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

November 2, 2017

Prepared By:

Talon/LPE
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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 Fourth 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 0.075 feet/foot between monitoring wells MW-9A and MW-3A. Depth to water was observed between 19.23 ft bgs in MW-9A to 29.90 ft bgs

in MW-3A. Calculated groundwater elevations are detailed in Table 3 and groundwater elevation contours are presented on Figure 3.

5 Field Activities

5.1 Monitoring Well Abandonment

During Third Quarter 2017, Talon formally requested for monitoring wells MW-7, MW-8, and MW-9A to be removed from the sampling program and be properly abandoned. On September 12, 2017, COGCC personnel requested that MW-9A remain in the sampling program, but agreed to the plugging and abandoning of MW-7 and MW-8.

On September 21, 2017, Talon personnel plugged and abandoned MW-7 and MW-8 by removing the uppermost portion of the well casings and filling the wells with bentonite which was then hydrated. Concrete was poured from the surface to approximately two (2) feet below ground surface and native material was used to cover the surface of the wells.

5.2 Monitoring Well Groundwater Sampling

On October 2, 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 October 17, 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.

The analytical result for benzene in monitoring well MW-3A was 0.017 mg/L, which is above the COGCC Table 910-1 concentration level of 0.005 mg/L and is an increase in concentration since the previous sampling event. All remaining laboratory analytical results for were below laboratory detection limits or 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 Fourth 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 0.075 ft/foot.

The analytical result for benzene in monitoring well MW-3A was 0.0170 mg/L, which is above COGCC Table 910-1 concentration level and is an increase in concentration since the previous sampling event. All remaining laboratory analytical results for were below laboratory detection limits or COGCC Table 910-1 concentration levels.

The analytical results for monitoring well MW-9A 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 well MW-9A from the sampling plan and to properly plug and abandon this well. 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 January 2018.

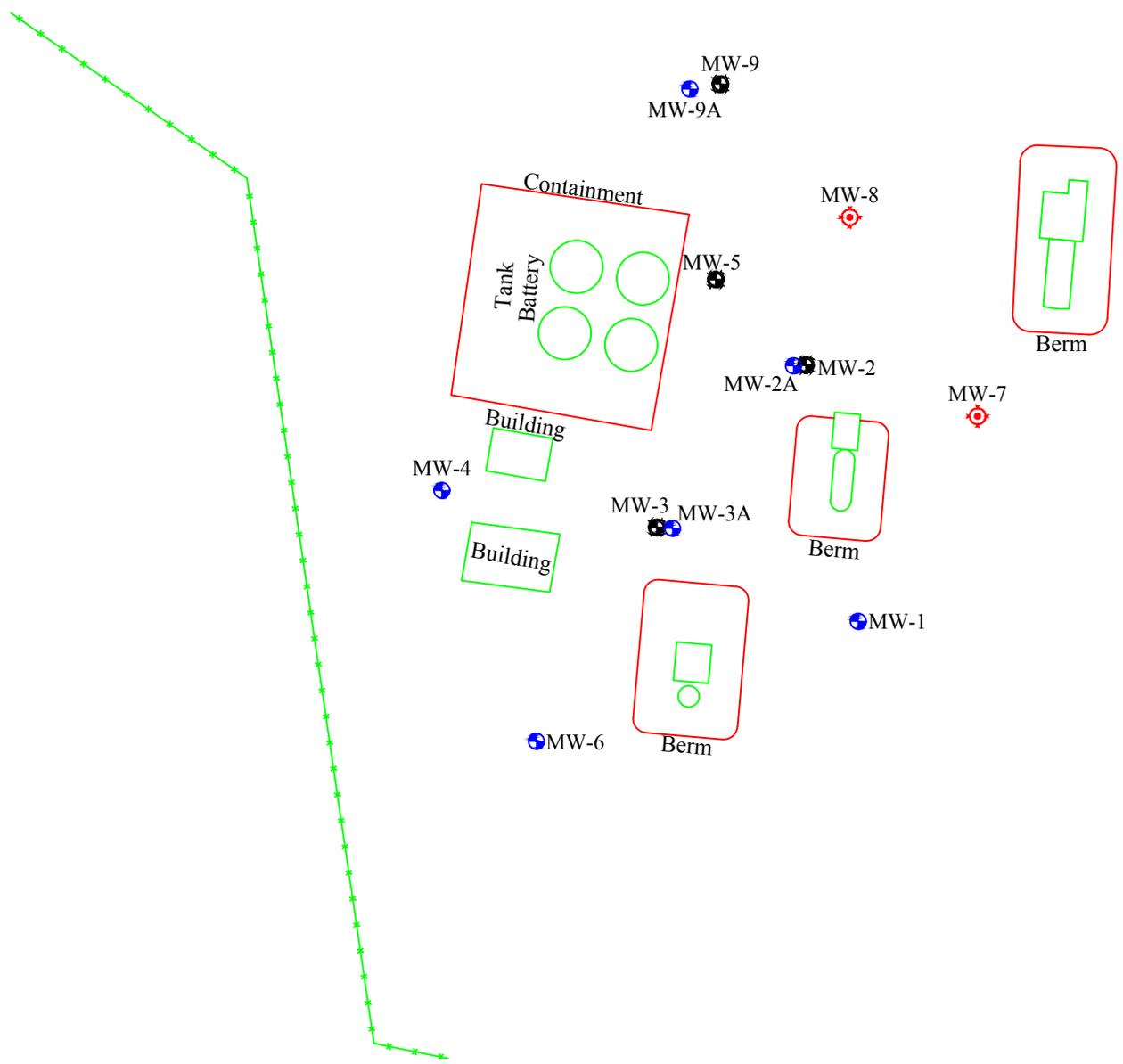
Attachment 1
Figures



Scale in Feet

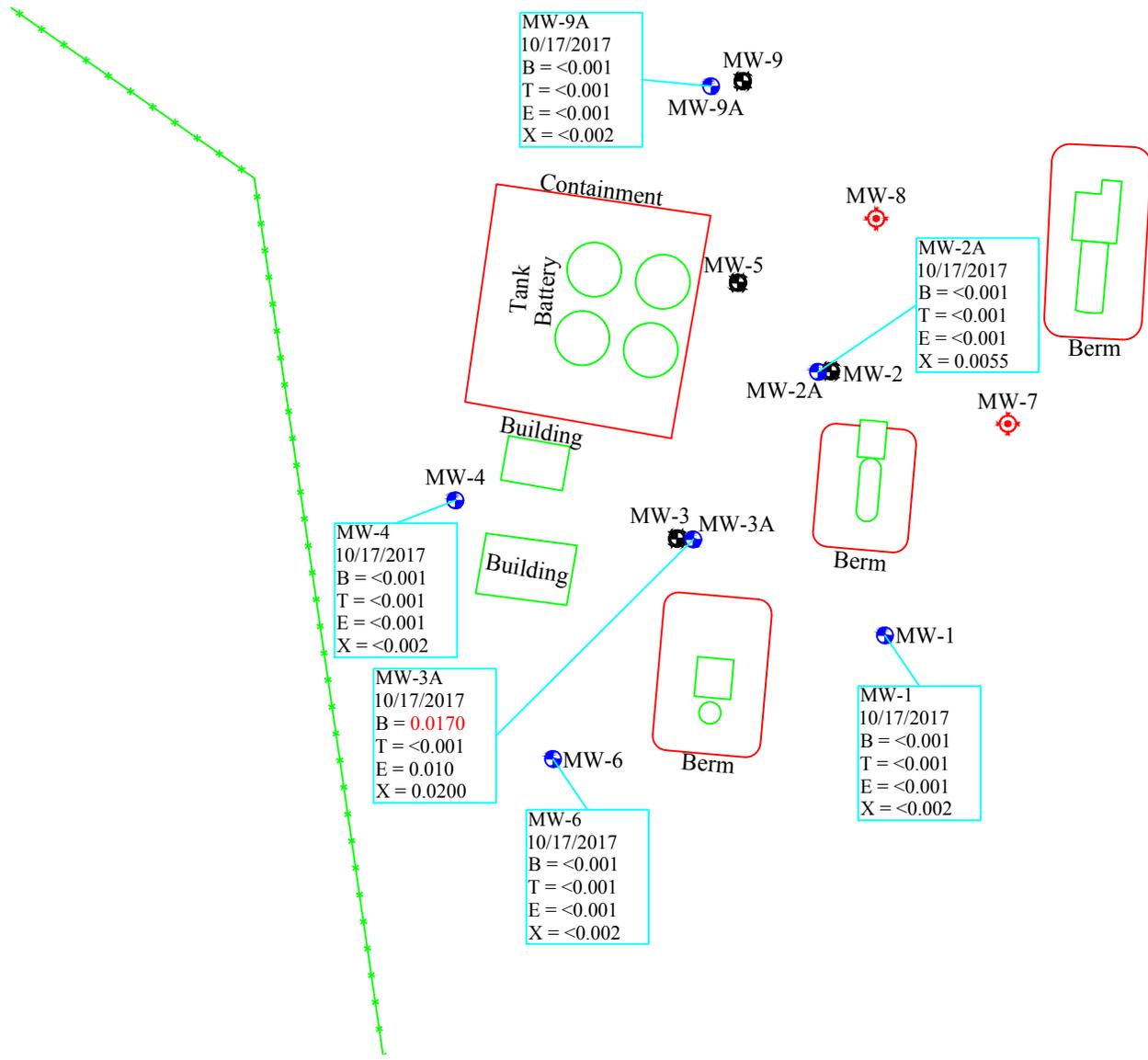
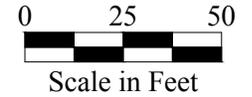
Legend

- Monitor Well
- Plugged & Abandoned Well
- Destroyed Monitor Well
- Fence line



Date: 11/01/2017
Scale: 1" = 50'
Drawn By: IJM

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



Legend	
	- Monitor Well
	- Plugged & Abandoned Well
	- Destroyed Monitor Well
	- Fence line
COGCC Levels (mg/kg)	
B = 0.005	
T = 1	
E = 0.7	
X = 10	

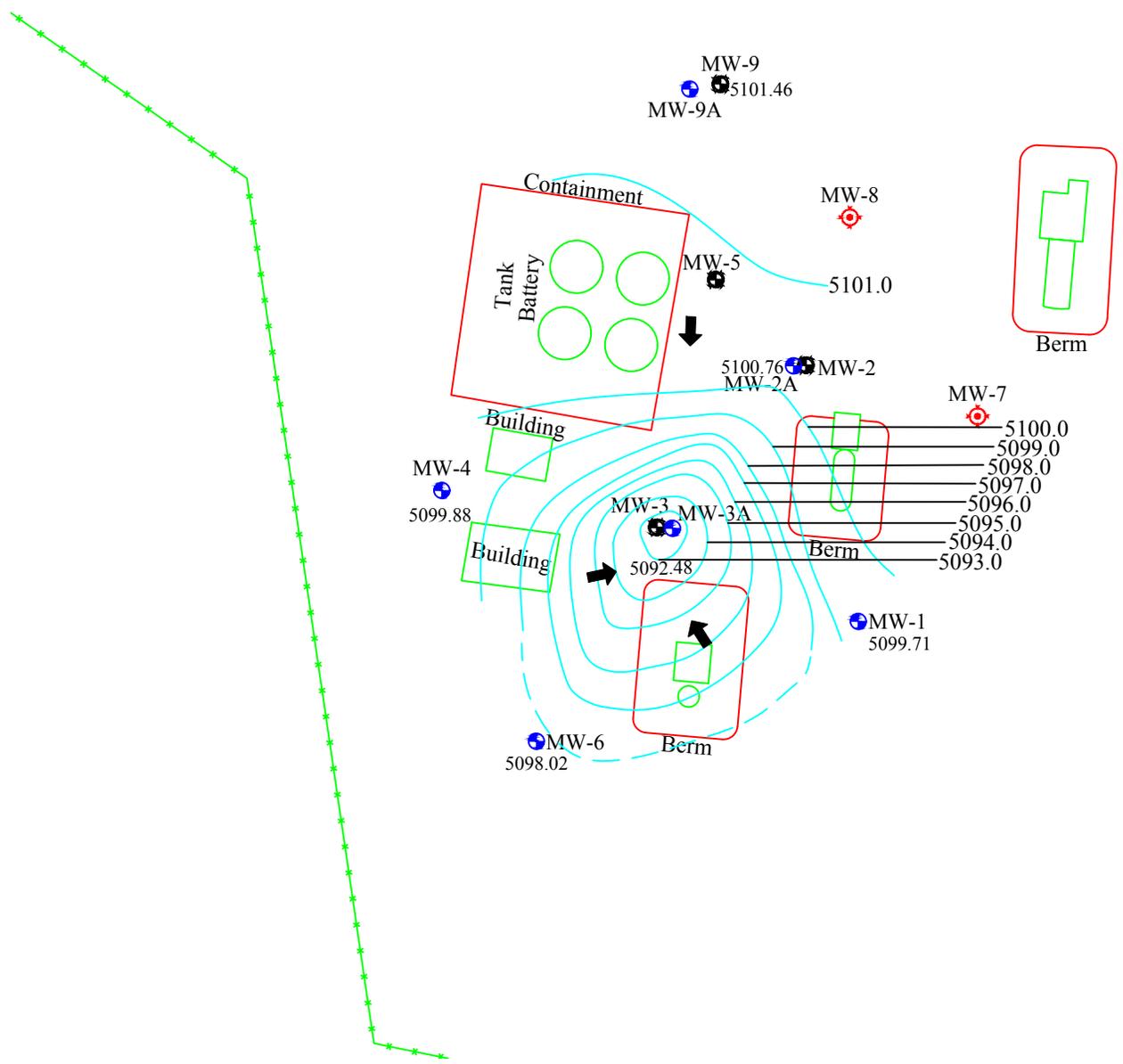


Date: 11/02/2017
Scale: 1" = 50'
Drawn By: IJM

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 2 - Groundwater Concentration Map (10/17/2017)



Scale in Feet

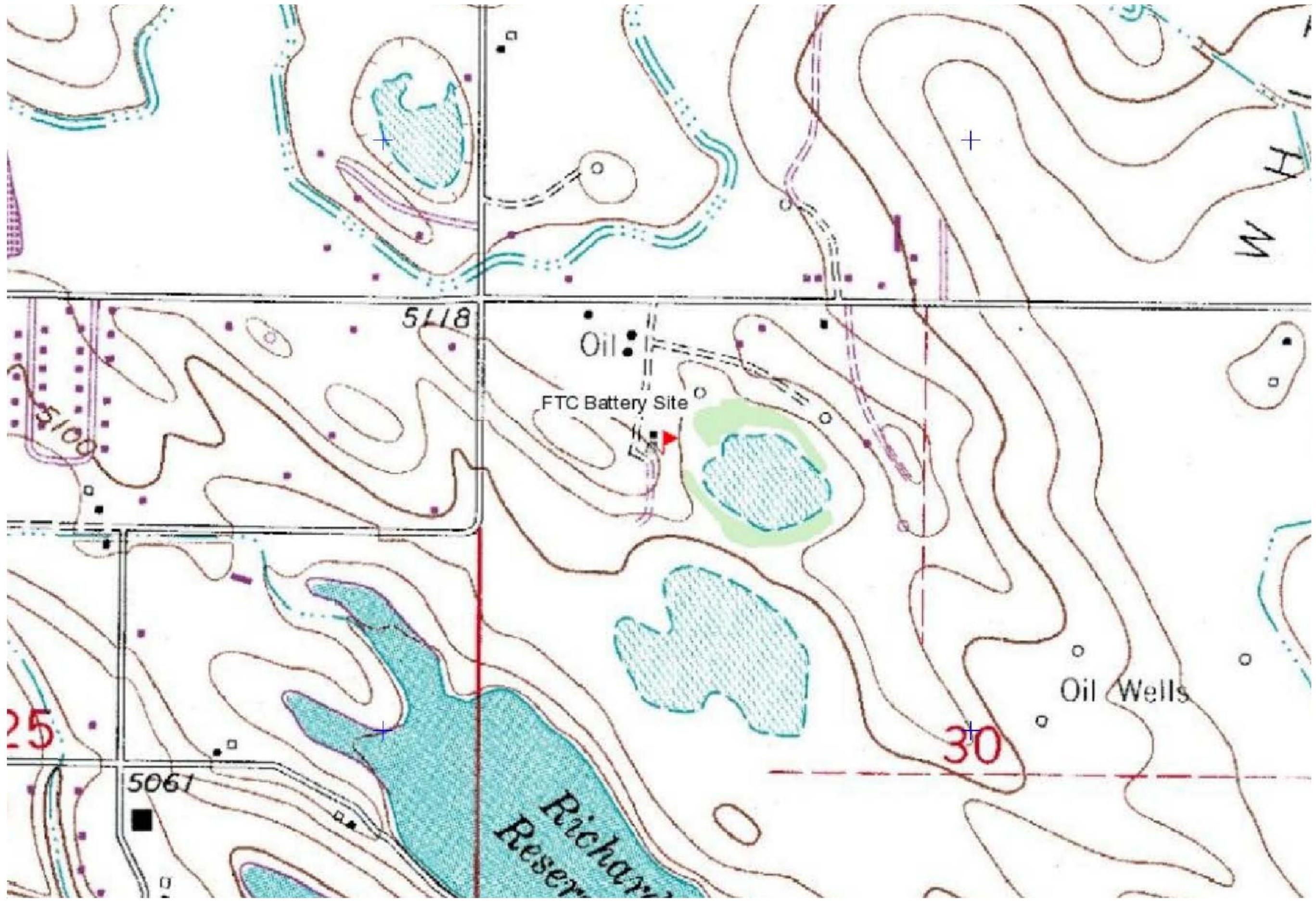


Legend	
	- Monitor Well
	- Plugged & Abandoned Well
	- Destroyed Monitor Well
	- Fence line
	- Groundwater Gradient Contour Line
	- Groundwater Gradient Contour Elevation
	- Groundwater Flow Direction



Date: 11/01/2017
Scale: 1" = 50'
Drawn By: IJM

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 3 - Groundwater Elevation Contour Map (10/17/2017)



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**

Well ID	Latitude	Longitude	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Screen Interval (ft bgs)
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
	1710187-01	10/17/2017	<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
	1710187-02	10/17/2017	<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
	1710187-03	10/17/2017	0.0170	<0.001	0.010	0.0200
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
	1710187-04	10/17/2017	<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
	1710187-05	10/17/2017	<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
Abandoned 09/2017						
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
Abandoned 09/2017						
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
	1710187-05	10/17/2017	<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
	10/17/2017	NA	20.06	5099.71		33.21
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
	10/17/2017	NA	21.23	5100.76		33.10
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
	10/17/2017	NA	29.90	5092.48		32.68
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
	10/17/2017	NA	23.29	5099.88		29.32
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
	10/17/2017	NA	24.30	5098.02		29.20



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
Abandoned						
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
Abandoned						
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
	10/17/2017	NA	19.23	5101.46		28.79

NA - Not Applicable

NM - Not Measured

ft - feet

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

Attachment 3
Analytical Reports

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 19, 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 10/17/17 16:00. 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 line 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:
10/19/17 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1710187-01	Water	10/17/17 13:30	10/17/17 16:00
MW-2A	1710187-02	Water	10/17/17 12:15	10/17/17 16:00
MW-3A	1710187-03	Water	10/17/17 12:58	10/17/17 16:00
MW-4	1710187-04	Water	10/17/17 13:10	10/17/17 16:00
MW-6	1710187-05	Water	10/17/17 12:40	10/17/17 16:00
MW-9A	1710187-06	Water	10/17/17 12:30	10/17/17 16:00
Dup-A	1710187-07	Water	10/17/17 13:15	10/17/17 16:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1710187

Sample Receipt Checklist

S2 Work Order: _____

Client: Talon/LPE

Client Project ID: Prospect Energy

Shipped Via: PIU

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

Matrix (check all that apply):

Air

Soil/Solid

Water

Other: _____

(Describe)

Cooler ID				
Temp (°C)	7.9			

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 ⁽¹⁾ ? 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 ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	✓			HCl
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

10/17/17 1645
Date/Time



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

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

Reported:
 10/19/17 16:39

MW-1
1710187-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	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:
 10/19/17 16:39

MW-2A
1710187-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

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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:
 10/19/17 16:39

MW-3A
1710187-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	17	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	10	1.0	"	"	"	"	"	"	
Xylenes (total)	20	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %	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:
 10/19/17 16:39

MW-4
1710187-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	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:
10/19/17 16:39

MW-6
1710187-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	45-146		"	"	"	"	

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 1811 E Mulberry
 Ft Collins CO, 80524

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

Reported:
 10/19/17 16:39

MW-9A
1710187-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	45-146		"	"	"	"	

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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:
 10/19/17 16:39

Dup-A
1710187-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/17 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	16	1.0	ug/l	1	1710191	10/19/17	10/19/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	9.9	1.0	"	"	"	"	"	"	
Xylenes (total)	17	2.0	"	"	"	"	"	"	

Date Sampled: **10/17/17 13:15**

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>		96.5 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	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:
10/19/17 16:39

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 1710191 - EPA 5030 Water MS

Blank (1710191-BLK1)

Prepared & Analyzed: 10/19/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	45-146			

LCS (1710191-BS1)

Prepared & Analyzed: 10/19/17

Benzene	38.9	1.0	ug/l	33.3		117	51-132			
Toluene	39.6	1.0	"	33.3		119	51-138			
Ethylbenzene	42.9	1.0	"	33.1		130	58-146			
m,p-Xylene	79.2	2.0	"	66.5		119	57-144			
o-Xylene	39.3	1.0	"	32.7		120	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	45-146			

Matrix Spike (1710191-MS1)

Source: 1710187-01

Prepared & Analyzed: 10/19/17

Benzene	39.2	1.0	ug/l	33.3	ND	117	34-141			
Toluene	40.7	1.0	"	33.3	ND	122	27-151			
Ethylbenzene	44.6	1.0	"	33.1	ND	135	29-160			
m,p-Xylene	82.1	2.0	"	66.5	ND	123	20-166			
o-Xylene	41.0	1.0	"	32.7	ND	125	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		109	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	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:
10/19/17 16:39

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 1710191 - EPA 5030 Water MS

Matrix Spike Dup (1710191-MSD1)	Source: 1710187-01			Prepared & Analyzed: 10/19/17						
Benzene	40.2	1.0	ug/l	33.3	ND	121	34-141	2.75	32	
Toluene	40.6	1.0	"	33.3	ND	122	27-151	0.148	25	
Ethylbenzene	44.2	1.0	"	33.1	ND	134	29-160	0.766	50	
m,p-Xylene	81.5	2.0	"	66.5	ND	122	20-166	0.795	36	
o-Xylene	40.2	1.0	"	32.7	ND	123	33-159	1.80	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.2</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.9</i>	<i>45-146</i>			

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:
10/19/17 16:39

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