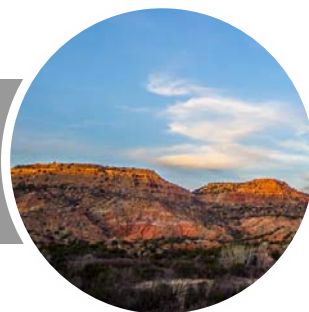


talonlpe.com • 866.742.0742



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

August 14, 2017

**Prepared By:**

Talon/LPE  
1811 East Mulberry Street  
Fort Collins, CO 80524

**Prepared For:**

Prospect Energy

## Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
<b>2</b>	<b>Objective .....</b>	<b>1</b>
<b>3</b>	<b>Regulatory Framework.....</b>	<b>1</b>
<b>4</b>	<b>Site Characteristics .....</b>	<b>1</b>
<b>5</b>	<b>Field Activities .....</b>	<b>2</b>
<b>6</b>	<b>Summary and Recommendations .....</b>	<b>2</b>

Attachment 1 - Figures

Attachment 2 - Tables

Attachment 3 - Laboratory Report

## 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 Third 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-southwest at 0.015 feet/foot between monitoring wells MW-9A and MW-6. Depth to water was observed between 20.30 ft bgs in MW-7 to 25.68 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 Groundwater Sampling***

On June 30, 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 April 7, 2017, Talon performed groundwater monitoring and sampling. Prior to sampling, depth to water and total depth were measured in each well (Table 3).

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 from MW-3A was containerized onsite in 55-gallon drums pending removal via vacuum truck. Purge water from the remaining wells was water was disposed of onsite by spreading it on the surface.

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 or COGCC Table 910-1 concentration levels. The analytical result for benzene in monitoring well MW-3A is 0.0038 mg/L during this monitoring event. This result is a decrease from Second Quarter 2017 of 0.0079 mg/L. Talon will continue to monitor the effectiveness of the ORC-A sock on benzene analytical results in this well.

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

## **6 Summary and Recommendations**

During Third Quarter 2017, Talon monitored the groundwater on site, and collected groundwater samples from the Site. Groundwater flow was calculated to be to the south-southwest at 0.015 ft/foot.

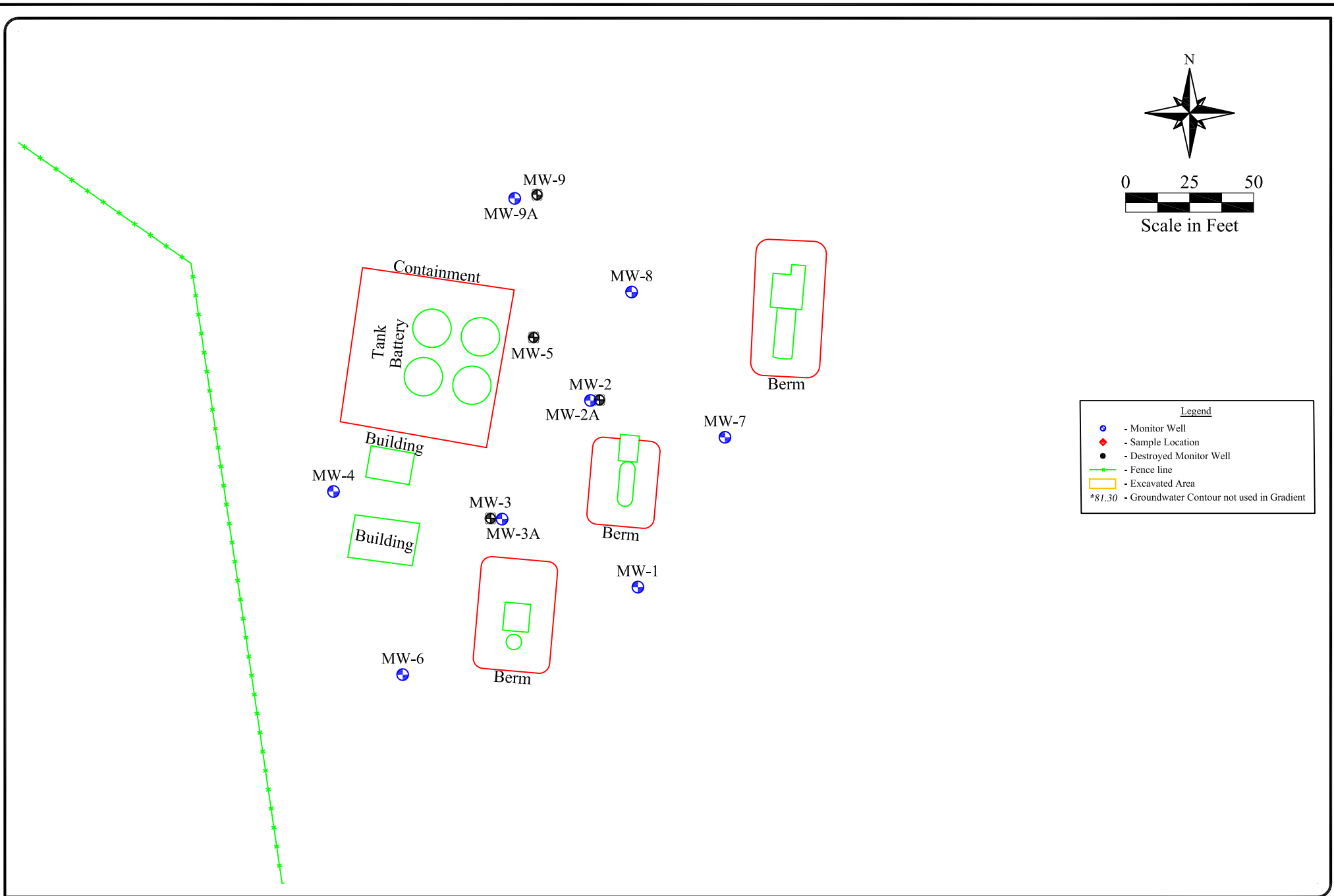
All remaining analytical results were below laboratory detection levels or COGCC Table 910-1 concentration levels. Following sampling activities, the ORC-A sock was reinstalled into monitoring well MW-3A.

The analytical results indicate several wells have been below COGCC Table 910-1 regulatory levels for a minimum of four (4) quarters of groundwater monitoring. Talon respectfully requests to remove monitoring wells MW-7, MW-8, and MW-9A from the sampling plan and to properly plug and abandon these wells. The remaining wells on the site are sufficient for site

groundwater monitoring as well as calculating hydraulic gradient for this site.

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

**Attachment 1**  
**Figures**



Date: 04/26/2017  
 Scale: 1" = 50'  
 Drawn By: TJS

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



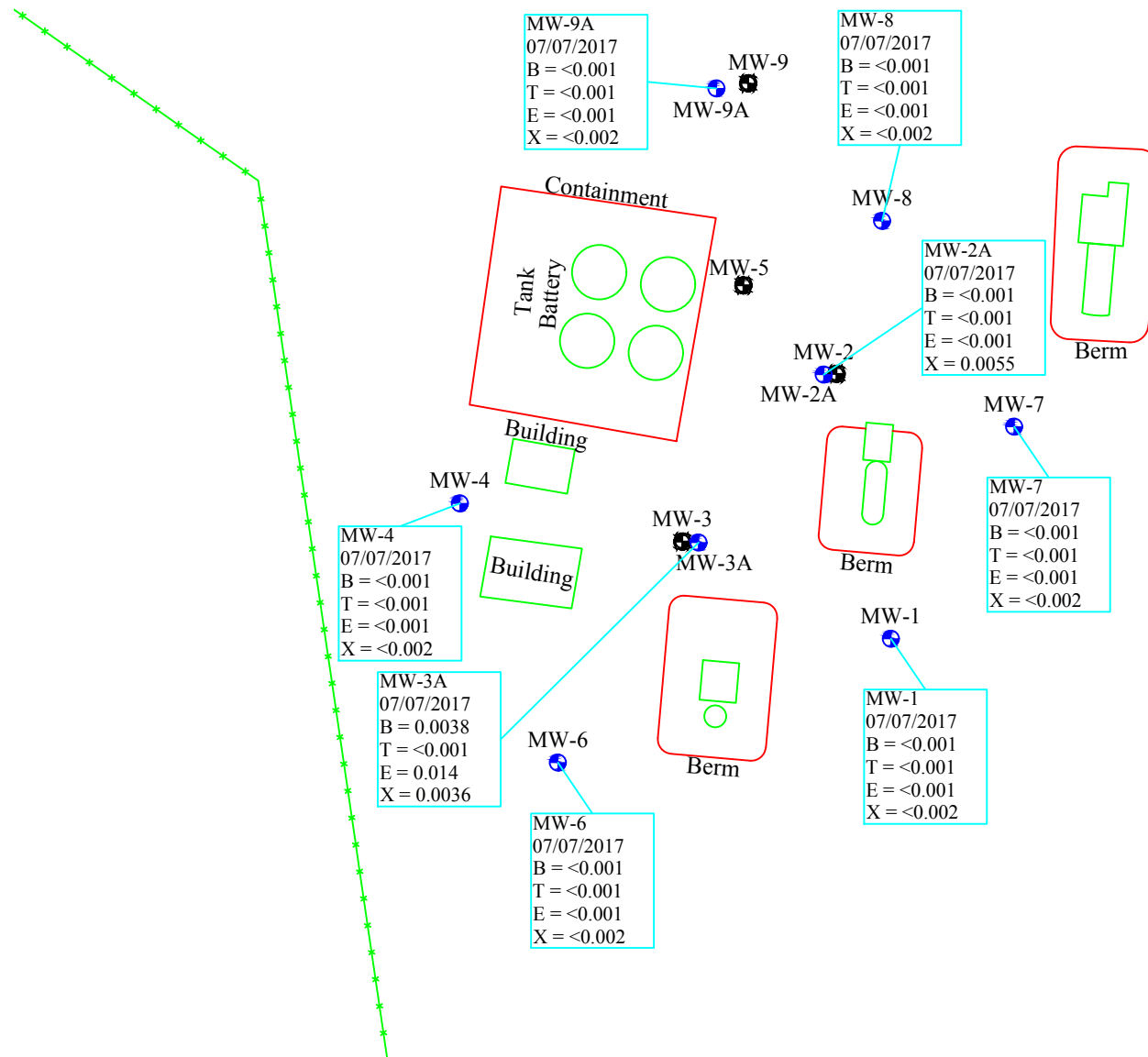
0 25 50  
Scale in Feet

**Legend**

- Monitor Well
- Sample Location
- Destroyed Monitor Well
- Fence line
- Excavated Area

COGCC Levels (mg/L)

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



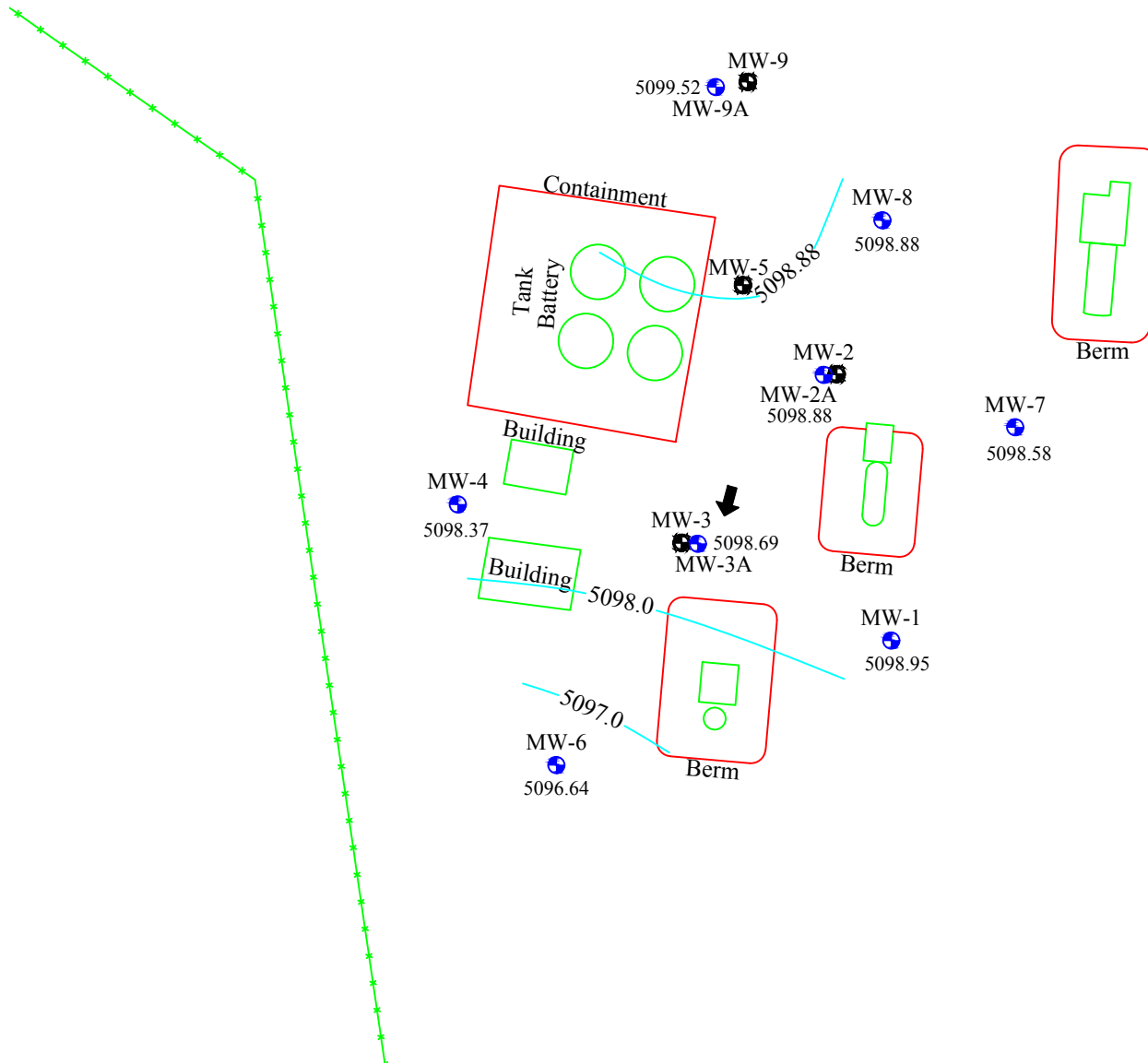
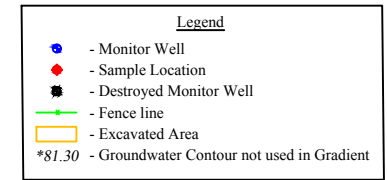
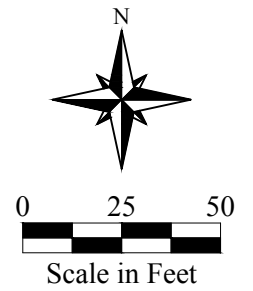
Date: 08/12/2017

Scale: 1" = 50'

Drawn By: IJM

FTC Battery  
Prospect Energy  
Larimer County, Colorado  
Figure 2 - Groundwater Concentration Map (07/07/2017)





Date: 08/12/2017

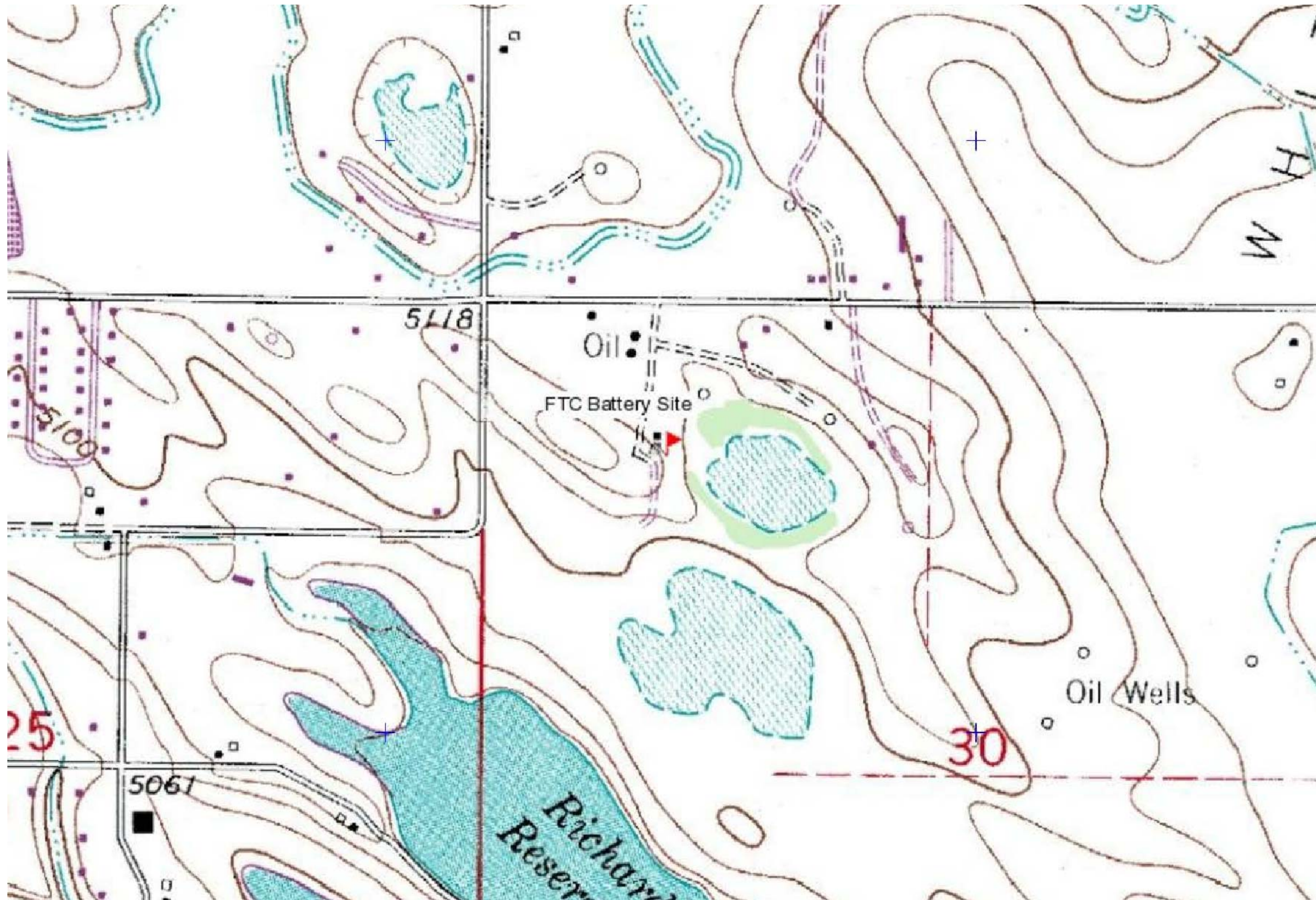
Scale: 1" = 50'

Drawn By: IJM

FTC Battery  
Prospect Energy  
Larimer County, Colorado

Figure 3 - Groundwater Elevation Contour Map (07/07/2017)





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
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
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
	1704106-01	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-01	7/7/2017	<0.001	<0.001	<0.001	<0.002
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
	1704106-02	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-02	7/7/2017	<0.001	<0.001	<0.001	0.0055
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
	1704106-03	4/7/2017	0.0079	<0.001	<0.001	<0.002
	1707039-03	7/7/2017	0.0038	<0.001	0.014	0.0036
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			
	1704106-04	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-04	7/7/2017	<0.001	<0.001	<0.001	<0.002
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
	1704106-05	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-05	7/7/2017	<0.001	<0.001	<0.001	<0.002



**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
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
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
	1704106-06	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-06	7/7/2017	<0.001	<0.001	<0.001	<0.002
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
	1704106-07	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-07	7/7/2017	<0.001	<0.001	<0.001	<0.002
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					
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
	1704106-08	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-08	7/7/2017	<0.001	<0.001	<0.001	<0.002

mg/L - milligrams per liter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

NA - Not applicable

PSH - Phase-Separated Hydrocarbons



**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
	4/7/2017	NA	20.82	5098.95		33.45
	7/7/2017	NA	21.25	5098.52		33.27
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
	4/7/2017	NA	22.41	5099.58		33.40
	7/7/2017	NA	23.11	5098.88		33.42
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
	4/7/2017	NA	23.13	5099.25		31.70
	7/7/2017	NA	23.69	5098.69		34.95
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
	4/7/2017	NA	24.45	5098.72		29.31
	7/7/2017	NA	24.80	5098.37		29.21
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
	4/7/2017	NA	25.35	5096.97		29.25
	7/7/2017	NA	25.68	5096.64		29.18



**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-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
	4/7/2017	NA	19.51	5099.37		26.85
	7/7/2017	NA	20.30	5098.58		26.69
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
	4/7/2017	NA	21.01	5099.60		28.65
	7/7/2017	NA	21.73	5098.88		28.56
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					
MW-9A	12/2/2016	NA	21.05	5099.64		28.84
	1/17/2017	NA	20.72	5099.97		28.65
	4/7/2017	NA	20.60	5100.09		28.72
	7/7/2017	NA	21.17	5099.52		28.58

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

July 14, 2017

Jennifer Galles

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Prospect Energy

Enclosed are the results of analyses for samples received by Summit Scientific on 07/07/17 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ben Shrewsbury', with a long, sweeping horizontal stroke extending to the right.

Ben Shrewsbury

Laboratory Manager



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1707039-01	Water	07/07/17 11:10	07/07/17 15:15
MW-2A	1707039-02	Water	07/07/17 11:30	07/07/17 15:15
MW-3A	1707039-03	Water	07/07/17 10:40	07/07/17 15:15
MW-4	1707039-04	Water	07/07/17 11:00	07/07/17 15:15
MW-6	1707039-05	Water	07/07/17 10:50	07/07/17 15:15
MW-7	1707039-06	Water	07/07/17 11:25	07/07/17 15:15
MW-8	1707039-07	Water	07/07/17 11:15	07/07/17 15:15
MW-9A	1707039-08	Water	07/07/17 11:05	07/07/17 15:15

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  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

# Summit Scientific

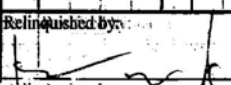
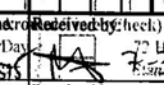
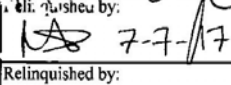
741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

1707039

Page 1 of 1

Client: Talon/LPE	Project Manager: Jennifer Galles
Address: 1811 East Mulberry	E-Mail: jgalles@talonlpe.com
City/State/Zip: Fort Collins, CO 80524	Project Name: Prospect Energy
Phone: 970-818-5330 Fax:	Project Number: 702108.001.07
Sampler Name: Ken Rogowski/Jennifer Galles	

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			
MW-1	7/7/2017	11:10	3	x				x				x			
MW-2A	7/7/2017	11:30	3	x				x				x			
MW-3A	7/7/2017	10:40	3	x				x				x			
MW-4	7/7/2017	11:00	3	x				x				x			
MW-6	7/7/2017	10:50	3	x				x				x			
MW-7	7/7/2017	11:25	3	x				x				x			
MW-8	7/7/2017	11:15	3	x				x				x			
MW-9A	7/7/2017	11:05	3	x				x				x			

Relinquished by: 	Date/Time: 7-7-17 18:20	Received by: 	Date/Time: 7-7-17 15:15	Turn Around Time (Check): Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>
Relinquished by: 	Date/Time: 7-7-17 18:20	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 21.6 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

# Sample Receipt Checklist

S2 Work Order: 1707039

Client: TALON Client Project ID: PROSPECT ENERGY

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

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

Cooler ID					
Temp (°C)	<u>21.6</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<u>X</u>			<u>on ice</u>
Were all samples received intact <sup>(1)</sup> ?	<u>X</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>X</u>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<u>X</u>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<u>X</u>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<u>X</u>			
For volatiles in water – is there headspace present? if yes, contact client and note in narrative.		<u>X</u>		
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<u>X</u>			<u>HCL</u>
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			<u>X</u>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
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

7-7-17  
Signature or Initials of Custodian

18:15  
Date/Time



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

**MW-1**  
**1707039-01 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/11/17	07/11/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.4 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

**MW-2A**  
**1707039-02 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5.5</b>	<b>2.0</b>	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

**MW-3A**  
**1707039-03 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3.8</b>	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>14</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.6</b>	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		89.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

**MW-4**  
**1707039-04 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

**MW-6**  
**1707039-05 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

**MW-7**  
**1707039-06 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

**MW-8**  
**1707039-07 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

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Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

**MW-9A**  
**1707039-08 (Water)**

**Summit Scientific**

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

Date Sampled: **07/07/17 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1707066	07/12/17	07/12/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/07/17 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		88.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

Reported:  
07/14/17 15:48

## 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 1707066 - EPA 5030 Water MS

##### Blank (1707066-BLK1)

Prepared & Analyzed: 07/11/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.9	37-154			
Surrogate: Toluene-d8	13.9		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	45-146			

##### LCS (1707066-BS1)

Prepared & Analyzed: 07/11/17

Benzene	26.5	1.0	ug/l	33.3		79.4	51-132			
Toluene	31.1	1.0	"	33.3		93.2	51-138			
Ethylbenzene	35.8	1.0	"	33.1		108	58-146			
m,p-Xylene	69.0	2.0	"	66.5		104	57-144			
o-Xylene	34.9	1.0	"	32.7		107	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.6	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	45-146			

##### Matrix Spike (1707066-MS1)

Source: 1707039-01

Prepared & Analyzed: 07/11/17

Benzene	26.7	1.0	ug/l	33.3	ND	80.0	34-141			
Toluene	31.7	1.0	"	33.3	ND	95.1	27-151			
Ethylbenzene	36.3	1.0	"	33.1	ND	110	29-160			
m,p-Xylene	69.7	2.0	"	66.5	ND	105	20-166			
o-Xylene	35.1	1.0	"	32.7	ND	107	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		92.8	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	45-146			

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy  
Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

**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 1707066 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1707066-MSD1)</b>	<b>Source: 1707039-01</b>			<b>Prepared &amp; Analyzed: 07/11/17</b>						
Benzene	26.8	1.0	ug/l	33.3	ND	80.3	34-141	0.412	32	
Toluene	31.8	1.0	"	33.3	ND	95.3	27-151	0.284	25	
Ethylbenzene	36.8	1.0	"	33.1	ND	111	29-160	1.42	50	
m,p-Xylene	71.0	2.0	"	66.5	ND	107	20-166	1.79	36	
o-Xylene	35.7	1.0	"	32.7	ND	109	33-159	1.72	26	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3		103	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	45-146			

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Prospect Energy

Project Number: 702108.001.07  
Project Manager: Jennifer Galles

**Reported:**  
07/14/17 15:48

### 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