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**Groundwater Monitoring Report  
First Quarter 2017  
Fort Collins Tank Battery**

January 25, 2017

**Prepared By:**  
Talon/LPE  
1811 East Mulberry Street  
Fort Collins, CO 80524

**Prepared For:**  
Prospect Energy

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## 1 Introduction

Talon/LPE (Talon) was contracted by Prospect Energy (Prospect) to conduct groundwater monitoring. The Site, known as Fort Collins Tank Battery facility (Site) is located in the northwest quarter of the northwest quarter, Section 30 of Township 8 North and Range 68 West in Larimer County, Colorado.

## 2 Objective

The primary objective of this document is to report on Site activities which occurred during the First Quarter of 2017, including quarterly groundwater monitoring.

## 3 Regulatory Framework

The COGCC has regulatory jurisdiction over oil and natural gas industry operations in the State of Colorado. Section 900 of the COGCC Rules is for Exploration and Production Waste Management. More specifically, Section 910 details the Concentrations and Sampling for Soil and Groundwater rules. The regulatory limits for specific analytes in soil and groundwater are detailed in Table 910-1 and are summarized below.

Compound	COGCC Table 910-1 Groundwater Concentrations
Benzene	0.005 mg/L
Toluene	1.0 mg/L
Ethylbenzene	0.7 mg/L
Xylenes (total)	10 mg/L

## 4 Site Characteristics

### 4.1 Geography

The Site is located in the Larimer County, which is the north-central part of Colorado. The Site topography is relatively flat.

### 4.2 Geologic Summary

Surficial geology surrounding the area consists of Tertiary age fluvial deposits of the lower Ogallala Formation. More specifically, these deposits are Miocene in age and are composed of gray to brown and semi-consolidated, ashy sands and silt beds with volcanic ash beds. Deposited material hardened into sandstone and siltstone which are grouped into three formations: White River, Arikaree, and Ogallala.

### 4.3 Groundwater

Based on groundwater elevations measured during this monitoring event, groundwater flow has been measured to flow to the south-southeast at 0.010 feet/foot. Depth to water was observed between 19.72 ft bgs in MW-7 to 25.57 ft bgs in MW-6. Calculated groundwater elevations are

detailed in Table 3 and groundwater elevation contours are presented on Figure 3.

## 5 Field Activities

### 5.1 Monitoring Well Development and Groundwater Sampling

On January 9, 2017, Talon personnel arrived on site and removed the Advanced Oxygen Release Compound (ORC-A) sock from monitoring well MW-3A to allow the groundwater within the well to equilibrate with the surrounding formation.

On January 17, 2017, Talon performed groundwater monitoring and sampling. Prior to sampling, depth to water was measured in each well (Table 3). Monitoring well MW-4 was inaccessible due to ice over the well cover and was not gauged or sampled during this event.

No phase-separated hydrocarbons (PSH) were observed during this monitoring event. Each well was purged of three well casing volumes, or until the well became dry. Purge water was containerized onsite in 55-gallon drums pending removal via vacuum truck.

Following the purging of the wells, Talon collected groundwater samples from the monitoring wells. The collected samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) via method SW8260 at Summit Scientific Laboratory in Golden, Colorado (Summit). A copy of the laboratory report and chain of custody documentation is included in Attachment 3.

All laboratory analytical results for were below laboratory detection limits except benzene in monitoring well MW-3A (0.0042 mg/L) which is below COGCC Table 910-1 concentration levels.

Following all sampling activities, the ORC-A sock was reinstalled into monitoring well MW-3A.

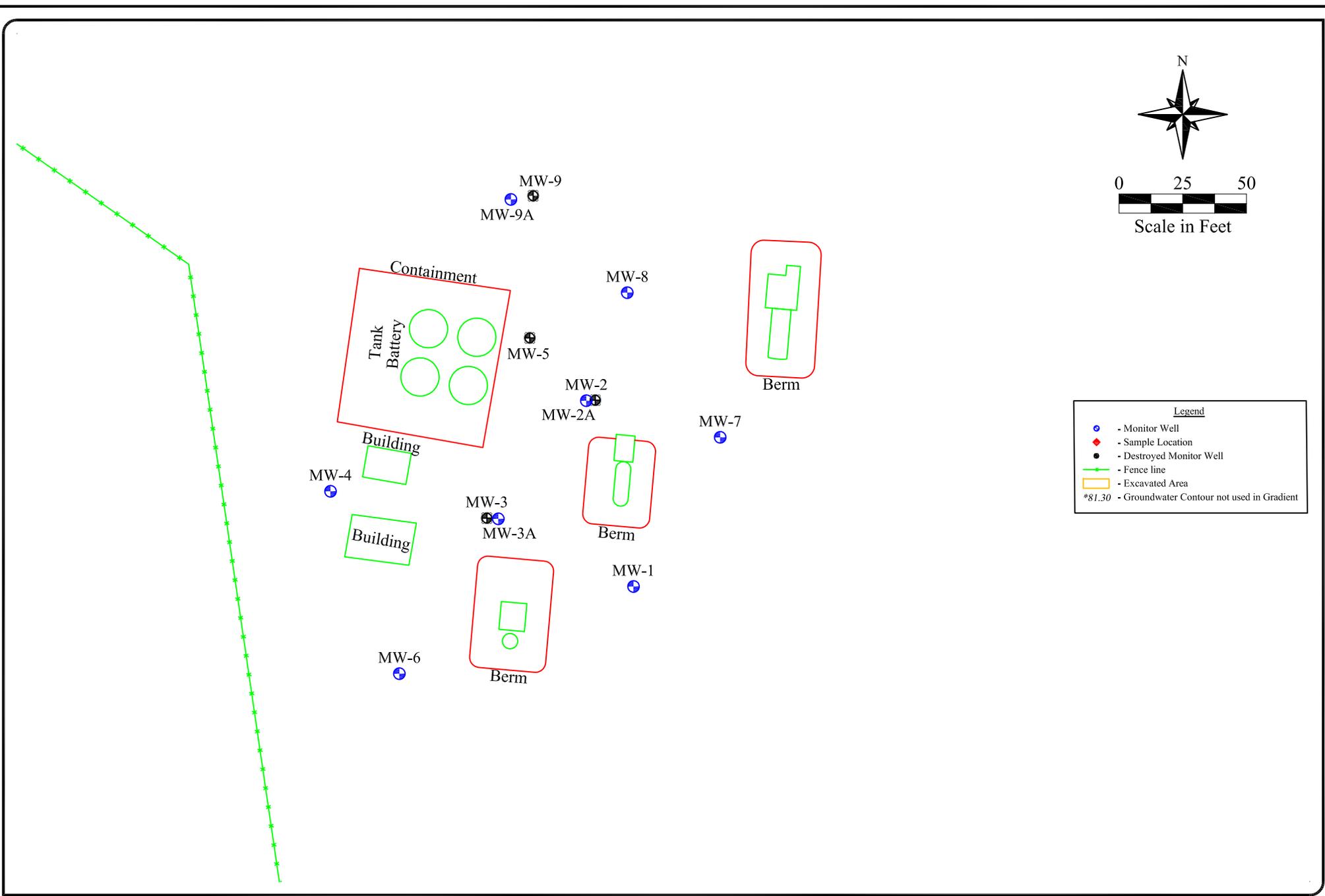
## 6 Summary and Recommendations

During First Quarter 2017, Talon monitored the groundwater on site, and collected groundwater samples from the Site. Groundwater flow was calculated to be to the south-southeast at 0.010 ft/foot.

Monitoring well MW-3A exhibited a benzene concentration of 0.0042 mg/L, which is below COGCC Table 910-1 concentration level. All remaining analytical results were below laboratory detection levels. Following sampling activities, the ORC-A sock was reinstalled into monitoring well MW-3A.

Talon will continue quarterly monitoring at the Site. The next sampling event is anticipated to occur in April 2017.

**Attachment 1**  
**Figures**

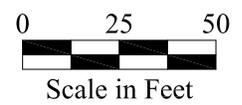


Date: 01/24/2017

Scale: 1" = 50'

Drawn By: TJS

FTC Battery  
Prospect Energy  
Larimer County, Colorado  
Figure 1 - Site Plan

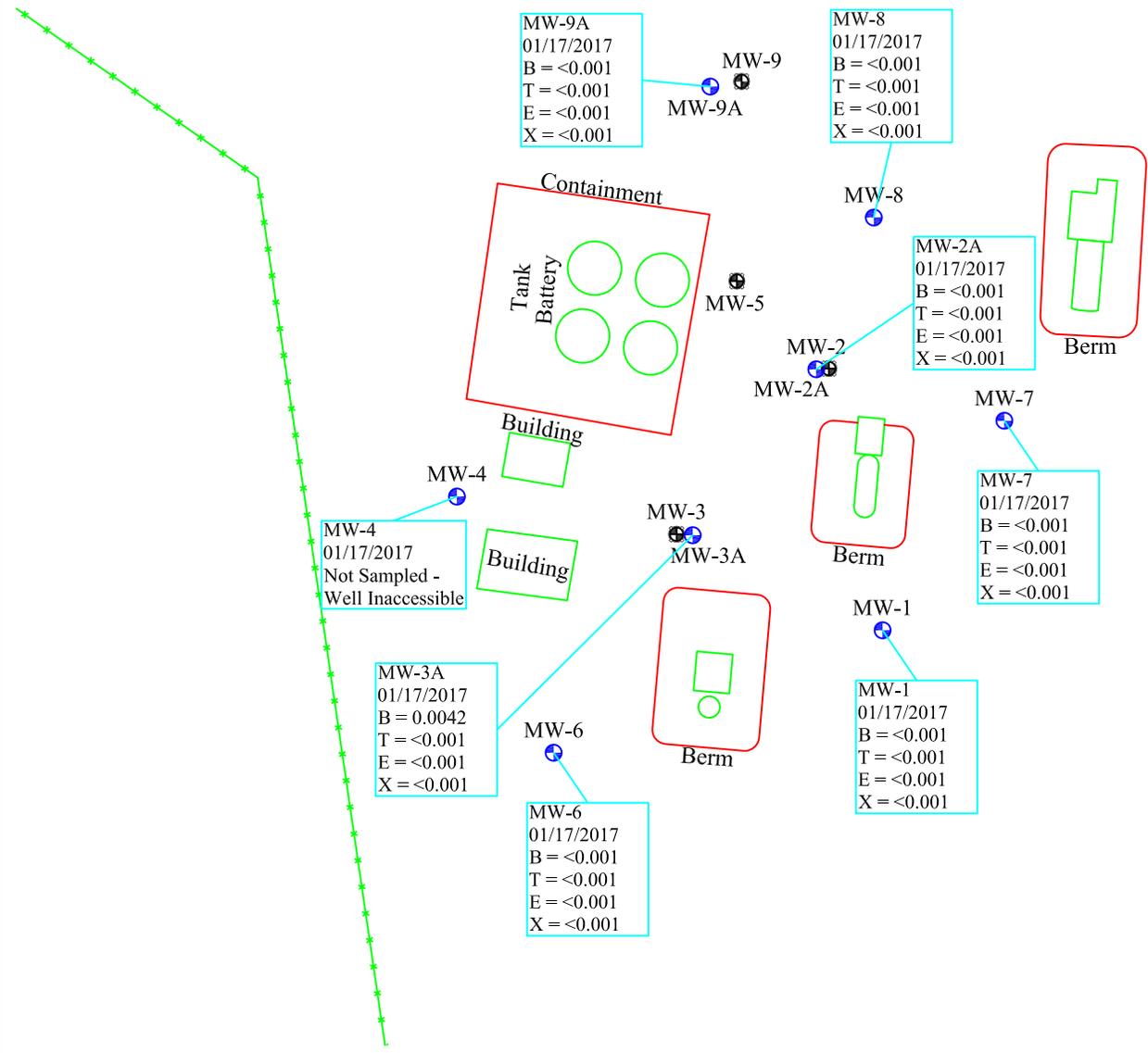


**Legend**

- Monitor Well (blue circle with cross)
- Sample Location (red diamond)
- Destroyed Monitor Well (black circle with cross)
- Fence line (green line with 'x' markers)
- Excavated Area (yellow rectangle)

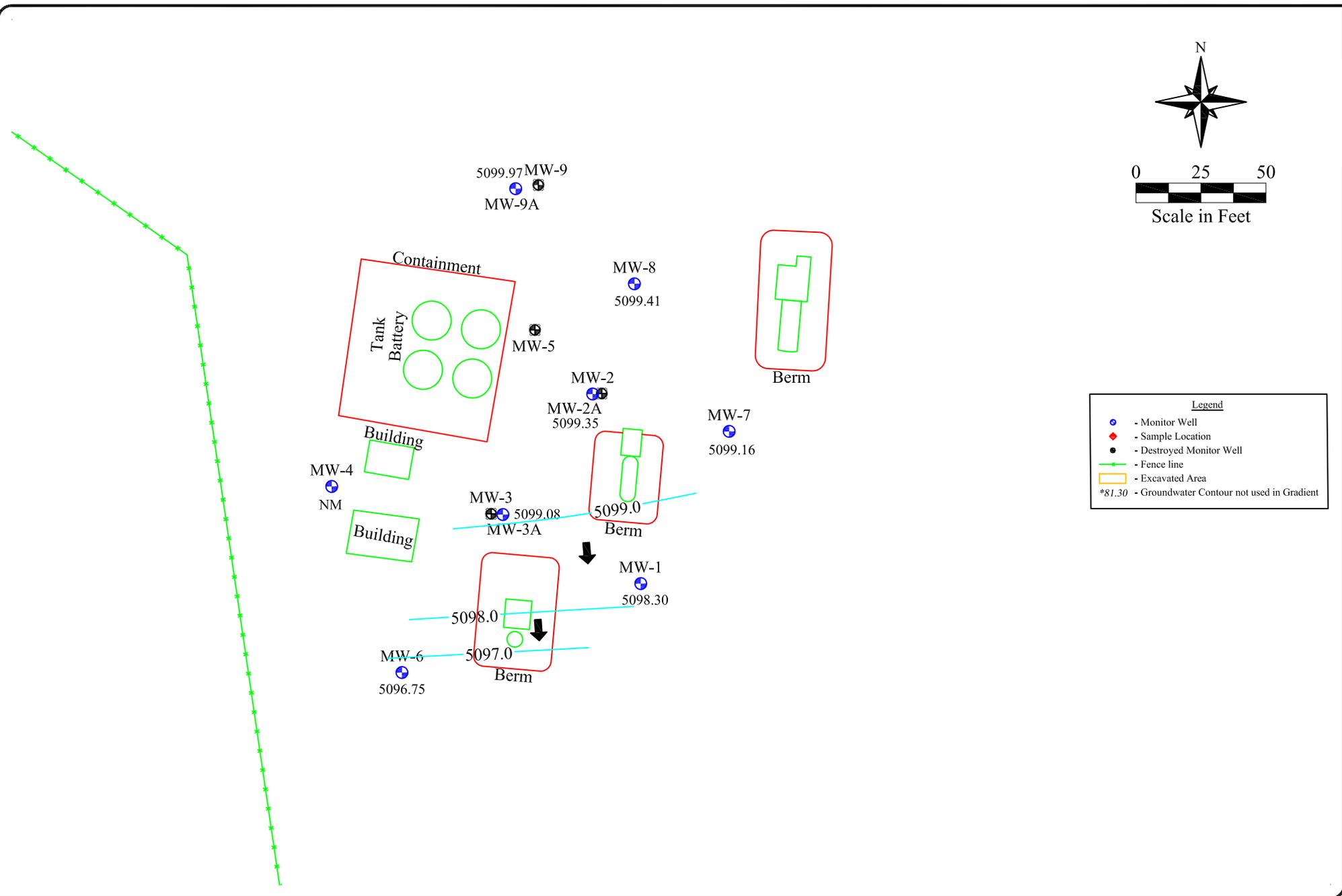
COGCC Levels (mg/L)

- B = 0.005
- T = 1
- E = 0.7
- X = 10



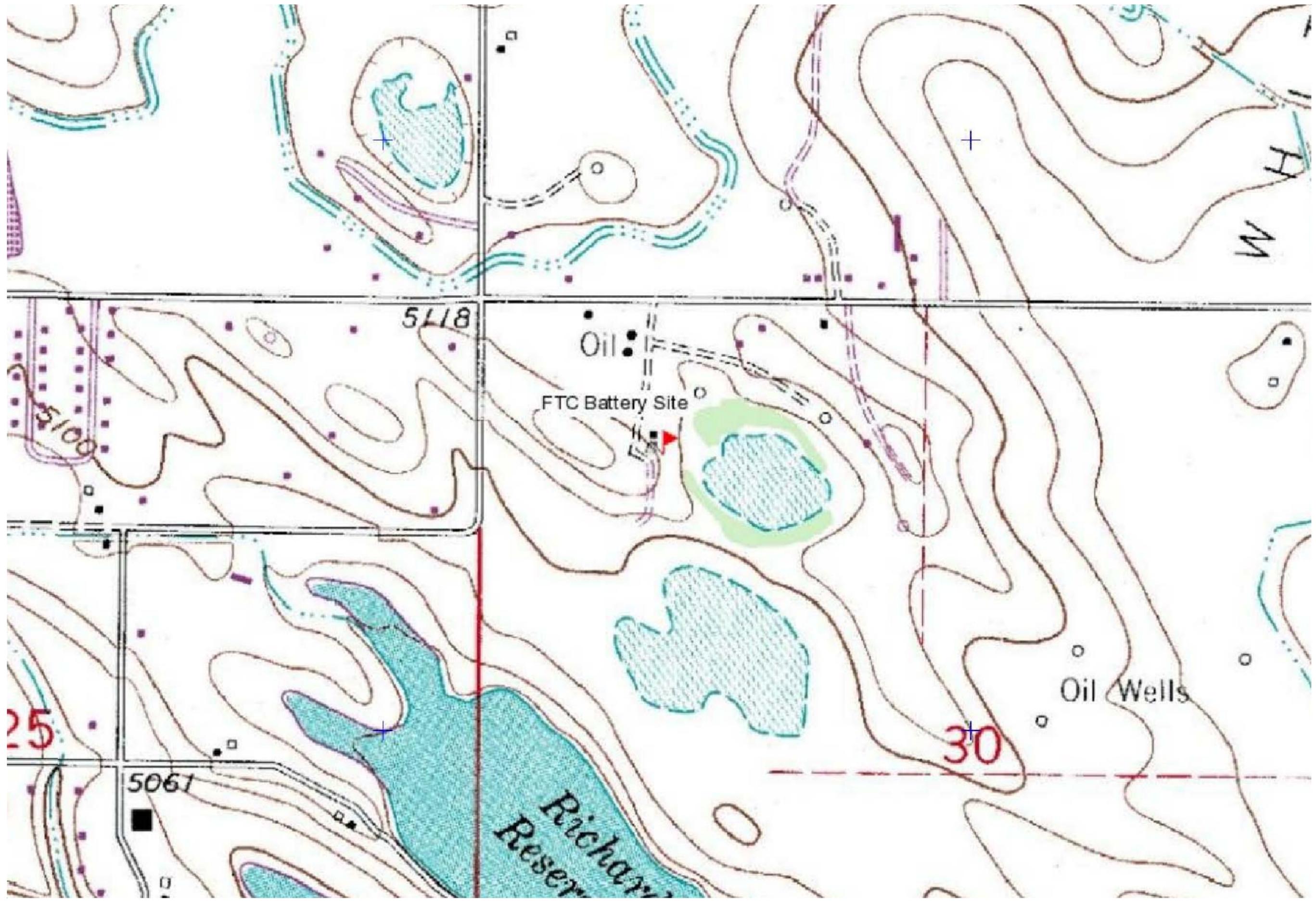
Date: 01/24/2017  
Scale: 1" = 50'  
Drawn By: TJS

FTC Battery  
Prospect Energy  
Larimer County, Colorado  
Figure 2 - Groundwater Concentration Map (01/17/2017)



Date: 01/24/2017  
 Scale: 1" = 50'  
 Drawn By: TJS

FTC Battery  
 Prospect Energy  
 Larimer County, Colorado  
 Figure 3 - Groundwater Elevation Contour Map (01/17/2017)



FTC Battery  
Prospect Energy  
Larimer County, Colorado  
Figure 4 - Topographic Map

Date: 01/24/2017  
Scale: 1" = 500'  
Drawn By: TJS



**Attachment 2  
Tables**



**Table 1 - Well Information**

**Prospect Energy  
Fort Collins Tank Battery  
Fort Collins, Colorado**

<b>Well ID</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Ground Surface Elevation (ft amsl)</b>	<b>TOC Elevation (ft amsl)</b>	<b>Screen Interval (ft bgs)</b>
MW-1	40.63705045	-105.0534241	5120.067	5119.772	19.5-34.5
MW-2	40.63724527	-105.0534773	5122.973	5122.606	19.5-34.5
MW-2A	40.63724403	-105.0534801	5122.403	5121.988	19-34
MW-3	40.63712825	-105.0536249	5123.213	5122.846	14.5-29.5
MW-3A	40.63712398	-105.0536166	5123.004	5122.375	19-34
MW-4	40.63714891	-105.0538370	5123.485	5123.166	14.5-29.5
MW-5	40.63731007	-105.0535692	5123.095	5122.812	14.5-29.5
MW-6	40.63696229	-105.0537450	5122.668	5122.315	14.5-29.5
MW-7	40.63720573	-105.0533057	5119.228	5118.879	14.5-29.5
MW-8	40.63735590	-105.0534332	5121.080	5120.612	14.5-29.5
MW-9	40.63745316	-105.0535617	5121.236	5120.816	14.5-29.5
MW-9A	40.63745297	-105.0535865	5121.568	5120.691	15-30

TOC - Top of Casing

DTW - Depth to Water

ft bgs - Feet Below Ground Surface

ft amsl - Feet Above Mean Sea Level



**Table 2 - Groundwater Analytical Data**

**Prospect Energy  
Fort Collins Tank Battery  
Fort Collins, Colorado**

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>COGCC Table 910-1 Concentration Levels</b>			<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>
MW-1	1508286-1	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-02	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-01	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-01	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-01	1/17/2017	<0.001	<0.001	<0.001	<0.001
MW-2	NA	8/18/2015	Not Analyzed Due to PSH			
	NA	12/4/2015	Not Analyzed Due to PSH			
	NA	2/25/2016	Not Analyzed Due to PSH			
	Destroyed					
MW-2A	1610145-02	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-02	1/17/2017	<0.001	<0.001	<0.001	<0.001
MW-3	NA	8/18/2015	Not Analyzed Due to PSH			
	NA	12/4/2015	Not Analyzed Due to PSH			
	NA	2/25/2016	Not Analyzed Due to PSH			
	Destroyed					
MW-3A	1610145-03	10/18/2016	0.038	0.0086	0.038	0.16
	1701103-03	1/17/2017	0.0042	<0.001	<0.001	<0.001
MW-4	1508286-2	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-04	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-06	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-04	10/18/2016	<0.001	<0.001	<0.001	<0.001
	NS	1/17/2017	Not Sampled - Well Inaccessible			
MW-5	1508286-3	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-07	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-07	2/25/2016	<0.001	<0.001	<0.001	<0.001
	Destroyed					
MW-6	1508286-4	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-06	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-05	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-05	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-04	1/17/2017	<0.001	<0.001	<0.001	<0.001
MW-7	1508286-5	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-01	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-03	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-06	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-05	1/17/2017	<0.001	<0.001	<0.001	<0.001
MW-8	1508286-6	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-03	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-02	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-07	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-06	1/17/2017	<0.001	<0.001	<0.001	<0.001
MW-9	1508286-7	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-05	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-01	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1611015-01	11/2/2016	0.31	0.86	0.22	1.1
	Abandoned 11/2/2016					



**Table 2 - Groundwater Analytical Data**

**Prospect Energy  
Fort Collins Tank Battery  
Fort Collins, Colorado**

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>COGCC Table 910-1 Concentration Levels</b>			<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>
MW-9A	1612018-01	12/2/2016	<0.001	0.0011	<0.001	<0.001
	1701103-07	1/17/2017	<0.001	<0.001	<0.001	<0.001

mg/L - milligrams per liter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

NA - Not applicable



**Table 3 - Groundwater Gauging Data**

**Prospect Energy  
Fort Collins Tank Battery  
Fort Collins, Colorado**

Well ID	Date	Depth to Product (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Corrected Groundwater Elevation (ft amsl)	Total Depth (ft)
MW-1	8/18/2015	NA	20.41	5099.36		33.21
	12/4/2015	NA	20.42	5099.35		32.8
	2/25/2016	NA	21.09	5098.68		33.55
	10/17/2016	NA	21.99	5097.78		33.43
	1/17/2017	NA	21.47	5098.30		33.5
MW-2	8/18/2015	22.58	22.98	5099.63	5099.95	NM
	12/4/2015	22.42	23.68	5098.93	5099.93	NM
	2/25/2016	23.25	23.40	5099.21	5099.33	NM
Destroyed						
MW-2A	10/17/2016	NA	24.61	5097.38		34.42
	1/17/2017	NA	22.64	5099.35		33.40
MW-3	8/18/2015	22.89	25.00	5097.85	5099.53	NM
	12/4/2015	23.00	25.20	5097.65	5099.41	NM
	2/25/2016	22.75	24.94	5097.91	5099.66	NM
Destroyed						
MW-3A	10/17/2016	NA	24.17	5098.21		32.10
	1/17/2017	NA	23.30	5099.08		32.11
MW-4	8/18/2015	NA	23.58	5099.59		29.34
	12/4/2015	NA	23.78	5099.39		29.3
	2/25/2016	NA	23.60	5099.57		29.31
	10/17/2016	NA	25.20	5097.97		29.26
	1/17/2017	NA	NM	NM		NM
MW-5	8/18/2015	NA	22.53	5100.28		29.3
	12/4/2015	NA	22.59	5100.22		29.26
	2/25/2016	NA	22.30	5100.51		28.98
Destroyed						
MW-6	8/18/2015	NA	24.50	5097.82		29.34
	12/4/2015	NA	24.68	5097.64		29.32
	2/25/2016	NA	24.44	5097.88		29.13
	10/17/2016	NA	26.18	5096.14		29.04
	1/17/2017	NA	25.57	5096.75		29.24
MW-7	8/18/2015	NA	19.00	5099.88		28.00
	12/4/2015	NA	18.90	5099.98		27.46
	2/25/2016	NA	18.56	5100.32		27.38
	10/17/2016	NA	20.62	5098.26		26.89
	1/17/2017	NA	19.72	5099.16		26.90
MW-8	8/18/2015	NA	20.35	5100.26		28.83
	12/4/2015	NA	20.43	5100.18		28.55
	2/25/2016	NA	19.99	5100.62		28.75
	10/17/2016	NA	22.04	5098.57		28.69
	1/17/2017	NA	21.20	5099.41		28.63
MW-9	8/18/2015	NA	20.18	5100.64		29.20
	12/4/2015	NA	20.22	5100.60		28.48
	2/25/2016	NA	19.95	5100.87		29.68
Abandoned						



**Table 3 - Groundwater Gauging Data**

**Prospect Energy  
Fort Collins Tank Battery  
Fort Collins, Colorado**

<b>Well ID</b>	<b>Date</b>	<b>Depth to Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft amsl)</b>	<b>Corrected Groundwater Elevation (ft amsl)</b>	<b>Total Depth (ft)</b>
MW-9A	12/2/2016	NA	21.05	5099.64		28.84
	1/17/2017	NA	20.72	5099.97		28.65

NA - Not Applicable

NM - Not Measured

ft - feet

Corrected groundwater elevation levels are based on a correction factor of 0.8

**Attachment 3**  
**Analytical Report**

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 23, 2017

Colby Sterling

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Prospect Energy - FTC Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 01/17/17 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.05  
Project Manager: Colby Sterling

**Reported:**  
01/23/17 09:52

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	1701103-01	Water	01/17/17 12:20	01/17/17 14:15
MW02 A	1701103-02	Water	01/17/17 12:05	01/17/17 14:15
MW03 A	1701103-03	Water	01/17/17 12:10	01/17/17 14:15
MW06	1701103-04	Water	01/17/17 12:25	01/17/17 14:15
MW07	1701103-05	Water	01/17/17 12:15	01/17/17 14:15
MW08	1701103-06	Water	01/17/17 12:00	01/17/17 14:15
MW09 A	1701103-07	Water	01/17/17 12:30	01/17/17 14:15

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.*



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.05  
Project Manager: Colby Sterling

Reported:  
01/23/17 09:52

# Summit Scientific

1701103

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

Client: Prospect Energy/Talon LPE <sup>Bill</sup> Project Manager: Colby Sterling Page 1 of 1  
Address: \_\_\_\_\_ E-Mail: csterling@TalonLPE.com  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Project Name: Prospect Fire Tanks  
Sampler Name: J. Leverton Project Number: 702108.001.05

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)					
1	MW01	1-17-17	12:20	1	X				X								
2	MW02A		12:05														
3	MW03A		12:10														
4	MW06		12:25														
5	MW07		12:15														
6	MW08		12:00														
7	MW09A		12:30														
8																	
9																	
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1-17-17 14:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1-17-17 14:15</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>1-17-17 17:40</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1-17-17 17:40</u>	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>12.7</u>	
				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.s2scientific.com



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.05  
Project Manager: Colby Sterling

Reported:  
01/23/17 09:52

**Sample Receipt Checklist**

S2 Work Order: 1701103

Client: Talon Client Project ID: Prospect FTC Tanks

Shipped Via: H.D. on ice Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Cooler ID				
Temp (°C)	<u>12.7</u>			

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? <b>if yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>HCl preserved.</u>
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Muri P.  
Custodian Printed Name

LA 1-17-17  
Signature or Initials of Custodian

14:50  
Date/Time



Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.05  
 Project Manager: Colby Sterling

**Reported:**  
 01/23/17 09:52

**MW01**  
**1701103-01 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.05  
 Project Manager: Colby Sterling

**Reported:**  
 01/23/17 09:52

**MW02 A**  
**1701103-02 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.6 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.3 %	45-146		"	"	"	"	

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 Ft Collins CO, 80524

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 Project Manager: Colby Sterling

**Reported:**  
 01/23/17 09:52

**MW03 A**  
**1701103-03 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>4.2</b>	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.5 %	45-146		"	"	"	"	

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Ft Collins CO, 80524

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**Reported:**  
01/23/17 09:52

**MW06**  
**1701103-04 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	45-146		"	"	"	"	

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Ft Collins CO, 80524

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**Reported:**  
01/23/17 09:52

**MW07**  
**1701103-05 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	45-146		"	"	"	"	

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Ft Collins CO, 80524

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**Reported:**  
01/23/17 09:52

**MW08**  
**1701103-06 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	45-146		"	"	"	"	

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 Ft Collins CO, 80524

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 Project Manager: Colby Sterling

**Reported:**  
 01/23/17 09:52

**MW09 A**  
**1701103-07 (Water)**

**Summit Scientific**

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

Date Sampled: **01/17/17 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1701156	01/19/17	01/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/17/17 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	45-146		"	"	"	"	

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Reported:  
01/23/17 09:52

**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 1701156 - EPA 5030 Water MS**

**Blank (1701156-BLK1)**

Prepared & Analyzed: 01/19/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3		103	37-154			
Surrogate: Toluene-d8	12.5		"	13.3		94.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	45-146			

**LCS (1701156-BS1)**

Prepared & Analyzed: 01/19/17

Benzene	39.4	1.0	ug/l	33.3		118	51-132			
Toluene	38.4	1.0	"	33.3		115	51-138			
Ethylbenzene	42.1	1.0	"	33.1		127	58-146			
m,p-Xylene	79.8	2.0	"	66.5		120	57-144			
o-Xylene	41.2	1.0	"	32.7		126	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	37-154			
Surrogate: Toluene-d8	12.7		"	13.3		95.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	45-146			

**Matrix Spike (1701156-MS1)**

Source: 1701098-01

Prepared & Analyzed: 01/19/17

Benzene	40.1	1.0	ug/l	33.3	ND	120	34-141			
Toluene	39.6	1.0	"	33.3	ND	119	27-151			
Ethylbenzene	43.8	1.0	"	33.1	ND	132	29-160			
m,p-Xylene	82.5	2.0	"	66.5	ND	124	20-166			
o-Xylene	42.1	1.0	"	32.7	ND	129	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	37-154			
Surrogate: Toluene-d8	12.8		"	13.3		96.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	45-146			

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01/23/17 09:52

**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 1701156 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1701156-MSD1)</b>	<b>Source: 1701098-01</b>			<b>Prepared &amp; Analyzed: 01/19/17</b>						
Benzene	39.0	1.0	ug/l	33.3	ND	117	34-141	2.83	32	
Toluene	38.8	1.0	"	33.3	ND	116	27-151	2.17	25	
Ethylbenzene	43.5	1.0	"	33.1	ND	132	29-160	0.619	50	
m,p-Xylene	82.2	2.0	"	66.5	ND	124	20-166	0.425	36	
o-Xylene	42.2	1.0	"	32.7	ND	129	33-159	0.309	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.6</i>		<i>"</i>	<i>13.3</i>		<i>110</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.3</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>45-146</i>			

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Ft Collins CO, 80524

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**Reported:**  
01/23/17 09:52

### 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