



Kerr-McGee Oil & Gas Onshore LP  
1099 18<sup>th</sup> Street, Suite 1800  
Denver, Colorado 80202  
720-929-6000 Fax 720-929-7000

April 9, 2012

Mr. John Axelson  
Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203

**Re: No Further Action Status Request  
Frank 18-8, 6-8, Zeiler 22-8, 19-8  
COGCC Remediation No. 5187  
SENW 8-T5N-R67W**

Dear Mr. Axelson:

Kerr-McGee Oil and Gas Onshore, LP (Kerr-McGee) is submitting this letter report as an update to the Form 27, submitted on June 14, 2010, for the Frank 18-8, 6-8, Zeiler 22-8, 19-8 tank battery. We are requesting a No Further Action (NFA) status for this site.

On December 29, 2009, the dumpline between two production tanks froze and cracked releasing approximately five barrels of condensate within the tank battery berm. Kerr-McGee contracted LT Environmental, Inc. (LTE) to oversee excavation activities, collect confirmation soil samples, perform quarterly groundwater monitoring, and interpret the analytical results. The wells were shut in and approximately 680 cubic yards of petroleum hydrocarbon impacted soil was excavated. The impacted soil was transported to the Waste Connections landfill in Erie, Colorado for disposal.

Confirmation soil samples were collected from the excavation sidewalls and submitted for total petroleum hydrocarbon (TPH) analysis by Environmental Protection Agency (EPA) Methods 8015 and 8260B, and benzene, toluene, ethylbenzene and xylenes (BTEX) analysis by EPA Method 8260B. The analytical results confirmed that TPH and BTEX concentrations were below the Colorado Oil and Gas Conservation Commission's (COGCC) allowable levels at the extent of excavation.

Groundwater was encountered in the excavation at approximately 14 feet below ground surface. One groundwater sample (GW01) was collected from the open excavation and submitted for BTEX analysis by EPA Method 8260B. Laboratory results for the excavation groundwater sample indicated that BTEX concentrations exceeded the Colorado Groundwater Quality Standards (CGWQS). Approximately 43 barrels of impacted groundwater were removed from the excavation using a vacuum truck and transported to a licensed injection facility for disposal. Following groundwater removal, ten gallons of MicroBlaze<sup>®</sup> microbial solution were applied to

the groundwater and exposed smear zone prior to backfilling the excavation. The excavation area was restored to its pre-release grade and Kerr-McGee's production facility remains at the site.

In order to assess the extent and magnitude of the residual dissolved phase groundwater impacts, three monitoring wells (MW01 through MW03) were installed at the site in April 2010. The benzene concentration in MW03 exceeded the CGWQS during the initial groundwater sampling event conducted in April 2010. Two additional monitoring wells (TMW04 and TMW05) were installed down-gradient of MW03 in December 2010. BTEX concentrations in TMW04 and TMW05 were below the CGWQS during the January 2011 quarterly sampling event. MW01, MW02, TMW04, and TMW05 were designated as point of compliance wells and groundwater monitoring continued on a quarterly basis.

It should be noted that TMW04 and TMW05 were originally intended as temporary monitoring wells that would be removed at the start of each growing season in the Spring and re-installed after the field was harvested in the Fall. However, the landowner at this site permitted TMW04 and TMW05 to remain in place during the 2011 growing season based on the expectation that site closure would be achieved prior to the 2012 growing season.

As of the October 2011 sampling event, BTEX concentrations in all five monitoring wells (MW01 through TMW05) have remained below the CGWQS for four consecutive quarterly groundwater monitoring events. A Site Map showing the general site layout, excavation outline, and monitoring well locations is provided as Figure 1. The groundwater results are summarized in Table 1 and the laboratory analytical reports are attached.

Remedial actions employed at the site included excavation of the source area, removal of impacted groundwater from the open excavation, and application of the MicroBlaze<sup>®</sup> groundwater amendment. Based on these remedial actions and groundwater sample analytical results showing BTEX concentrations below the CGWQS for four consecutive quarterly monitoring events, Kerr-McGee is requesting NFA status for this site.

Feel free to contact me at 720-929-6726 if you have any questions regarding this information.

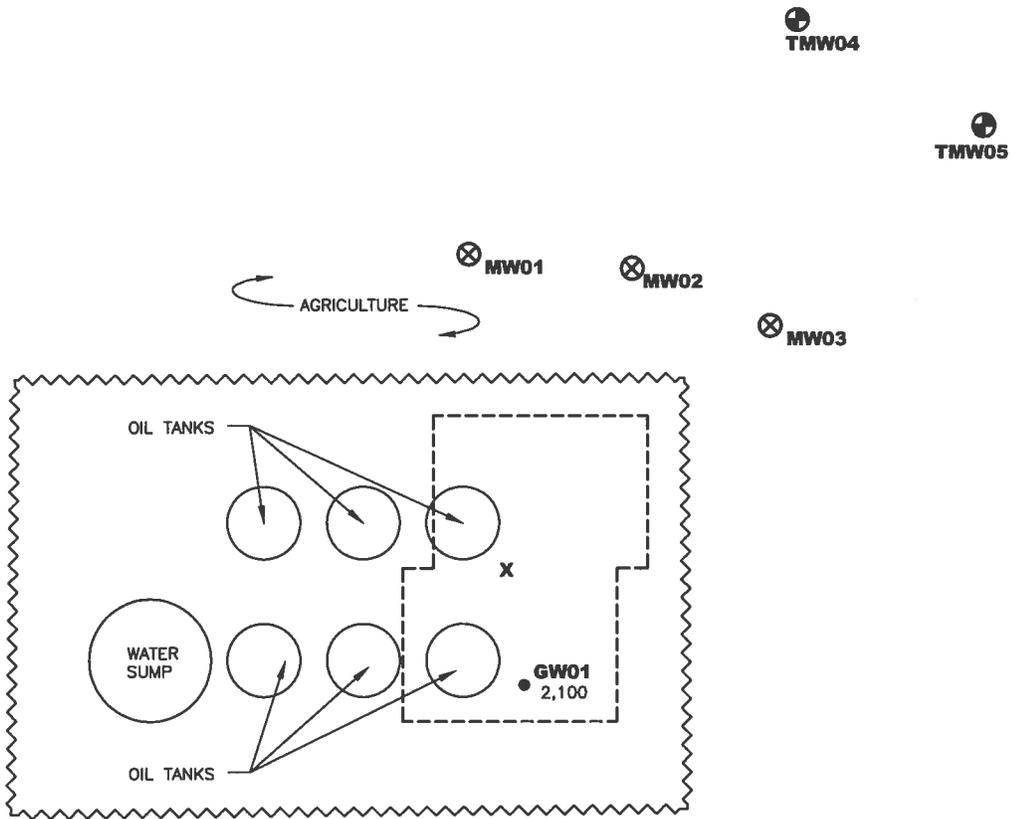
Sincerely,

Kerr-McGee Oil & Gas Onshore LP



Paul D. Schneider, P.G.  
Senior Staff EHS Representative

Attachments

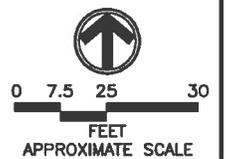


LEASE ROAD

**LEGEND**

-  MONITORING WELL
-  TEMPORARY MONITORING WELL
-  EXCAVATION GROUNDWATER SAMPLE
- B:** BENZENE CONCENTRATION IN MICROGRAMS PER LITER
-  STEEL BERM
- X** RELEASE
-  EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

SOURCE:  
GPS COORDINATE  
SYSTEM



**FIGURE 1**  
**SITE MAP**  
FRANK 18-8, 6-8, ZEILER 22-8, 19-8  
SENW 8-T5N-R67W  
WELD COUNTY, CO  
KERR-McGEE OIL & GAS ONSHORE LP



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**FRANK 18-8, 6-8, ZEILER 22-8, 19-8**  
**WELD COUNTY, COLORADO**  
**KERR-McGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Depth Water/ (Depth Product) (ft bgs)
GW01	01/19/2010	<b>2100</b>	<b>2400</b>	140	<b>2500</b>	NM
MW01	04/17/2010	<1.0	<1.0	<1.0	<1.0	13.03
	07/08/2010	<1.0	<1.0	<1.0	<1.0	12.41
	10/01/2010	<1.0	<1.0	<1.0	<1.0	11.79
	01/11/2011	<1.0	<1.0	<1.0	<1.0	12.60
	04/04/2011	<1.0	<1.0	<1.0	<1.0	13.10
	07/26/2011	<1.0	<1.0	<1.0	<1.0	12.09
	10/11/2011	<1.0	<1.0	<1.0	<1.0	12.74
MW02	04/17/2010	<1.0	<1.0	<1.0	<1.0	13.29
	07/08/2010	<1.0	<1.0	<1.0	<1.0	12.67
	10/01/2010	<1.0	<1.0	<1.0	<1.0	12.03
	01/11/2011	<1.0	<1.0	<1.0	<1.0	12.95
	04/04/2011	<1.0	<1.0	<1.0	<1.0	13.34
	07/26/2011	<1.0	<1.0	<1.0	<1.0	12.37
	10/11/2011	<1.0	<1.0	<1.0	<1.0	13.03
MW03	04/17/2010	<b>66</b>	<1.0	<1.0	6.5	13.46
	07/08/2010	<b>130</b>	<1.0	<1.0	2.7	12.79
	10/01/2010	<b>210</b>	<1.0	<1.0	<1.0	12.16
	01/11/2011	1.4	<1.0	<1.0	<1.0	13.11
	04/04/2011	<1.0	<1.0	<1.0	<1.0	13.46
	07/26/2011	<1.0	<1.0	<1.0	<1.0	12.44
	10/11/2011	2.2	<1.0	<1.0	<1.0	13.08
TMW04	01/11/2011	<1.0	<1.0	<1.0	<1.0	12.70
	04/04/2011	<1.0	<1.0	<1.0	<1.0	13.07
	07/26/2011	<1.0	<1.0	<1.0	<1.0	12.09
	10/11/2011	<1.0	<1.0	<1.0	<1.0	12.81
TMW05	01/11/2011	<1.0	<1.0	<1.0	<1.0	13.04
	04/04/2011	<1.0	<1.0	<1.0	<1.0	12.09
	07/26/2011	<1.0	<1.0	<1.0	<1.0	12.11
	10/11/2011	<1.0	<1.0	<1.0	<1.0	12.78
<b>Colo GW Quality Standards</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>	

Notes: NM - Not Measured  
ug/L - micrograms per Liter  
NA - Not Analyzed/Not Available

GW - Groundwater                      ft bgs - feet below ground surface  
< - less than laboratory reporting limit  
Bold numbers indicate result equaled or exceeded standard.



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 18, 2011

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

RE: KMG - Frank 18-8 / Zeiler 22-8

Enclosed are the results of analyses for samples received by Summit Scientific on 01/11/11 17:00. 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  
President / Laboratory Director

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R101055-01	Water	01/11/11 13:50	01/11/11 17:00
MW02	R101055-02	Water	01/11/11 14:00	01/11/11 17:00
MW03	R101055-03	Water	01/11/11 14:10	01/11/11 17:00
TM04	R101055-04	Water	01/11/11 14:20	01/11/11 17:00
TM05	R101055-05	Water	01/11/11 14:30	01/11/11 17:00

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.*

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

Page 1 of 1

**Summit Scientific** K101055

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

Client: LT Environmental, Inc.  
Project: KMG - Frank 18-8 / Zeiler 22-8

Project Manager: John Cocroft  
Project Number: KMG 08420

Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	Field Sample	1-11-11	11:30	JE	Voa Vial - HCl	3	8260B BTEX_TNVL
02-001	MW02	Water	Field Sample	1-11-11	1:00		Voa Vial - HCl	3	8260B BTEX_TNVL
03-001	MW03	Water	Field Sample	1-11-11	1:30		Voa Vial - HCl	3	8260B BTEX_TNVL

Turn Around Time (Check)

Same Day  24 Hours  Standard   
 1 Hour  18 Hours

Sample Integrity: 1.7  
 Temperature Upon Receipt 1.7  
 Insect  No

Relinquished By: John C Date/Time: 1-11-11 5:00pm

Received By: AS Date/Time: 1-11-11 5:00pm

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**MW01**  
**R101055-01 (Water)**

**Summit Scientific**

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

Date Sampled: 01/11/11 13:50

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1011206	01/12/11	01/13/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 01/11/11 13:50

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		80.8-120		"	"	"	"	

Summit Scientific



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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**MW02**  
**R101055-02 (Water)**

**Summit Scientific**

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

Date Sampled: 01/11/11 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1011206	01/12/11	01/13/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/11/11 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.7 %	80.8-120		"	"	"	"	

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

MW03  
R101055-03 (Water)

Summit Scientific

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

Date Sampled: 01/11/11 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.4	1.0	ug/l	1	1011206	01/12/11	01/13/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/11/11 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		100 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80.8-120		"	"	"	"	

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

Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**TM04**  
**R101055-04 (Water)**

**Summit Scientific**

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

Date Sampled: 01/11/11 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1011206	01/12/11	01/13/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/11/11 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	80.8-120		"	"	"	"	

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**TM05**  
**R101055-05 (Water)**

**Summit Scientific**

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

Date Sampled: 01/11/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1011206	01/12/11	01/13/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/11/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		109 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80.8-120		"	"	"	"	

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

Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**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 1011206 - EPA 5030 Water MS**

**Blank (1011206-BLK1)**

Prepared: 01/12/11 Analyzed: 01/13/11

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>15.2</i>		<i>"</i>	<i>13.3</i>	<i>114</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>	<i>108</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>15.7</i>		<i>"</i>	<i>13.3</i>	<i>118</i>	<i>80.8-120</i>				

**LCS (1011206-BS1)**

Prepared: 01/12/11 Analyzed: 01/13/11

Benzene	31.5	1.0	ug/l	33.3	94.4	60.1-131		10.9		
Toluene	32.7	1.0	"	33.3	98.1	65.9-127		11.3		
Ethylbenzene	33.4	1.0	"	33.3	100	65.1-129		20		
m,p-Xylene	69.5	2.0	"	66.7	104	66.8-127		20		
o-Xylene	33.5	1.0	"	33.3	100	61.2-120		20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>16.3</i>		<i>"</i>	<i>13.3</i>	<i>122</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>	<i>98.9</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>	<i>103</i>	<i>80.8-120</i>				

**LCS Dup (1011206-BSD1)**

Prepared: 01/12/11 Analyzed: 01/13/11

Benzene	32.1	1.0	ug/l	33.3	96.3	60.1-131	1.95	10.9		
Toluene	33.3	1.0	"	33.3	99.8	65.9-127	1.76	11.3		
Ethylbenzene	32.6	1.0	"	33.3	97.8	65.1-129	2.45	20		
m,p-Xylene	67.6	2.0	"	66.7	101	66.8-127	2.79	20		
o-Xylene	33.2	1.0	"	33.3	99.5	61.2-120	0.960	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>16.2</i>		<i>"</i>	<i>13.3</i>	<i>122</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.7</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>	<i>93.8</i>	<i>80.8-120</i>				

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

**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 1011206 - EPA 5030 Water MS**

<b>Matrix Spike (1011206-MS1)</b>		<b>Source: R101050-01</b>			<b>Prepared: 01/12/11</b>		<b>Analyzed: 01/13/11</b>				
Benzene	32.5	1.0	ug/l	33.3	2.28	90.6	52.7-130			19.3	
Toluene	33.9	1.0	"	33.3	ND	102	57-127			18.7	
Ethylbenzene	30.9	1.0	"	33.3	ND	92.8	59.2-127			20	
m,p-Xylene	61.8	2.0	"	66.7	ND	92.7	53.2-132			20	
o-Xylene	30.1	1.0	"	33.3	ND	90.3	56.3-117			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.3</i>		<i>"</i>	<i>13.3</i>		<i>92.6</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>12.1</i>		<i>"</i>	<i>13.3</i>		<i>91.1</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>80.8-120</i>				
<b>Matrix Spike Dup (1011206-MSD1)</b>		<b>Source: R101050-01</b>			<b>Prepared: 01/12/11</b>		<b>Analyzed: 01/13/11</b>				
Benzene	32.4	1.0	ug/l	33.3	2.28	90.3	52.7-130	0.339		19.3	
Toluene	38.8	1.0	"	33.3	ND	116	57-127	13.5		18.7	
Ethylbenzene	31.3	1.0	"	33.3	ND	94.0	59.2-127	1.32		20	
m,p-Xylene	62.2	2.0	"	66.7	ND	93.3	53.2-132	0.710		20	
o-Xylene	39.8	1.0	"	33.3	ND	119	56.3-117	27.6		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.2</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>15.1</i>		<i>"</i>	<i>13.3</i>		<i>113</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.3</i>	<i>80.8-120</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.*

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
01/18/11 14:13

### 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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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.*

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 05, 2011

John Cocroft  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: KMG - Frank 18-8 / Zeiler 22-8

Enclosed are the results of analyses for samples received by Summit Scientific on 04/04/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R104017-01	Water	04/04/11 14:10	04/04/11 17:00
MW02	R104017-02	Water	04/04/11 14:15	04/04/11 17:00
MW03	R104017-03	Water	04/04/11 14:20	04/04/11 17:00
TM04	R104017-04	Water	04/04/11 14:25	04/04/11 17:00
TM05	R104017-05	Water	04/04/11 14:30	04/04/11 17:00

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.*

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

R104017

Summit Scientific

741 Corporate Circle - Suite 1  
Golden, Colorado 80401  
303-777-9210 • 303-774-9933 Fax

Page 1 of 1

Client: LT Environmental, Inc.  
Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Manager: John Cocroft  
Project Number: KMG 08420

Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analytes
01-001	MW01	Water	Field Sample	4/4/11	1410	SB	New Vial - HCl	3	ES608 BTXEX_TYXL
02-001	MW02	Water	Field Sample	4/4/11	1415		New Vial - HCl	3	ES608 BTXEX_TYXL
03-001	MW03	Water	Field Sample	4/4/11	1420		New Vial - HCl	3	ES608 BTXEX_TYXL
04-001	TM04	Water	Field Sample	4/4/11	1425		New Vial - HCl	3	ES608 BTXEX_TYXL
05-001	TM05	Water	Field Sample	4/4/11	1430		New Vial - HCl	3	ES608 BTXEX_TYXL

Turn Around Time (Check)

Same Day   
24 Hours   
48 Hours   
72 Hours   
Standard

Sample Integrity:

Temperature Upon Receipt: 5.4  
Inoc:  No

Relinquished By: AB Date/Time: 4-4-11 5:15

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: AB Date/Time: 4-4-11 17:00

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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.

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**MW01**  
**R104017-01 (Water)**

**Summit Scientific**

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

Date Sampled: 04/04/11 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040405	04/04/11	04/05/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/04/11 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	80.8-120		"	"	"	"	

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.

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**MW02**  
**R104017-02 (Water)**

**Summit Scientific**

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

Date Sampled: 04/04/11 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040405	04/04/11	04/05/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/04/11 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	80.8-120		"	"	"	"	

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.

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**MW03**  
**R104017-03 (Water)**

**Summit Scientific**

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

Date Sampled: 04/04/11 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040405	04/04/11	04/05/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/04/11 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	80.8-120		"	"	"	"	

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.

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**TM04**  
**R104017-04 (Water)**

**Summit Scientific**

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

Date Sampled: 04/04/11 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040405	04/04/11	04/05/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/04/11 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80.8-120		"	"	"	"	

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.

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**TM05**  
**R104017-05 (Water)**

**Summit Scientific**

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

Date Sampled: 04/04/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040405	04/04/11	04/05/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/04/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	80.8-120		"	"	"	"	

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.

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**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 1040405 - EPA 5030 Water MS**

**Blank (1040405-BLK1)**

Prepared & Analyzed: 04/04/11

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>14.2</i>		"	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		"	<i>13.3</i>		<i>99.0</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		"	<i>13.3</i>		<i>98.3</i>	<i>80.8-120</i>			

**LCS (1040405-BS1)**

Prepared & Analyzed: 04/04/11

Benzene	20.2	1.0	ug/l	33.3	60.5	60.1-131		10.9		
Toluene	22.5	1.0	"	33.3	67.4	65.9-127		11.3		
Ethylbenzene	24.3	1.0	"	33.3	72.8	65.1-129		20		
m,p-Xylene	50.9	2.0	"	66.7	76.4	66.8-127		20		
o-Xylene	24.8	1.0	"	33.3	74.5	61.2-120		20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		"	<i>13.3</i>	<i>109</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		"	<i>13.3</i>	<i>99.1</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		"	<i>13.3</i>	<i>98.3</i>	<i>80.8-120</i>				

**LCS Dup (1040405-BSD1)**

Prepared & Analyzed: 04/04/11

Benzene	20.1	1.0	ug/l	33.3	60.2	60.1-131	0.547	10.9		
Toluene	22.6	1.0	"	33.3	67.8	65.9-127	0.666	11.3		
Ethylbenzene	24.6	1.0	"	33.3	73.9	65.1-129	1.47	20		
m,p-Xylene	51.4	2.0	"	66.7	77.1	66.8-127	0.958	20		
o-Xylene	25.0	1.0	"	33.3	75.0	61.2-120	0.682	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		"	<i>13.3</i>	<i>108</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		"	<i>13.3</i>	<i>99.5</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		"	<i>13.3</i>	<i>100</i>	<i>80.8-120</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.*

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

**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 1040405 - EPA 5030 Water MS**

Matrix Spike (1040405-MS1)	Source: R104011-01			Prepared & Analyzed: 04/04/11						
Benzene	18.6	1.0	ug/l	33.3	ND	55.9	52.7-130		19.3	
Toluene	21.2	1.0	"	33.3	ND	63.7	57-127		18.7	
Ethylbenzene	23.1	1.0	"	33.3	ND	69.2	59.2-127		20	
m,p-Xylene	48.2	2.0	"	66.7	ND	72.2	53.2-132		20	
o-Xylene	23.4	1.0	"	33.3	ND	70.1	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		112	57.9-139			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	80.8-120			

Matrix Spike Dup (1040405-MSD1)	Source: R104011-01			Prepared & Analyzed: 04/04/11						
Benzene	19.1	1.0	ug/l	33.3	ND	57.4	52.7-130	2.65	19.3	
Toluene	21.7	1.0	"	33.3	ND	65.2	57-127	2.23	18.7	
Ethylbenzene	23.7	1.0	"	33.3	ND	71.0	59.2-127	2.65	20	
m,p-Xylene	49.8	2.0	"	66.7	ND	74.7	53.2-132	3.37	20	
o-Xylene	24.0	1.0	"	33.3	ND	72.0	56.3-117	2.66	20	
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.6	80.8-120			

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.

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
04/05/11 12:44

### 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.*

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 02, 2011

John Cocroft

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: KMG - Frank 18-8 / Zeiler 22-8

Enclosed are the results of analyses for samples received by Summit Scientific on 07/26/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury

President / Laboratory Director

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R107158-01	Water	07/26/11 14:40	07/26/11 17:00
MW02	R107158-02	Water	07/26/11 14:45	07/26/11 17:00
MW03	R107158-03	Water	07/26/11 14:50	07/26/11 17:00
TM04	R107158-04	Water	07/26/11 14:55	07/26/11 17:00
TM05	R107158-05	Water	07/26/11 15:00	07/26/11 17:00

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.*



S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

Page 1 of 1

Summit Scientific A107158

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

Client: LT Environmental, Inc.  
Project: KMG - Frank 18-8 / Zeiler 22-8

Project Manager: John Cocroft  
Project Number: KMG 08420

Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analytes
01-001	M1W01	Water	Field Sample	7/20/11	1440	SB	Voa Vial - HCl	3	8260B BTEX_TXYL
02-001	M1W02	Water	Field Sample		1445		Voa Vial - HCl	3	8260B BTEX_TXYL
03-001	M1W03	Water	Field Sample		1450		Voa Vial - HCl	3	8260B BTEX_TXYL
04-001	T1W04	Water	Field Sample		1455		Voa Vial - HCl	3	8260B BTEX_TXYL
05-001	T1W05	Water	Field Sample		1500		Voa Vial - HCl	3	8260B BTEX_TXYL

Turn Around Time (Check)  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 Susant

Sample Integrity:  
 Temperature Receipt  
 Leak  
 Yes  
 No

Relinquished By \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received By \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished By *AB* 7/20/11 1200 Date/Time  
 Received By *John Cocroft* 7-26-11 7:20 Date/Time

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.

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

**MW01**  
**R107158-01 (Water)**

**Summit Scientific**

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

Date Sampled: 07/26/11 14:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 07/26/11 14:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.3 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.6 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		80.8-120		"	"	"	"	

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.



S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

**MW02**  
**R107158-02 (Water)**

**Summit Scientific**

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

Date Sampled: 07/26/11 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.0 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.9 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	80.8-120		"	"	"	"	

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.

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

MW03  
R107158-03 (Water)

Summit Scientific

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

Date Sampled: 07/26/11 14:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 14:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.4 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	80.8-120		"	"	"	"	

Summit Scientific



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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

**TM04**  
**R107158-04 (Water)**

**Summit Scientific**

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

Date Sampled: 07/26/11 14:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 14:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.4 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80.8-120		"	"	"	"	

Summit Scientific



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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

**TM05**  
**R107158-05 (Water)**

**Summit Scientific**

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

Date Sampled: 07/26/11 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.3 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

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

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

**Batch 1072906 - EPA 5030 Water MS**

**Blank (1072906-BLK1)**

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.3	88.0	57.9-139				
Surrogate: Toluene-d8	12.1		"	13.3	91.1	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3	95.6	80.8-120				

**LCS (1072906-BS1)**

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	29.3	1.0	ug/l	33.3	88.0	60.1-131	3.25	10.9
Toluene	27.9	1.0	"	33.3	83.6	65.9-127	3.18	11.3
Ethylbenzene	30.7	1.0	"	33.3	92.0	65.1-129	5.09	20
m,p-Xylene	62.1	2.0	"	66.7	93.2	66.8-127	3.71	20
o-Xylene	31.6	1.0	"	33.3	94.7	61.2-120	3.46	20
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3	95.7	57.9-139		
Surrogate: Toluene-d8	12.6		"	13.3	94.6	83.1-115		
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3	93.3	80.8-120		

**LCS Dup (1072906-BSD1)**

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	30.3	1.0	ug/l	33.3	90.9	60.1-131	3.25	10.9
Toluene	28.8	1.0	"	33.3	86.3	65.9-127	3.18	11.3
Ethylbenzene	32.3	1.0	"	33.3	96.8	65.1-129	5.09	20
m,p-Xylene	64.5	2.0	"	66.7	96.7	66.8-127	3.71	20
o-Xylene	32.7	1.0	"	33.3	98.0	61.2-120	3.46	20
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3	93.7	57.9-139		
Surrogate: Toluene-d8	12.6		"	13.3	94.2	83.1-115		
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3	93.3	80.8-120		

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

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

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

**Batch 1072906 - EPA 5030 Water MS**

Matrix Spike (1072906-MS1)	Source: R107158-01			Prepared: 07/29/11	Analyzed: 07/30/11					
Benzene	31.3	1.0	ug/l	33.3	ND	93.9	52.7-130			19.3
Toluene	29.8	1.0	"	33.3	ND	89.3	57-127			18.7
Ethylbenzene	33.4	1.0	"	33.3	ND	100	59.2-127			20
m,p-Xylene	67.4	2.0	"	66.7	ND	101	53.2-132			20
o-Xylene	33.7	1.0	"	33.3	ND	101	56.3-117			20
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.3	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.0	80.8-120			

Matrix Spike Dup (1072906-MSD1)	Source: R107158-01			Prepared: 07/29/11	Analyzed: 07/30/11					
Benzene	30.4	1.0	ug/l	33.3	ND	91.1	52.7-130	3.02		19.3
Toluene	29.1	1.0	"	33.3	ND	87.3	57-127	2.31		18.7
Ethylbenzene	33.8	1.0	"	33.3	ND	101	59.2-127	1.19		20
m,p-Xylene	67.6	2.0	"	66.7	ND	101	53.2-132	0.370		20
o-Xylene	33.6	1.0	"	33.3	ND	101	56.3-117	0.386		20
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		95.7	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	80.8-120			

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
08/02/11 10:49

### 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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Summit Scientific

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# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 17, 2011

John Cocroft

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: KMG - Frank 18-8 / Zeiler 22-8

Enclosed are the results of analyses for samples received by Summit Scientific on 10/11/11 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R110074-01	Water	10/11/11 11:30	10/11/11 17:30
MW02	R110074-02	Water	10/11/11 11:25	10/11/11 17:30
MW03	R110074-03	Water	10/11/11 11:20	10/11/11 17:30
TM04	R110074-04	Water	10/11/11 11:15	10/11/11 17:30
TM05	R110074-05	Water	10/11/11 11:10	10/11/11 17:30

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

741Compass Circle - Suite 1  
Golden, Colorado 80401  
303-271-9310 - 303-374-5933 Fax

Summit Scientific

R110074 Page 1 of 1

Client: LT Environmental, Inc.  
Project: KMG - Frank 18-8 / Zeiler 22-8  
Project Manager: John Cocroft  
Project Number: KMG 08420

Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	Field Sample	10/11/11	11:30	AV	Voa Vial - HCl	3	8240B BTEX, TSYL
02-001	MW02	Water	Field Sample		11:25		Voa Vial - HCl	3	8240B BTEX, TSYL
03-001	MW03	Water	Field Sample		11:26		Voa Vial - HCl	3	8240B BTEX, TSYL
04-001	TR04	Water	Field Sample		11:15		Voa Vial - HCl	3	8240B BTEX, TSYL
05-001	TR05	Water	Field Sample		11:10		Voa Vial - HCl	3	8240B BTEX, TSYL

Turn Around Time (Check)

Same Day   
 24 Hours   
 48 Hours   
 72 Hours   
 Standard

Sample Integrity:  
 Temperature Upon Receipt 58  
 Insect Yes No

Retiquished By: [Signature] Date/Time  
 Received By: [Signature] Date/Time 10-11-11 17:30

Retiquished By: [Signature] Date/Time 10/11/11 17:30  
 Received By: [Signature] Date/Time

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

MW01  
R110074-01 (Water)

Summit Scientific

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

Date Sampled: 10/11/11 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1101501	10/15/11	10/16/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 10/11/11 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %		80.8-120		"	"	"	"	

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

MW02  
R110074-02 (Water)

Summit Scientific

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

Date Sampled: 10/11/11 11:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101501	10/15/11	10/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/11/11 11:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

MW03  
R110074-03 (Water)

Summit Scientific

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

Date Sampled: 10/11/11 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2.2</b>	1.0	ug/l	1	1101501	10/15/11	10/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/11/11 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.7 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.1 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.9 %	80.8-120		"	"	"	"	

Summit Scientific



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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

**TM04**  
**R110074-04 (Water)**

**Summit Scientific**

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

Date Sampled: 10/11/11 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101501	10/15/11	10/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/11/11 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.0 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.8 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

**TM05**  
**R110074-05 (Water)**

**Summit Scientific**

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

Date Sampled: 10/11/11 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101501	10/15/11	10/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/11/11 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.2 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

**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 1101501 - EPA 5030 Water MS**

**Blank (1101501-BLK1)**

Prepared & Analyzed: 10/15/11

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>11.3</i>		<i>"</i>	<i>13.3</i>		<i>84.5</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.9</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.2</i>	<i>80.8-120</i>			

**LCS (1101501-BS1)**

Prepared & Analyzed: 10/15/11

Benzene	24.9	1.0	ug/l	33.3		74.7	60.1-131	8.06	10.9	
Toluene	30.8	1.0	"	33.3		92.5	65.9-127	0.485	11.3	
Ethylbenzene	32.4	1.0	"	33.3		97.1	65.1-129	2.59	20	
m,p-Xylene	66.7	2.0	"	66.7		100	66.8-127	2.00	20	
o-Xylene	32.3	1.0	"	33.3		96.8	61.2-120	2.18	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.2</i>		<i>"</i>	<i>13.3</i>		<i>84.0</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.1</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.6</i>	<i>80.8-120</i>			

**LCS Dup (1101501-BSD1)**

Prepared & Analyzed: 10/15/11

Benzene	27.0	1.0	ug/l	33.3		80.9	60.1-131	8.06	10.9	
Toluene	31.0	1.0	"	33.3		93.0	65.9-127	0.485	11.3	
Ethylbenzene	33.2	1.0	"	33.3		99.7	65.1-129	2.59	20	
m,p-Xylene	68.0	2.0	"	66.7		102	66.8-127	2.00	20	
o-Xylene	33.0	1.0	"	33.3		98.9	61.2-120	2.18	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.7</i>		<i>"</i>	<i>13.3</i>		<i>87.9</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>96.7</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>96.6</i>	<i>80.8-120</i>			

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S<sub>2</sub>

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

Project: KMG - Frank 18-8 / Zeiler 22-8

Project Number: KMG 08420  
Project Manager: John Cocroft

Reported:  
10/17/11 17:38

### 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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