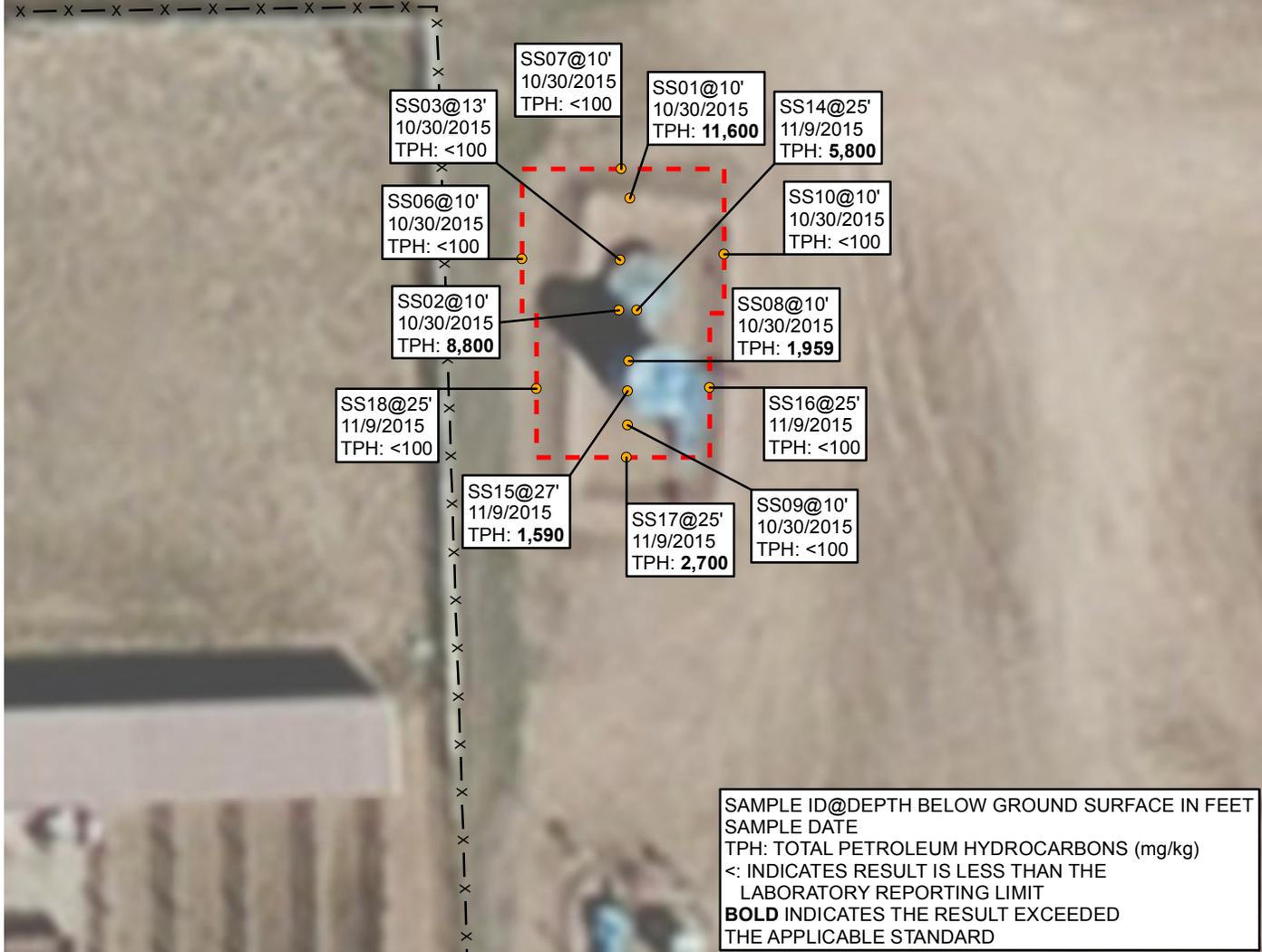
 SITE LOCATION



**FIGURE 1**  
**SITE LOCATION MAP**  
**KAMINSKY 1-29 TANK BATTERY**  
**NWNW SEC 29-T2N-R64W**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



COUNTY ROAD 18



LEGEND

- SOIL SAMPLE
- x — x FENCE
- ▭ EXCAVATION EXTENT

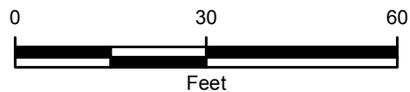


IMAGE COURTESY OF ESRI

**FIGURE 2**  
**EXCAVATION SOIL ANALYTICAL RESULTS**  
**KAMINSKY 1-29 TANK BATTERY**  
**NWNW SEC 29-T2N-R64W**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



SAMPLE ID@DEPTH BELOW GROUND SURFACE IN FEET  
 SAMPLE DATE  
 B: BENZENE IN MILLIGRAMS PER KILOGRAM (mg/kg)  
 T: TOLUENE (mg/kg)  
 E: ETHYLBENZENE (mg/kg)  
 X: TOTAL XYLENES (mg/kg)  
 NAPH: NAPHTHALENE (mg/kg)  
 TPH: TOTAL PETROLEUM HYDROCARBONS (mg/kg)  
 <: INDICATES RESULT IS LESS THAN THE  
 LABORATORY REPORTING LIMIT

\*SAMPLE ID (GROUNDWATER)  
 SAMPLE DATE  
 B: BENZENE IN MICROGRAMS PER LITER (µg/L)  
 T: TOLUENE (µg/L)  
 E: ETHYLBENZENE (µg/L)  
 X: TOTAL XYLENES (µg/L)  
 <: INDICATES RESULT IS LESS THAN THE  
 LABORATORY REPORTING LIMIT

COUNTY ROAD 18

SB05@4'  
 12/17/2015  
 B: <0.0020  
 T: <0.0050  
 E: <0.0050  
 X: <0.010  
 NAPH: <0.010  
 TPH: <100

SB06@30'  
 12/17/2015  
 B: <0.0020  
 T: <0.0050  
 E: <0.0050  
 X: <0.010  
 NAPH: <0.010  
 TPH: <100

SB04@26'  
 12/17/2015  
 B: <0.0020  
 T: <0.0050  
 E: <0.0050  
 X: <0.010  
 NAPH: <0.010  
 TPH: <100

SVE02@19'  
 12/14/2015  
 B: <0.0020  
 T: <0.0050  
 E: <0.0050  
 X: <0.010  
 NAPH: <0.010  
 TPH: <100

SVE01@28' 12/14/2015 B: <0.0020 T: <0.0050 E: <0.0050 X: <0.010 NAPH: <0.010 TPH: <100	GW01* 12/14/2015 B: <1.0 T: <1.0 E: <1.0 X: <1.0
---	---

SVE03@25'  
 12/14/2015  
 B: <0.0020  
 T: <0.0050  
 E: <0.0050  
 X: <0.010  
 NAPH: <0.010  
 TPH: <100

**LEGEND**

- SOIL BORING
- SOIL VAPOR EXTRACTION WELL
- x — x FENCE
- ▭ EXCAVATION EXTENT

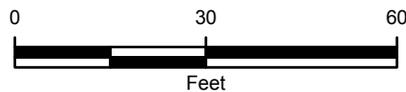


IMAGE COURTESY OF ESRI



**FIGURE 3**  
 SOIL BORING AND GROUNDWATER ANALYTICAL RESULTS  
 KAMINSKY 1-29 TANK BATTERY  
 NWNW SEC 29-T2N-R64W  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.



## **TABLES**

TABLE 1

EXCAVATION SOIL ANALYTICAL RESULTS  
 KAMINSKY 1-29 TANK BATTERY  
 COGCC TRACKING #400912553  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.

Soil Sample ID	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SS01@10'	10/30/2015	0.047	0.0057	14	2.5	3.1	6,500	5,100	<b>11,600</b>
SS02@10'	10/30/2015	0.16	0.34	10	15	1.1	4,200	4,600	<b>8,800</b>
SS03@13'	10/30/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS06@10'	10/30/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS07@10'	10/30/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS08@10'	10/30/2015	<0.0020	0.0061	<0.0050	0.38	0.041	59	1,900	<b>1,959</b>
SS09@10'	10/30/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS10@10'	10/30/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS14@25'	11/9/2015	0.11	17	9.0	98	4.5	3,400	2,400	<b>5,800</b>
SS15@27'	11/9/2015	0.0039	0.19	0.37	9.6	0.26	940	650	<b>1,590</b>
SS16@25'	11/9/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SS17@25'	11/9/2015	0.0073	0.091	0.86	26	0.30	1,500	1,200	<b>2,700</b>
SS18@25'	11/9/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
<b>COGCC Table 910-1 Standard</b>		<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>--</b>	<b>--</b>	<b>500</b>

NOTES:

**Bold** - indicates result exceeds applicable COGCC Table 910-1 standards

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

< - indicates result is less than the stated laboratory reporting limit

-- - not applicable

Benzene, toluene, ethylbenzene, total xylenes, and naphthalene analyzed by EPA Method 8260

**TABLE 2**

**SOIL BORING ANALYTICAL RESULTS  
KAMINSKY 1-29 TANK BATTERY  
COGCC TRACKING #400912553  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

<b>Soil Sample ID</b>	<b>Date</b>	<b>Benzene (mg/kg)</b>	<b>Toluene (mg/kg)</b>	<b>Ethylbenzene (mg/kg)</b>	<b>Total Xylenes (mg/kg)</b>	<b>Naphthalene (mg/kg)</b>	<b>GRO (mg/kg)</b>	<b>DRO (mg/kg)</b>	<b>TPH (mg/kg)</b>
SVE01@28'	12/14/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SVE02@19'	12/14/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SVE03@25'	12/14/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB04@26'	12/17/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB05@4'	12/17/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB06@30'	12/17/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
<b>COGCC Table 910-1 Standard</b>		<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>--</b>	<b>--</b>	<b>500</b>

**NOTES:**

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

< - indicates result is less than the stated laboratory reporting limit

-- - not applicable

Benzene, toluene, ethylbenzene, total xylenes, and naphthalene analyzed by EPA Method 8260

**TABLE 3**

**GROUNDWATER ANALYTICAL RESULTS  
KAMINSKY 1-29 TANK BATTERY  
COGCC TRACKING #400912553  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

<b>Groundwater Sample</b>	<b>Date</b>	<b>Depth to Water (feet bgs)</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>
GW01	12/14/2015	30	<1.0	<1.0	<1.0	<1.0
<b>CDPHE WQCC Reg 41</b>			<b>5.0</b>	<b>560</b>	<b>700</b>	<b>1,400</b>

**NOTES:**

bgs - below ground surface

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

CDPHE WQCC Reg 41 -

Colorado Department of Public Health and Environment-Water Quality Control Commission

Regulation 41- The Basic Standards for Ground Water

**ATTACHMENT 1**

**EXCAVATION LABORATORY SOIL ANALYTICAL REPORTS**

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 01, 2015

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Kaminsky 1-29

Enclosed are the results of analyses for samples received by Summit Scientific on 10/30/15 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/01/15 16:10

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@10'	1510228-01	Soil	10/30/15 12:30	10/30/15 17:45
SB02@10'	1510228-02	Soil	10/30/15 12:30	10/30/15 17:45
SB03@13'	1510228-03	Soil	10/30/15 12:30	10/30/15 17:45
SB06@10'	1510228-04	Soil	10/30/15 12:40	10/30/15 17:45
SB07@10'	1510228-05	Soil	10/30/15 12:50	10/30/15 17:45
SB08@10'	1510228-06	Soil	10/30/15 13:00	10/30/15 17:45
SB09@10'	1510228-07	Soil	10/30/15 13:10	10/30/15 17:45
SB10@10'	1510228-08	Soil	10/30/15 13:20	10/30/15 17:45

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

# Summit Scientific 1510228

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental	Project Manager: Noble
Address: 4600 W 60th Avenue	E-Mail: noble team
City/State/Zip: Arvada, CO, 80003	Project Name: Kaminsky 1-29
Phone: Fax:	Project Number:
Sampler Name: Chris Rolison	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	DRO	GRO	
SB01@10'	10/30/2015	1230	1												
SB02@10'	10/30/2015	1230	1								x	x	x	x	
SB03@13'	10/30/2015	1230	1								x	x	x	x	
SB06@10'	10/30/2015	1240	1								x	x	x	x	
SB07@10'	10/30/2015	1250	1								x	x	x	x	
SB08@10'	10/30/2015	1300	1								x	x	x	x	
SB09@10'	10/30/2015	1310	1								x	x	x	x	
SB10@10'	10/30/2015	1320	1								x	x	x	x	

Relinquished by:	Date/Time: 10/30/15 1530	Received by:	Date/Time: 10/30/15 1530	<b>Turn Around Time (Check)</b> Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>  <b>Sample Integrity:</b> Temperature Upon Receipt: 5.4°C Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: on ice
Relinquished by:	Date/Time: 10/30/15 1745	Received by:	Date/Time: 10/30 1745		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

www.s2scientific.com



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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB01@10'**  
**1510228-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	5100	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		137 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	3.1	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	0.047	0.0020	"	"	"	"	"	"	
Toluene	0.0057	0.0050	"	"	"	"	"	"	
Ethylbenzene	14	0.50	"	100	"	"	10/31/15	"	
Xylenes (total)	2.5	0.010	"	1	"	"	10/31/15	"	
Gasoline Range Hydrocarbons	6500	50	"	100	"	"	10/31/15	"	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	10/31/15	"	
Surrogate: Toluene-d8		1270 %	20-170		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		1000 %	21-167		"	"	"	"	S-02

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB02@10'**  
**1510228-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>4200</b>	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		127 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Naphthalene</b>	<b>1.1</b>	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
<b>Benzene</b>	<b>0.16</b>	0.0020	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.34</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>10</b>	0.50	"	100	"	"	10/31/15	"	
<b>Xylenes (total)</b>	<b>15</b>	0.010	"	1	"	"	10/31/15	"	
<b>Gasoline Range Hydrocarbons</b>	<b>4600</b>	50	"	100	"	"	10/31/15	"	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	23-173		"	"	10/31/15	"	
<i>Surrogate: Toluene-d8</i>		775 %	20-170		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>		410 %	21-167		"	"	"	"	S-02

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB03@13'**  
**1510228-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.4 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB06@10'**  
**1510228-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.4 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB07@10'**  
**1510228-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB08@10'**  
**1510228-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1900</b>	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		112 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Naphthalene</b>	<b>0.041</b>	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.0061</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.38</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>59</b>	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		128 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		112 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB09@10'**  
**1510228-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.2 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

**SB10@10'**  
**1510228-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/30/15 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510267	10/30/15	10/31/15	8015M	

Date Sampled: 10/30/15 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	30-150		"	"	"	"	

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

Date Sampled: 10/30/15 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1510266	10/30/15	10/31/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/30/15 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/01/15 16:10

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

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

**Batch 1510267 - EPA 3550A**

<b>Blank (1510267-BLK1)</b>				Prepared & Analyzed: 10/30/15							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.1		"	12.2		99.1	30-150				
<b>LCS (1510267-BS1)</b>				Prepared & Analyzed: 10/30/15							
C10-C28 (DRO)	469	50	mg/kg	499		94.0	73-134				
<i>Surrogate: o-Terphenyl</i>	12.0		"	12.2		98.7	30-150				
<b>Matrix Spike (1510267-MS1)</b>				Source: 1510227-01		Prepared & Analyzed: 10/30/15					
C10-C28 (DRO)	499	50	mg/kg	499	ND	100	50-148				
<i>Surrogate: o-Terphenyl</i>	12.2		"	12.2		99.7	30-150				
<b>Matrix Spike Dup (1510267-MSD1)</b>				Source: 1510227-01		Prepared & Analyzed: 10/30/15					
C10-C28 (DRO)	490	50	mg/kg	499	ND	98.3	50-148	1.70		13	
<i>Surrogate: o-Terphenyl</i>	12.0		"	12.2		98.3	30-150				

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/01/15 16:10

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

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

**Batch 1510266 - EPA 5030 Soil MS**

**Blank (1510266-BLK1)**

Prepared & Analyzed: 10/30/15

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0502</i>		<i>"</i>	<i>0.0396</i>		<i>127</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>		<i>21-167</i>		

**LCS (1510266-BS1)**

Prepared & Analyzed: 10/30/15

Naphthalene	ND	0.010	mg/kg					66-138		
Benzene	0.0809	0.0020	"	0.100		80.9		58-130		
Toluene	0.0890	0.0050	"	0.100		89.0		61-134		
Ethylbenzene	0.103	0.0050	"	0.0992		104		74-139		
m,p-Xylene	0.203	0.010	"	0.200		102		73-137		
o-Xylene	0.103	0.0050	"	0.0984		104		73-141		
Xylenes (total)	0.305	0.010	"					0-200		
Gasoline Range Hydrocarbons	2.90	0.50	"					30-150		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0489</i>		<i>"</i>	<i>0.0396</i>		<i>123</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0373</i>		<i>"</i>	<i>0.0400</i>		<i>93.2</i>		<i>21-167</i>		

**Matrix Spike (1510266-MS1)**

Source: 1510227-01

Prepared & Analyzed: 10/30/15

Naphthalene	ND	0.010	mg/kg		ND			10-158		
Benzene	0.0771	0.0020	"	0.100	ND	77.1		30-131		
Toluene	0.0863	0.0050	"	0.100	ND	86.3		30-134		
Ethylbenzene	0.103	0.0050	"	0.0992	ND	104		22-153		
m,p-Xylene	0.200	0.010	"	0.200	ND	100		10-159		
o-Xylene	0.102	0.0050	"	0.0984	ND	104		31-151		
Xylenes (total)	0.303	0.010	"		0.00			30-160		
Gasoline Range Hydrocarbons	5.46	0.50	"		3.22			30-160		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0483</i>		<i>"</i>	<i>0.0396</i>		<i>122</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.3</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.5</i>		<i>21-167</i>		

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/01/15 16:10

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

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

**Batch 1510266 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1510266-MSD1)</b>	<b>Source: 1510227-01</b>			<b>Prepared &amp; Analyzed: 10/30/15</b>						
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158			42	
Benzene	0.0802	0.0020	"	0.100	ND	80.2	30-131	4.04	34	
Toluene	0.0891	0.0050	"	0.100	ND	89.1	30-134	3.18	30	
Ethylbenzene	0.109	0.0050	"	0.0992	ND	110	22-153	4.95	24	
m,p-Xylene	0.213	0.010	"	0.200	ND	106	10-159	5.91	68	
o-Xylene	0.109	0.0050	"	0.0984	ND	111	31-151	6.34	38	
Xylenes (total)	0.321	0.010	"		0.00		30-160	6.06	30	
Gasoline Range Hydrocarbons	5.61	0.50	"		3.22		30-160	2.74	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0481</i>		<i>"</i>	<i>0.0396</i>		<i>121</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>96.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.8</i>	<i>21-167</i>			

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/01/15 16:10

### Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 10, 2015

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Kaminsky 1-29

Enclosed are the results of analyses for samples received by Summit Scientific on 11/09/15 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

**Reported:**  
11/10/15 06:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB14@25'	1511065-01	Soil	11/09/15 10:00	11/09/15 16:30
SB15@27'	1511065-02	Soil	11/09/15 10:15	11/09/15 16:30
SB16@25'	1511065-03	Soil	11/09/15 10:30	11/09/15 16:30
SB17@25'	1511065-04	Soil	11/09/15 10:45	11/09/15 16:30
SB18@25'	1511065-05	Soil	11/09/15 11:00	11/09/15 16:30

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

# Summit Scientific 1511065

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental, Inc.  
Address: 4600 West 60th Ave  
City/State/Zip: Arvada, CO 80003  
Phone: 303-433-9788 Fax: 303-433-1432  
Sampler Name: W. Hasler

Project Manager: Chris Roy  
E-Mail: croyle@env.com  
Project Name: Kaminsky 1-29  
Project Number: 008315064

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	CRD DRD	Volatiles		
SS14@25'	11/9/15	1000	1						X				X	X	X	
SS15@27'		1015	1						X							
SS16@25'		1030	1						X							
SS17@25'		1045	1						X							
SS18@25'		1100	1						X							
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/9/15 1630</u>				Received by: <u>[Signature]</u> Date/Time: <u>11/9/15 1630</u>				Turn Around Time (Check)				Notes:				
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/9/15 1700</u>				Received by: <u>[Signature]</u> Date/Time: <u>11-9 1700</u>				Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/>				Standard <input type="checkbox"/> on ice				
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/9/15 1700</u>				Received in Lab by: <u>[Signature]</u> Date/Time: <u>11-9 1700</u>				Sample Integrity: Temperature Upon Receipt: <u>5.3°C</u>								
								Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								

www.s2scientific.com



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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

**SB14@25'**  
**1511065-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/09/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>2400</b>	50	mg/kg	1	1511084	11/09/15	11/09/15	8015M	

Date Sampled: 11/09/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		135 %	30-150		"	"	"	"	

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

Date Sampled: 11/09/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Naphthalene</b>	<b>4.5</b>	1.0	mg/kg	100	1511083	11/09/15	11/09/15	EPA 8260B	
<b>Benzene</b>	<b>0.11</b>	0.0020	"	1	"	"	"	"	
<b>Toluene</b>	<b>17</b>	0.50	"	100	"	"	11/09/15	"	
<b>Ethylbenzene</b>	<b>9.0</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>98</b>	1.0	"	"	"	"	11/09/15	"	
<b>Gasoline Range Hydrocarbons</b>	<b>3400</b>	50	"	"	"	"	11/09/15	"	

Date Sampled: 11/09/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	23-173		"	"	11/09/15	"	
<i>Surrogate: Toluene-d8</i>		129 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

**SB15@27'**  
**1511065-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/09/15 10:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>650</b>	50	mg/kg	1	1511084	11/09/15	11/09/15	8015M	

Date Sampled: 11/09/15 10:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		106 %	30-150		"	"	"	"	

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

Date Sampled: 11/09/15 10:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Naphthalene</b>	<b>0.26</b>	0.010	mg/kg	1	1511083	11/09/15	11/09/15	EPA 8260B	
<b>Benzene</b>	<b>0.0039</b>	0.0020	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.19</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.37</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>9.6</b>	1.0	"	100	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>940</b>	50	"	"	"	"	"	"	

Date Sampled: 11/09/15 10:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

**SB16@25'**  
**1511065-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1511084	11/09/15	11/09/15	8015M	

Date Sampled: 11/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

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

Date Sampled: 11/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1511083	11/09/15	11/09/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 11/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

**SB17@25'**  
**1511065-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/09/15 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1200</b>	50	mg/kg	1	1511084	11/09/15	11/09/15	8015M	

Date Sampled: 11/09/15 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		103 %	30-150		"	"	"	"	

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

Date Sampled: 11/09/15 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Naphthalene</b>	<b>0.30</b>	0.010	mg/kg	1	1511083	11/09/15	11/09/15	EPA 8260B	
<b>Benzene</b>	<b>0.0073</b>	0.0020	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.091</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.86</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>26</b>	1.0	"	100	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1500</b>	50	"	"	"	"	"	"	

Date Sampled: 11/09/15 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

**SB18@25'**  
**1511065-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/09/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1511084	11/09/15	11/09/15	8015M	

Date Sampled: 11/09/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.2 %	30-150		"	"	"	"	

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

Date Sampled: 11/09/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1511083	11/09/15	11/09/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 11/09/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

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

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

**Batch 1511084 - EPA 3550A**

<b>Blank (1511084-BLK1)</b>				Prepared & Analyzed: 11/09/15							
C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.2		102	30-150				
<b>LCS (1511084-BS1)</b>				Prepared & Analyzed: 11/09/15							
C10-C28 (DRO)	526	50	mg/kg	499		105	73-134				
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.2		106	30-150				
<b>Matrix Spike (1511084-MS1)</b>				Source: 1511065-03		Prepared & Analyzed: 11/09/15					
C10-C28 (DRO)	493	50	mg/kg	482	41.9	93.7	50-148				
Surrogate: <i>o</i> -Terphenyl	11.8		"	11.8		100	30-150				
<b>Matrix Spike Dup (1511084-MSD1)</b>				Source: 1511065-03		Prepared & Analyzed: 11/09/15					
C10-C28 (DRO)	481	50	mg/kg	477	41.9	92.0	50-148	2.62		13	
Surrogate: <i>o</i> -Terphenyl	11.6		"	11.7		99.4	30-150				

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

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

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

**Batch 1511083 - EPA 5030 Soil MS**

**Blank (1511083-BLK1)**

Prepared & Analyzed: 11/09/15

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0456</i>		<i>"</i>	<i>0.0396</i>		<i>115</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>21-167</i>			

**LCS (1511083-BS1)**

Prepared & Analyzed: 11/09/15

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0796	0.0020	"	0.100		79.6	58-130			
Toluene	0.0884	0.0050	"	0.100		88.4	61-134			
Ethylbenzene	0.105	0.0050	"	0.0992		106	74-139			
m,p-Xylene	0.204	0.010	"	0.200		102	73-137			
o-Xylene	0.102	0.0050	"	0.0984		104	73-141			
Xylenes (total)	0.306	0.010	"				0-200			
Gasoline Range Hydrocarbons	2.73	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0455</i>		<i>"</i>	<i>0.0396</i>		<i>115</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.7</i>	<i>21-167</i>			

**Matrix Spike (1511083-MS1)**

Source: 1511065-03

Prepared & Analyzed: 11/09/15

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0762	0.0020	"	0.0933	ND	81.7	30-131			
Toluene	0.0871	0.0050	"	0.0933	0.00444	88.6	30-134			
Ethylbenzene	0.0999	0.0050	"	0.0925	ND	108	22-153			
m,p-Xylene	0.198	0.010	"	0.186	0.00801	102	10-159			
o-Xylene	0.0988	0.0050	"	0.0918	ND	108	31-151			
Xylenes (total)	0.297	0.010	"		0.00801		30-160			
Gasoline Range Hydrocarbons	2.53	0.50	"		0.257		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0466</i>		<i>"</i>	<i>0.0369</i>		<i>126</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0362</i>		<i>"</i>	<i>0.0373</i>		<i>96.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0364</i>		<i>"</i>	<i>0.0373</i>		<i>97.6</i>	<i>21-167</i>			

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
11/10/15 06:32

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

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

**Batch 1511083 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1511083-MSD1)</b>	<b>Source: 1511065-03</b>			<b>Prepared &amp; Analyzed: 11/09/15</b>						
Naphthalene	ND	0.010	mg/kg	ND			10-158		42	
Benzene	0.0744	0.0020	"	0.0933	ND	79.7	30-131	2.49	34	
Toluene	0.0841	0.0050	"	0.0933	0.00444	85.4	30-134	3.56	30	
Ethylbenzene	0.0978	0.0050	"	0.0925	ND	106	22-153	2.09	24	
m,p-Xylene	0.194	0.010	"	0.186	0.00801	99.9	10-159	1.87	68	
o-Xylene	0.0981	0.0050	"	0.0918	ND	107	31-151	0.767	38	
Xylenes (total)	0.292	0.010	"		0.00801		30-160	1.50	30	
Gasoline Range Hydrocarbons	2.56	0.50	"		0.257		30-160	0.883	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0457</i>		<i>"</i>	<i>0.0369</i>		<i>124</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0359</i>		<i>"</i>	<i>0.0373</i>		<i>96.3</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0362</i>		<i>"</i>	<i>0.0373</i>		<i>97.0</i>	<i>21-167</i>			

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

**Reported:**  
11/10/15 06:32

### 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

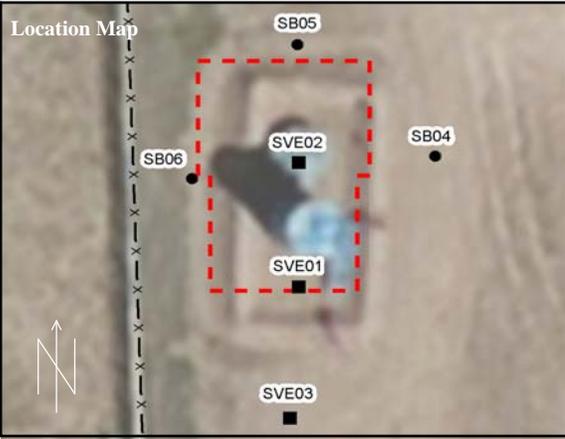
---

Summit Scientific

*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.*

**ATTACHMENT 2**

**SOIL BORING LOGS/WELL COMPLETION DIAGRAMS**



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29  
**PROJECT NO.:** 008315064 **LOGGED BY:** Dan Hosler  
**BORING/WELL ID.:** SVE01 **SAMPLE MTHD:** Continuous  
**COMPLETION DATE:** 12/14/2015 **DRILL MTHD:** 8" Hollow Stem  
**TD (ft bgs):** 35' **DRILLED BY:** Elite Drilling  
**DTW (ft bgs):** 30.0' **DETECTOR:** UltraRae 3000  
**SCREEN SLOT:** 0.01" **FILTER PACK:** 10-20 silica sand  
**CASING LENGTH:** 23.0' **ANNULUS SEAL:** Bentonite chips  
**SCREEN LENGTH:** 5.0' **SURFACE SEAL:** Cement/bentonite slurry

**HOLE DIAMETER.:** 8.00"  
**WELL DIAMETER:** 2.0"  
**CASING TYPE:** PVC  
**SCREEN TYPE:** PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	Backfill		Backfill: SAND - 0.0' - 25.0' - fine grained, clayey, brown, dry, no odor, no staining (logged from cuttings)	
1.20		Moist		0/25	25	SM		SM: SAND - 25.0' - 35.0' - silty, light brown, moist, wet at 30' bgs, no odor, no staining	
1.65			SVE01 @28'	5/5	30				
0.90		Wet		5/5	35				
Well set at 28' bgs									



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29  
**PROJECT NO.:** 008315064 **LOGGED BY:** Dan Hosler  
**BORING/WELL ID.:** SVE02 **SAMPLE MTHD:** Continuous  
**COMPLETION DATE:** 12/14/2015 **DRILL MTHD:** 8" Hollow Stem  
**TD (ft bgs):** 30' **DRILLED BY:** Elite Drilling  
**DTW (ft bgs):** NA **DETECTOR:** UltraRae 3000  
**SCREEN SLOT:** 0.01" **FILTER PACK:** 10-20 silica sand  
**CASING LENGTH:** 23.0' **ANNULUS SEAL:** Bentonite chips  
**SCREEN LENGTH:** 5.0' **SURFACE SEAL:** Cement/bentonite slurry

**HOLE DIAMETER.:** 8.00"  
**WELL DIAMETER:** 2.0"  
**CASING TYPE:** PVC  
**SCREEN TYPE:** PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	Backfill		Backfill: SAND - 0.0' - 10.0' - fine grained, clayey, brown, dry, no odor, no staining (logged from cuttings)	
		Dry		0/10	5				
14.30		Dry		5/5	10	SC		SC: SAND - 10.0' - 17.0' - fine grained, clayey, brown, little gravel, dry, no odor, no staining	
19.70					15				
20.90		Moist	SVE02 @ 19'	5/5	17.0	SM		SM: SAND - 17.0' - 30.0' - silty, light brown, moist, laminated, hydrocarbon stain and odor in laminated lenses from 17'-23' bgs	
27.65					20				
0.90				5/5	25				
0.80					25				
0.75					25				
0.60				5/5	30			Well set at 28' bgs	



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29

**PROJECT NO.:** 008315064

**BORING/WELL ID.:** SVE03

**COMPLETION DATE:** 12/14/2015

**TD (ft bgs):** 30'

**DTW (ft bgs):** NA

**SCREEN SLOT:** 0.01"

**CASING LENGTH:** 23.0'

**SCREEN LENGTH:** 5.0'

**LOGGED BY:** Dan Hosler

**SAMPLE MTHD:** Continuous

**DRILL MTHD:** 8" Hollow Stem

**DRILLED BY:** Elite Drilling

**DETECTOR:** UltraRae 3000

**FILTER PACK:** 10-20 silica sand

**ANNULUS SEAL:** Bentonite chips

**SURFACE SEAL:** Cement/bentonite slurry

**HOLE DIAMETER.:** 8.00"

**WELL DIAMETER:** 2.0"

**CASING TYPE:** PVC

**SCREEN TYPE:** PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.60		Moist		5/5	0	SC		SC: SAND - 0.0' - 18.0' - fine grained, clayey, clay content decreasing with depth, brown, moist, no odor, no staining, some carbonate stringers	
0.60				5/5	5				
0.50				5/5	10				
0.60				5/5	15				
0.80				5/5	20	SM		SM: SAND - 18.0' - 30.0' - silty, light brown, moist, laminated, no odor, no staining, hard at 28' bgs	
0.40		Moist		5/5	25				
0.30			SVE03 @ 25'	5/5	30			Well set at 28' bgs	
0.30				5/5					
0.30				5/5					
2.75				5/5					
0.25				5/5					
0.25				5/5					



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29  
**PROJECT NO.:** 008315064 **LOGGED BY:** Dan Hosler  
**BORING/WELL ID.:** SB04 **SAMPLE MTHD:** Continuous  
**COMPLETION DATE:** 12/17/2015 **DRILL MTHD:** 8" Hollow Stem  
**TD (ft bgs):** 30' **DRILLED BY:** Elite Drilling  
**DTW (ft bgs):** NA **DETECTOR:** UltraRae 3000  
**SCREEN SLOT:** NA **FILTER PACK:** 10-20 silica sand  
**CASING LENGTH:** NA **ANNULUS SEAL:** Bentonite chips  
**SCREEN LENGTH:** NA **SURFACE SEAL:** NA

**HOLE DIAMETER.:** 8.00"  
**WELL DIAMETER:** NA  
**CASING TYPE:** NA  
**SCREEN TYPE:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.00		Dry		5/5	0	SC		SC: SAND - 0.0' - 15.0' - fine grained, clayey, clay content decreasing with depth, brown, dry, no odor, no staining, some carbonate stringers	
0.00					5				
0.25				0.25/5	10				
0.40		Dry		1/5	15	SM		SM: SAND - 15.0' - 30.0' - silty, light brown, dry, laminated, no odor, no staining 4" laminated clay lense at 18' bgs oxidation lamination at 20' bgs hard at 28' bgs 6" dark gray claystone lense at 28' bgs	
0.45				5/5	20				
0.50					25				
0.70				5/5	30				
0.70			SB04 @26'	5/5					



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29  
**PROJECT NO.:** 008315064 **LOGGED BY:** Dan Hosler  
**BORING/WELL ID.:** SB05 **SAMPLE MTHD:** Continuous  
**COMPLETION DATE:** 12/17/2015 **DRILL MTHD:** 8" Hollow Stem  
**TD (ft bgs):** 30' **DRILLED BY:** Elite Drilling  
**DTW (ft bgs):** NA **DETECTOR:** UltraRae 3000  
**SCREEN SLOT:** NA **FILTER PACK:** 10-20 silica sand  
**CASING LENGTH:** NA **ANNULUS SEAL:** Bentonite chips  
**SCREEN LENGTH:** NA **SURFACE SEAL:** NA

**HOLE DIAMETER.:** 8.00"  
**WELL DIAMETER:** NA  
**CASING TYPE:** NA  
**SCREEN TYPE:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.00		Dry		5/5	0	SW		SW: SAND - 0.0' - 5.0' - gravelly, little clay, brown, dry, no odor, no staining	
1.05		Moist	SB05 @4'	5/5	5	SC		SC: SAND - 5.0' - 16.0' - fine grained, clayey, clay content decreasing with depth, brown, moist, no odor, no staining, some carbonate stringers, iron lamination at 15' bgs	
0.00		Dry		5/5	15	SM		SM: SAND - 16.0' - 30.0' - silty, light brown, dry, laminated, no odor, no staining, iron oxidation lamination	
0.00				5/5	20				
0.00				5/5	25				
0.00				5/5	30				



Compliance • Engineering • Remediation  
**LT Environmental, Inc.**  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

**PROJECT NAME:** Kaminsky 1-29  
**PROJECT NO.:** 008315064 **LOGGED BY:** Dan Hosler  
**BORING/WELL ID.:** SB06 **SAMPLE MTHD:** Continuous  
**COMPLETION DATE:** 12/17/2015 **DRILL MTHD:** 8" Hollow Stem  
**TD (ft bgs):** 30' **DRILLED BY:** Elite Drilling  
**DTW (ft bgs):** NA **DETECTOR:** UltraRae 3000  
**SCREEN SLOT:** NA **FILTER PACK:** 10-20 silica sand  
**CASING LENGTH:** NA **ANNULUS SEAL:** Bentonite chips  
**SCREEN LENGTH:** NA **SURFACE SEAL:** NA

**HOLE DIAMETER.:** 8.00"  
**WELL DIAMETER:** NA  
**CASING TYPE:** NA  
**SCREEN TYPE:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.00		Dry			0	SC		SC: SAND - 0.0' - 15.0' - fine grained, clayey, clay content decreasing with depth, brown, dry, no odor, no staining, some carbonate stringers	
0.00					5				
0.00					10				
0.00					15	SM		SM: SAND - 15.0' - 30.0' - silty, light brown, dry, laminated, no odor, no staining, iron oxidation lamination	
0.00		Dry			20				
0.00					25				
0.00					30				
0.00			SB06 @ 30'						

**ATTACHMENT 3**

**SOIL BORING LABORATORY ANALYTICAL REPORT**

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 23, 2015

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Kaminsky 1-29

Enclosed are the results of analyses for samples received by Summit Scientific on 12/17/15 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

**Reported:**  
12/23/15 08:57

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE01@28'	1512148-01	Soil	12/14/15 10:00	12/17/15 16:00
SVE02@19'	1512148-02	Soil	12/14/15 14:00	12/17/15 16:00
SVE03@25'	1512148-03	Soil	12/14/15 15:30	12/17/15 16:00
GW01	1512148-04	Water	12/14/15 15:00	12/17/15 16:00
SB04@26'	1512148-05	Soil	12/17/15 11:00	12/17/15 16:00
SB05@4'	1512148-06	Soil	12/17/15 12:30	12/17/15 16:00
SB06@30'	1512148-07	Soil	12/17/15 13:30	12/17/15 16:00

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

# Summit Scientific

1512148

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9310 • 303-374-5933 Fax

Page 1 of 8

Client: LT Environmental, Inc.  
Address: 4600 West 60th Ave  
City/State/Zip: Arvada, CO 80003  
Phone: 303-433-9788 Fax: 303-433-1432  
Sampler Name: DHester

Project Manager: Chris Roy  
E-Mail: croym@ltenv.com + Noble Ron  
Project Name: Kaminsky 1-29  
Project Number: 008315064

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DTIC	SRD DRD	NpH <sub>4</sub>	
SVE01@25'	12/14/15	1000	1					X				X	X	X	
SVE02@19'	↓	1400	1					X				↓	↓	↓	
SVE03@25'	↓	1530	1					X				↓	↓	↓	
<del>SRO4@26'</del>	↓	1500	3					X							
SRO4@26'	12/17/15	1100	1					X				X	X		
SRO5@24'	↓	1230	1					X				↓	↓	↓	
SRO6@30'	↓	1330	1					X				↓	↓	↓	
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/17/15 1600</u>				Received by: <u>[Signature]</u> Date/Time: <u>12/17/15 1600</u>				Turn Around Time (Check)				Notes:			
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/17/15 1835</u>				Received by: <u>[Signature]</u> Date/Time: <u>12/17/15 1600</u>				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>			
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/17/15 1835</u>				Received in Lab by: <u>[Signature]</u> Date/Time: <u>12/17/15 1600</u>				Sample Integrity: Temperature Upon Receipt: <u>3.7°C</u>				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

www.s2scientific.com



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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SVE01@28'**  
**1512148-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/14/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/14/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.2 %	30-150		"	"	"	"	

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

Date Sampled: 12/14/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/14/15 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SVE02@19'**  
**1512148-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/14/15 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/14/15 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.6 %	30-150		"	"	"	"	

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

Date Sampled: 12/14/15 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/14/15 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SVE03@25'**  
**1512148-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/14/15 15:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/14/15 15:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.9 %	30-150		"	"	"	"	

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

Date Sampled: 12/14/15 15:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/14/15 15:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
 Project Manager: Chris Roy

**Reported:**  
 12/23/15 08:57

**GW01**  
**1512148-04 (Water)**

**Summit Scientific**

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

Date Sampled: 12/14/15 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1512188	12/22/15	12/22/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/14/15 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		103 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	45-146		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SB04@26'**  
**1512148-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/17/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/17/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.4 %	30-150		"	"	"	"	

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

Date Sampled: 12/17/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/17/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SB05@4'**  
**1512148-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/17/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/17/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.2 %	30-150		"	"	"	"	

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

Date Sampled: 12/17/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/17/15 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

**SB06@30'**  
**1512148-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/17/15 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512175	12/18/15	12/20/15	8015M	

Date Sampled: 12/17/15 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.6 %	30-150		"	"	"	"	

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

Date Sampled: 12/17/15 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512174	12/18/15	12/18/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 12/17/15 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

**Reported:**  
12/23/15 08:57

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

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

**Batch 1512175 - EPA 3550A**

**Blank (1512175-BLK1)**

Prepared & Analyzed: 12/18/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	11.2		"	12.5		89.8	30-150				

**LCS (1512175-BS1)**

Prepared & Analyzed: 12/18/15

C10-C28 (DRO)	514	50	mg/kg	499		103	73-134				
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.5		99.5	30-150				

**Matrix Spike (1512175-MS1)**

Source: 1512156-01

Prepared & Analyzed: 12/18/15

C10-C28 (DRO)	500	50	mg/kg	487	22.6	98.0	50-148				
<i>Surrogate: o-Terphenyl</i>	11.8		"	12.2		96.5	30-150				

**Matrix Spike Dup (1512175-MSD1)**

Source: 1512156-01

Prepared & Analyzed: 12/18/15

C10-C28 (DRO)	478	50	mg/kg	461	22.6	98.8	50-148	4.57	13		
<i>Surrogate: o-Terphenyl</i>	11.2		"	11.6		96.8	30-150				

Summit Scientific

*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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

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

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

**Batch 1512174 - EPA 5030 Soil MS**

**Blank (1512174-BLK1)**

Prepared: 12/18/15 Analyzed: 12/19/15

Naphthalene	ND	0.010	mg/kg								
Benzene	ND	0.0020	"								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0431</i>		"	<i>0.0400</i>		<i>108</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		"	<i>0.0400</i>		<i>96.6</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0428</i>		"	<i>0.0400</i>		<i>107</i>	<i>21-167</i>				

**LCS (1512174-BS1)**

Prepared: 12/18/15 Analyzed: 12/19/15

Naphthalene	0.155	0.010	mg/kg	0.150		103	66-138				
Benzene	0.149	0.0020	"	0.150		99.1	58-130				
Toluene	0.145	0.0050	"	0.150		96.7	61-134				
Ethylbenzene	0.147	0.0050	"	0.150		98.2	74-139				
m,p-Xylene	0.289	0.010	"	0.300		96.4	73-137				
o-Xylene	0.148	0.0050	"	0.150		98.4	73-141				
Xylenes (total)	0.437	0.010	"				0-200				
Gasoline Range Hydrocarbons	8.15	0.50	"				30-150				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		"	<i>0.0400</i>		<i>109</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		"	<i>0.0400</i>		<i>101</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0411</i>		"	<i>0.0400</i>		<i>103</i>	<i>21-167</i>				

**Matrix Spike (1512174-MS1)**

Source: 1512124-01

Prepared: 12/18/15 Analyzed: 12/19/15

Naphthalene	0.0381	0.010	mg/kg	0.145	ND	26.2	10-158				
Benzene	0.108	0.0020	"	0.145	ND	74.1	30-131				
Toluene	0.0961	0.0050	"	0.145	ND	66.1	30-134				
Ethylbenzene	0.0931	0.0050	"	0.145	ND	64.0	22-153				
m,p-Xylene	0.173	0.010	"	0.291	ND	59.6	10-159				
o-Xylene	0.0894	0.0050	"	0.145	ND	61.5	31-151				
Xylenes (total)	0.263	0.010	"		0.00		30-160				
Gasoline Range Hydrocarbons	4.60	0.50	"		ND		30-160				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0438</i>		"	<i>0.0388</i>		<i>113</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0390</i>		"	<i>0.0388</i>		<i>101</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		"	<i>0.0388</i>		<i>97.4</i>	<i>21-167</i>				

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

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

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

**Batch 1512174 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1512174-MSD1)</b>	<b>Source: 1512124-01</b>			Prepared: 12/18/15		Analyzed: 12/19/15				
Naphthalene	0.136	0.010	mg/kg	0.143	ND	95.2	10-158	113	42	QM-07
Benzene	0.0970	0.0020	"	0.143	ND	67.8	30-131	10.4	34	
Toluene	0.0829	0.0050	"	0.143	ND	57.9	30-134	14.7	30	
Ethylbenzene	0.0781	0.0050	"	0.143	ND	54.6	22-153	17.4	24	
m,p-Xylene	0.145	0.010	"	0.286	ND	50.5	10-159	18.0	68	
o-Xylene	0.0759	0.0050	"	0.143	ND	53.1	31-151	16.2	38	
Xylenes (total)	0.220	0.010	"		0.00		30-160	17.4	30	
Gasoline Range Hydrocarbons	3.95	0.50	"		ND		30-160	15.2	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0435</i>		<i>"</i>	<i>0.0382</i>		<i>114</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0382</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0382</i>		<i>98.7</i>	<i>21-167</i>			

**Batch 1512188 - EPA 5030 Water MS**

<b>Blank (1512188-BLK1)</b>	Prepared & Analyzed: 12/21/15									
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.9</i>		<i>"</i>	<i>13.3</i>		<i>112</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>45-146</i>			

<b>LCS (1512188-BS1)</b>	Prepared & Analyzed: 12/21/15									
Benzene	29.4	1.0	ug/l	33.3		88.1	51-132			
Toluene	33.2	1.0	"	33.3		99.5	51-138			
Ethylbenzene	38.8	1.0	"	33.1		117	58-146			
m,p-Xylene	77.1	2.0	"	66.5		116	57-144			
o-Xylene	34.5	1.0	"	32.8		105	53-146			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.3</i>		<i>"</i>	<i>13.3</i>		<i>115</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.7</i>	<i>45-146</i>			

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

Reported:  
12/23/15 08:57

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

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

**Batch 1512188 - EPA 5030 Water MS**

<b>Matrix Spike (1512188-MS1)</b>	<b>Source: 1512147-01</b>			<b>Prepared &amp; Analyzed: 12/21/15</b>						
Benzene	29.7	1.0	ug/l	33.3	ND	89.2	34-141			
Toluene	33.4	1.0	"	33.3	ND	100	27-151			
Ethylbenzene	38.6	1.0	"	33.1	ND	117	29-160			
m,p-Xylene	75.6	2.0	"	66.5	ND	114	20-166			
o-Xylene	34.3	1.0	"	32.8	ND	105	33-159			
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		116	37-154			
Surrogate: Toluene-d8	13.6		"	13.3		102	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	45-146			

<b>Matrix Spike Dup (1512188-MSD1)</b>	<b>Source: 1512147-01</b>			<b>Prepared &amp; Analyzed: 12/21/15</b>						
Benzene	29.6	1.0	ug/l	33.3	ND	88.8	34-141	0.506	32	
Toluene	33.6	1.0	"	33.3	ND	101	27-151	0.567	25	
Ethylbenzene	39.0	1.0	"	33.1	ND	118	29-160	1.19	50	
m,p-Xylene	76.4	2.0	"	66.5	ND	115	20-166	1.13	36	
o-Xylene	35.0	1.0	"	32.8	ND	107	33-159	1.96	26	
Surrogate: 1,2-Dichloroethane-d4	16.8		"	13.3		126	37-154			
Surrogate: Toluene-d8	13.5		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	45-146			

Summit Scientific

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

Project: Kaminsky 1-29

Project Number: 008315064  
Project Manager: Chris Roy

**Reported:**  
12/23/15 08:57

### Notes and Definitions

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

---

Summit Scientific

*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.*