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**Groundwater Monitoring Report
Fourth Quarter 2016
Fort Collins Tank Battery**

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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 2016, including the replacement of three monitoring wells, and 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 Soil Concentrations	COGCC Table 910-1 Groundwater Concentrations
Benzene	0.17 mg/kg	0.005 mg/L
Toluene	85 mg/kg	1.0 mg/L
Ethylbenzene	100 mg/kg	0.7 mg/L
Xylenes (total)	175 mg/kg	10 mg/L
Naphthalene	23 mg/kg	Not Applicable
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	Not Applicable

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 0.019 feet/foot. Depth to water was observed between 20.62 ft bgs in MW-7 to 26.18 ft bgs in MW-6. Calculated groundwater elevations are detailed in Table 3 and groundwater elevation contours are presented on Figure 4. Calculated groundwater elevations from monitoring wells MW-2A and MW-3A were excluded from the groundwater elevation contours as the elevations didn't align with those of surrounding wells. This may be due to their recent installation. Talon will continue to observe the groundwater elevations in these wells during future quarterly monitoring events.

5 Field Activities

5.1 Monitoring Well Installation

On October 13, 2016, Talon oversaw Drilling Engineers of Fort Collins, Colorado perform the drilling and installation of two monitoring wells. MW-2A and MW-3A were installed as replacement wells for MW-2 and MW-3, respectively, which were destroyed during excavation activities at the Site. An excavation was performed as part of the remediation efforts for a leak reported on COGCC Form 19 in May 2015. The extent of the excavation included monitoring wells MW-2, MW-3, and MW-5, physically removing them from the Site.

Prior to drilling activities, utility line locate requests were performed through Colorado 811 and private locate services. Each well was sited in the direct vicinity of the previous well locations and verified to be outside of any present utility marks.

Each well was drilled using hollow-stem auger (HSA) technology with a 7 7/8-inch diameter auger. During field drilling activities, soil samples were visually observed by the on-site geologist for lithology and potential areas of impacts. Boring logs detailing observed lithology as well as well construction details are included in Attachment 3. Soil samples were not collected during drilling activities as no elevated photoionization detector (PID) readings were observed above the assumed water table.

Each well was constructed using 4-inch Schedule 40 PVC, with a 0.010-inch slotted screen. Both wells were drilled to a total depth of approximately 34 ft bgs, and constructed using 15 feet of slotted screen (19-34 ft bgs) and 19 feet of plain casing riser. The casing and screen were centered in the borehole and the annular space was filled with 10/20 silica sand to two (2) feet above the top of screen, followed by bentonite chips to two (2) ft bgs, then concrete to the surface. Each surface completion was constructed with a flush-mounted well vault in a concrete pad to prevent impedance of vehicle traffic.

5.2 Monitoring Well Development and Groundwater Sampling

On October 17, 2016, Talon performed groundwater monitoring and sampling. Prior to sampling, depth to water was measured in each well (Table 3). Monitoring well MW-5 was destroyed during previous excavation activities on site, which also destroyed monitoring wells MW-2 and MW-3 as described previously. During the quarterly monitoring activities, Talon

observed damage to monitoring well MW-9 and was unable to perform monitoring and sampling of this well.

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.

On October 18, 2016, Talon returned to the site to collect 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.

Laboratory analytical results for benzene in monitoring well MW-3A (0.038 mg/L) was above COGCC Table 910-1 concentration level. Analytical results for toluene (0.0086 mg/L), ethylbenzene (0.038 mg/L) and xylenes (0.16 mg/L) in MW-2A were below COGCC 910-1 concentration levels. All remaining groundwater sample analytical results (Table 2) for BTEX from the remaining wells were below laboratory detection limits.

Based on the elevated benzene analytical result in MW-3A, Talon recommended to Prospect to install Advanced Oxygen Release Compound (ORC-A) socks with the intent of increasing degradation of the existing benzene and the natural aerobic biodegradation rates within the well. Talon personnel installed the ORC-A socks in MW-3A on December 1, 2016.

5.3 Monitoring Well Abandonment

Monitoring well MW-5 was destroyed during excavation activities on site during the summer of 2016. COGCC approved a request to remove this well from the sampling plan as this well had historically exhibited BTEX concentrations below laboratory detection limits and was located upgradient of any site impacts. On November 4, 2016, Talon filed a well abandonment report for this well with the Colorado Division of Water Resources (DWR).

On November 2, 2016, Talon inspected monitoring well MW-9 following a recent crude oil release at the Site. The purpose of the inspection was to investigate if crude oil from the release had impacted the monitoring well which was previously observed to have been damaged. The inspection demonstrated that crude oil had migrated down the well.

Following the inspection, Prospect contractors utilized a backhoe to remove the well vault and gain access to the well casing. Talon purged the well until it became dry and collected a groundwater sample after the water level recovered. The collected sample was submitted to Summit for laboratory analysis of BTEX. Following the sampling, Talon plugged and abandoned monitoring well MW-9 by filling the casing with bentonite hole plug to approximately three (3) feet bgs. Talon then backfilled with cement to approximately six (6) inches above the top of casing. Prospect contractors backfilled the remaining void with clean native soil. Talon filed a well abandonment report for this well with the Colorado DWR.

The collected groundwater sample exhibited a benzene analytical result of 0.31 mg/L, which is

above the COGCC Table 910-1 concentration level of 0.005 mg/L. The analytical results for toluene (0.86 mg/L), ethylbenzene (0.22 mg/L), and xylenes (1.1 mg/L) were below COGCC Table 910-1 concentration levels (Table 2).

5.4 Monitoring Well Replacement

Due to the elevated benzene result in monitoring well MW-9, a replacement well MW-9A was installed. On December 1, 2016, Talon oversaw Drilling Engineers drill and install the replacement well.

MW-9A was drilled using hollow-stem auger (HSA) technology with a 7 7/8-inch diameter auger. During field drilling activities, soil samples were visually observed by the on-site geologist for lithology and potential areas of impacts. Boring logs detailing observed lithology as well as well construction details are included in Attachment 3. One (1) soil sample was collected during drilling activities at a depth of 15-20 ft bgs which is the assumed water table. The sample was submitted to Summit for analysis of BTEX and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO). All analytical results for the soil sample were below laboratory detection limits (Table 3).

MW-9A was constructed using 4-inch Schedule 40 PVC, with a 0.010-inch slotted screen. The well was drilled to a total depth of approximately 30 ft bgs, and constructed using 15 feet of slotted screen (15-30 ft bgs) and 15 feet of plain casing riser. The casing and screen were centered in the borehole and the annular space was filled with 10/20 silica sand to two (2) feet above the top of screen, followed by bentonite chips to two (2) ft bgs, then concrete to the surface. The surface completion was constructed with a flush-mounted well vault in a concrete pad to prevent impedance of vehicle traffic. Prospect personnel placed concrete barriers around the well to further protect the surface completion from vehicle traffic.

Following the well construction, Talon personnel developed the well by purging five (5) casing volumes of groundwater. The purge water was stored in a 55-gallon drum onsite pending removal via vacuum truck. On December 2, Talon collected a groundwater sample from monitoring well MW-9A and submitted it to Summit for analysis of BTEX. All groundwater analytical results for BTEX were below COGCC Table 910-1 concentration levels (Table 2).

5.5 Monitoring Well Survey

On December 12, 2016, Talon personnel oversaw King Surveyors of Windsor, Colorado perform the professional survey. Latitude and longitude coordinates plus ground surface elevation and top of casing elevation were surveyed for the three (3) replacement wells MW-2A, MW-3A, and MW-9A. Details of the survey can be found in Table 1.

6 Summary and Recommendations

During Fourth Quarter 2016, Talon oversaw the drilling and installation of monitoring wells MW-2A, MW-3A and MW-9A. Talon developed the new wells, monitored the groundwater on site, and collected groundwater samples from the Site. Groundwater flow was calculated to be to the south-southwest at 0.019 ft/foot.

Monitoring well MW-3A exhibited a benzene concentration of 0.038 mg/L, which is above COGCC Table 910-1 concentration level. Analytical results for toluene (0.0086 mg/L), ethylbenzene (0.038 mg/L) and xylenes (0.16 mg/L) in MW-3A were below COGCC 910-1 concentration levels.

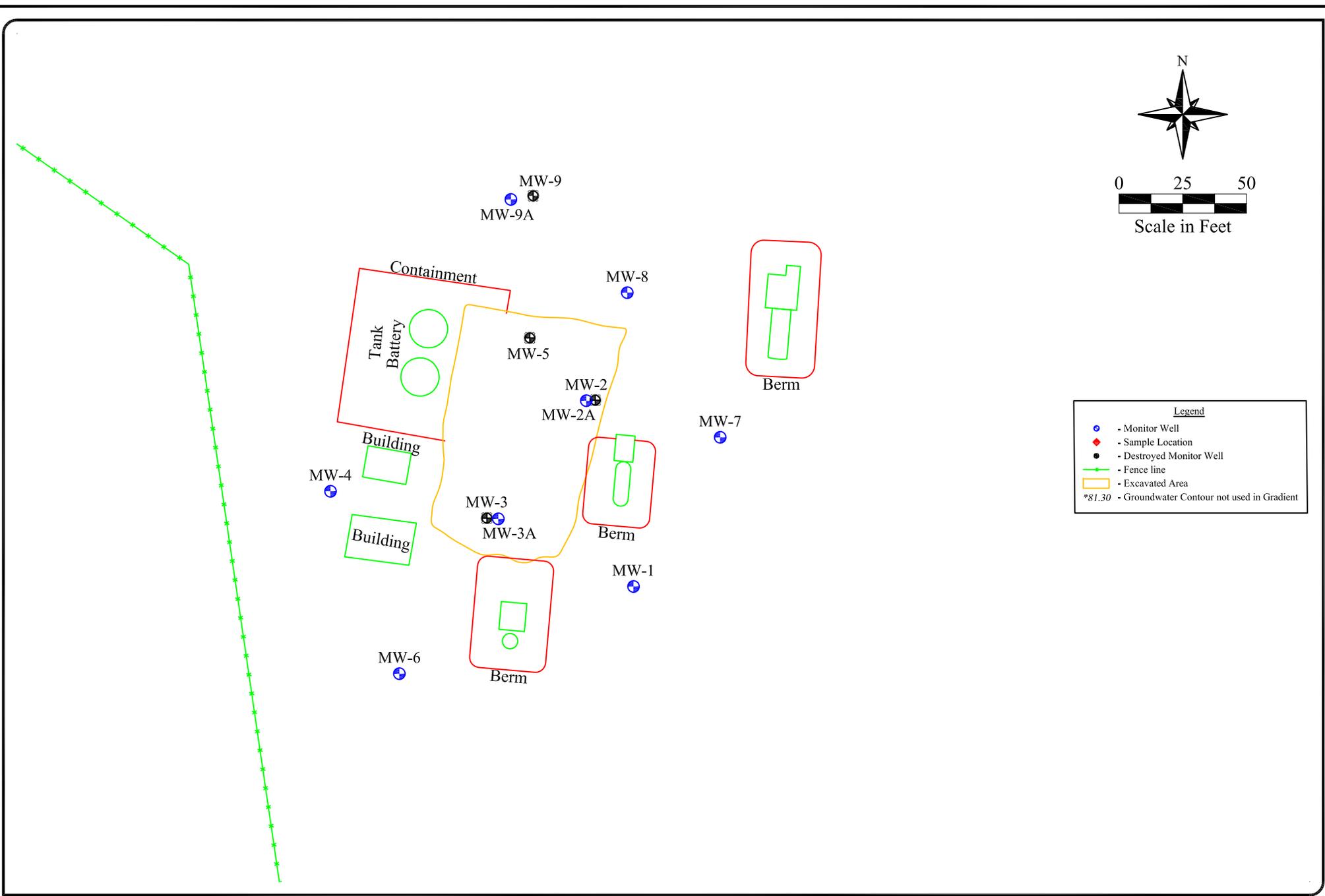
Monitoring well MW-9 exhibited a benzene analytical result of 0.31 mg/L, which is above the COGCC Table 910-1 concentration level. The analytical results in MW-9 for toluene (0.86 mg/L), ethylbenzene (0.22 mg/L), and xylenes (1.1 mg/L) were below COGCC Table 910-1 concentration levels (Table 2).

Groundwater samples collected from the remaining wells exhibited concentrations below laboratory reporting limits.

Monitoring wells MW-2, MW-3, and MW-5 were removed during excavation activities; monitoring well MW-9 was properly plugged and abandoned. Abandonment reports were filed with Colorado DWR for these wells. Replacement well permits were filed with DWR for MW-2A, MW-3A, and MW-9A.

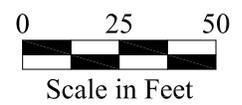
Talon will continue quarterly monitoring at the Site. The next sampling event is anticipated to occur in January 2017.

Attachment 1
Figures



Date: 12/29/2016
 Scale: 1" = 50'
 Drawn By: TJS

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

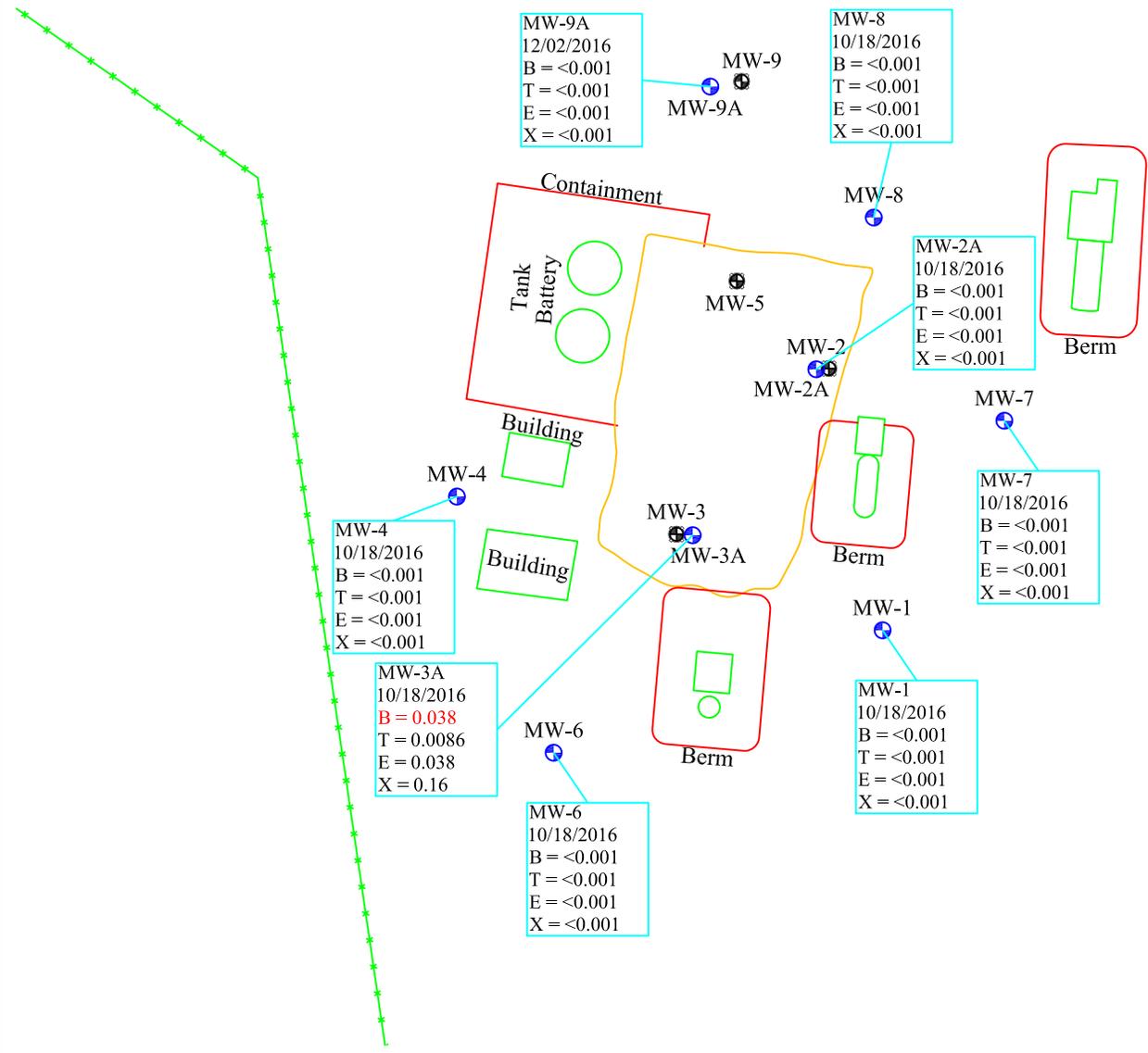


Legend

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

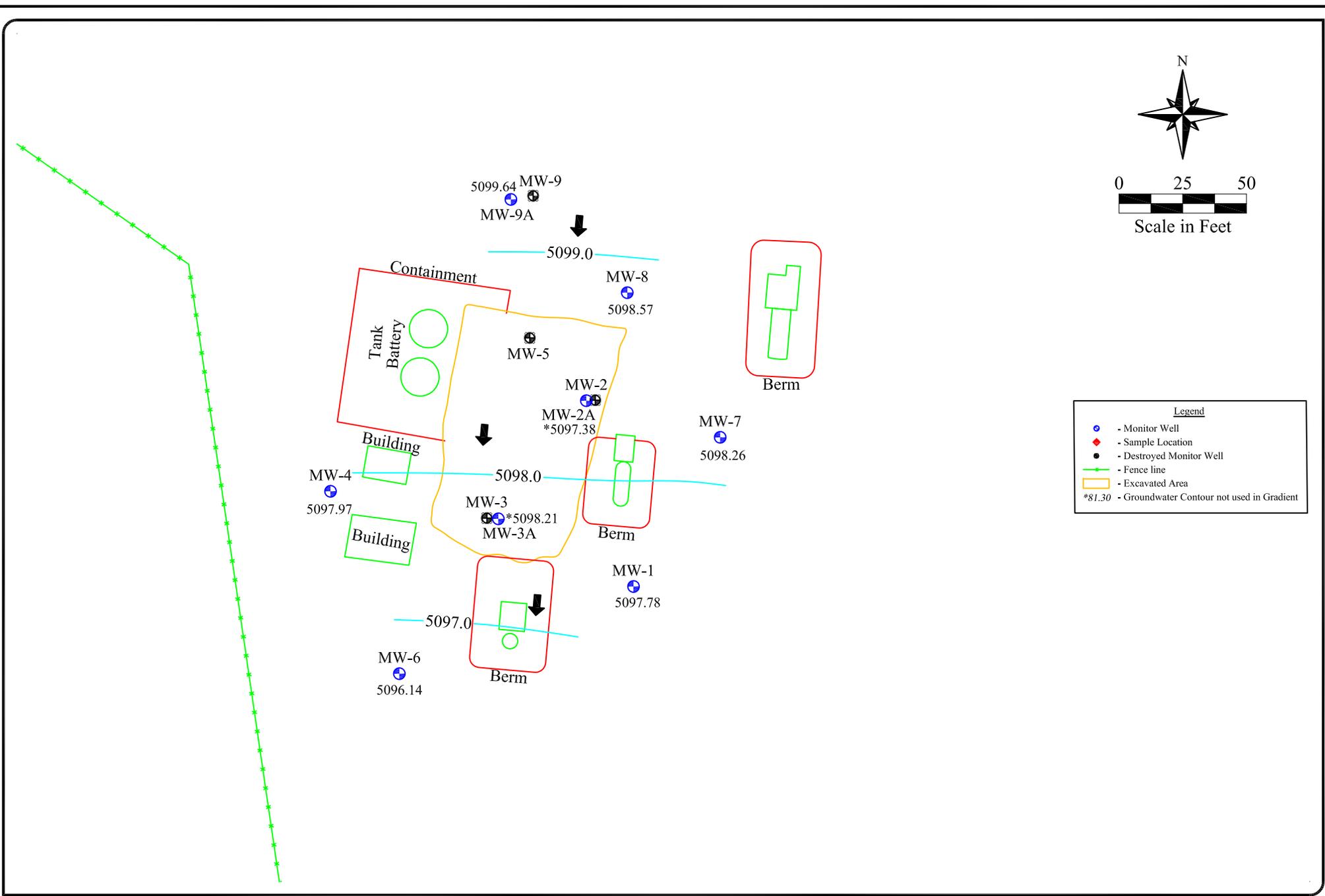
COGCC Levels (mg/L)

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



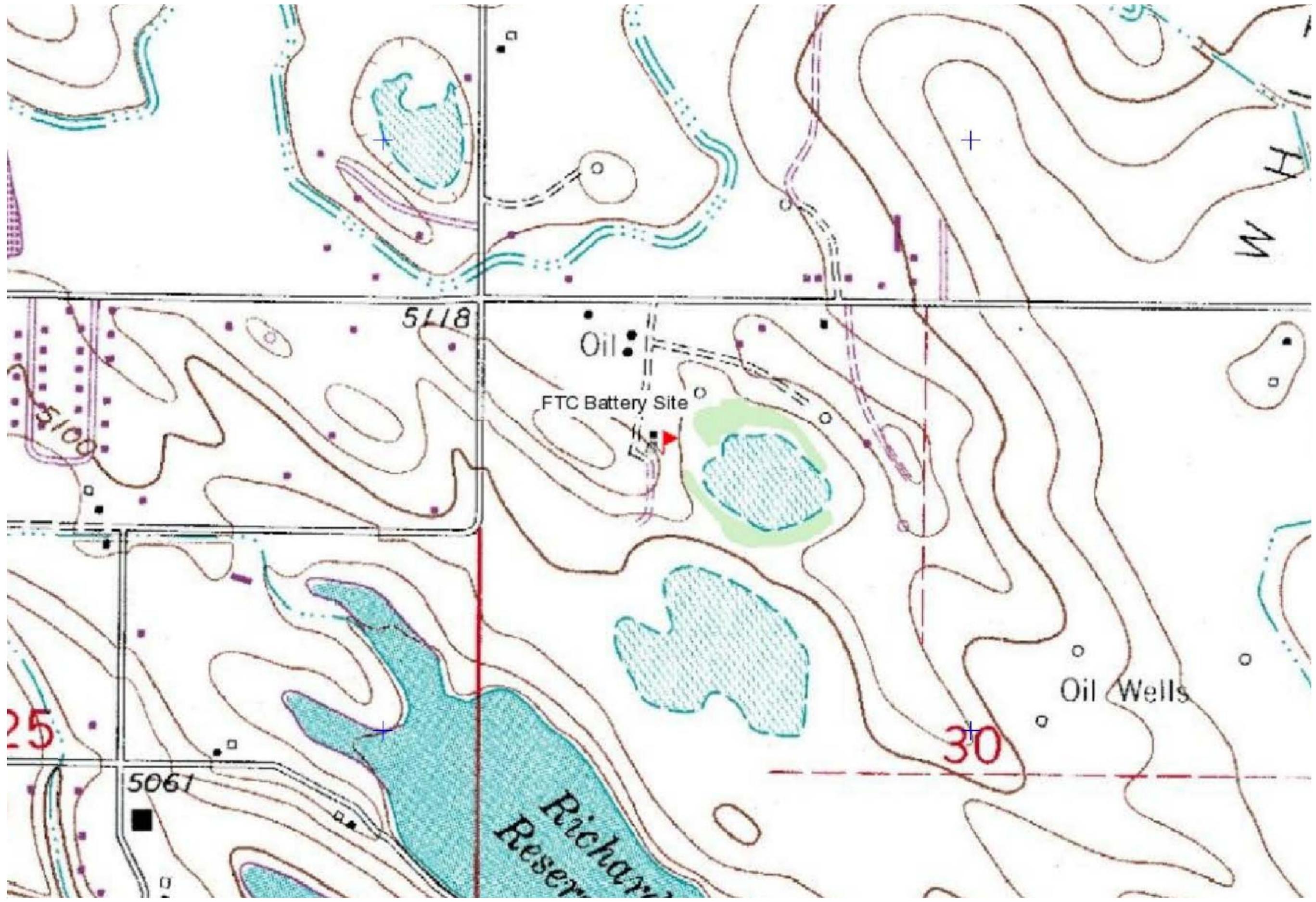
Date: 12/29/2016
Scale: 1" = 50'
Drawn By: TJS

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 2 - Groundwater Concentration Map (10/18/2016 - 12/02/2016)



Date: 12/29/2016
 Scale: 1" = 50'
 Drawn By: TJS

FTC Battery
 Prospect Energy
 Larimer County, Colorado
 Figure 3 - Groundwater Elevation Contour Map (10/17/2016 & 12/02/2016)



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

Date: 12/29/2016
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
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
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
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
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
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
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
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

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
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
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
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
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
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
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
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

NA - Not Applicable

NM - Not Measured

ft - feet

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



Table 4 - Soil Analytical Data

Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)							
			Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Naphthalene	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels (mg/kg)			0.17	85	100	175	23	NA	NA	500
MW-01 15-20	1508244-1	8/11/2015	<0.0058	<0.0058	<0.0058	<0.005	<0.0058	<0.52	<5.9	<5.9
MW-01 20-25	1508244-2	8/11/2015	<0.0058	<0.0058	<0.0058	<0.005	<0.0058	<0.59	24	24
MW-01 25-30	1508244-3	8/11/2015	<0.0056	<0.0056	<0.0056	<0.005	<0.0056	<0.38	<5.7	<5.7
MW-02 10-15	1508244-4	8/11/2015	<0.0054	<0.0054	<0.0054	<0.005	<0.0054	0.97	<5.5	<5.5
MW-02 15-20	1508244-5	8/11/2015	<0.0056	<0.0056	<0.0056	<0.005	<0.0056	0.98	6.6	7.58
MW-02 20-25	1508244-6	8/11/2015	0.22	1.1	0.64	2.9	0.5	280	1900	2180
MW-02 25-30	1508244-7	8/11/2015	<0.058	0.048	0.24	0.49	0.4	38	1600	1638
MW-02 30-35	1508244-8	8/11/2015	<0.0056	<0.0056	<0.0056	<0.005	0.0075	<0.48	<5.6	<5.6
MW-03 5-10	1508244-9	8/12/2015	<0.0054	<0.0054	<0.0054	<0.005	<0.0054	<0.51	<5.7	<5.7
MW-03 10-15	1508244-10	8/12/2015	<0.0056	<0.0056	<0.0056	0.0096	<0.0056	<0.49	<5.7	<5.7
MW-03 15-20	1508244-11	8/12/2015	<0.0052	0.0083	<0.0052	0.017	<0.0052	0.72	<5.6	<5.6
MW-03 20-25	1508244-12	8/12/2015	0.013	<0.0057	0.017	0.062	<0.0057	1.1	<5.8	<5.8
MW-03 25-30	1508244-13	8/12/2015	<0.0059	<0.0059	<0.0059	<0.005	<0.0059	<0.56	16	16
MW-04 5-10	1508244-14	8/12/2015	<0.0056	<0.0056	<0.0056	<0.005	<0.0056	<0.56	<5.6	<5.6
MW-04 10-15	1508244-15	8/12/2015	<0.0056	<0.0056	<0.0056	<0.005	<0.0056	<0.4	<5.5	<5.5
MW-04 20-25	1508244-16	8/12/2015	<0.0057	<0.0057	<0.0057	<0.005	<0.0057	<0.45	<5.9	<5.9
MW-05 10-15	1508244-17	8/12/2015	<0.0055	<0.0055	0.059	0.54	0.89	24	1700	1724
MW-05 15-20	1508244-18	8/12/2015	<0.0057	<0.0057	0.059	0.22	0.17	16	690	706
MW-05 20-25	1508244-19	8/12/2015	<0.006	<0.006	0.038	0.0096	0.059	10	140	150
MW-05 25-30	1508244-20	8/12/2015	<0.0056	<0.0056	<0.0056	<0.005	<0.0056	<0.54	<5.7	<5.7
MW-06 5-10	1508244-21	8/13/2015	<0.0052	<0.0052	<0.0052	<0.005	<0.0052	<0.52	<5.4	<5.4
MW-06 10-15	1508244-22	8/13/2015	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.44	<5.5	<5.5
MW-06 15-20	1508244-23	8/13/2015	<0.0055	<0.0055	<0.0055	<0.005	<0.0055	<0.53	<5.5	<5.5
MW-06 20-25	1508244-24	8/13/2015	<0.0057	<0.0057	<0.0057	<0.005	<0.0057	<0.46	<5.9	<5.9
MW-07 15-20	1508244-25	8/13/2015	<0.0054	<0.0054	<0.0054	<0.005	<0.0054	<0.55	<5.9	<5.9
MW-07 20-25	1508244-26	8/13/2015	<0.0057	<0.0057	<0.0057	<0.005	<0.0057	<0.55	<6	<6
MW-08 10-15	1508244-27	8/13/2015	<0.0053	<0.0053	<0.0053	<0.005	<0.0053	<0.37	8	8
MW-08 15-20	1508244-28	8/13/2015	<0.0059	<0.0059	<0.0059	<0.005	<0.0059	<0.53	<5.8	<5.8
MW-08 20-25	1508244-29	8/13/2015	<0.006	<0.006	<0.006	<0.005	<0.006	0.6	130	130.6
MW-09 15-20	1508244-30	8/13/2015	<0.0055	<0.0055	<0.0055	<0.005	<0.0055	0.69	27	27.69
MW-09 20-25	1508244-31	8/13/2015	<0.0059	<0.0059	<0.0059	<0.005	<0.0059	<0.53	<6	<6
MW-09A 15-20	1612009-01	12/1/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	<50	<50
SB-1 4'	1602184-01	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	<50	<50
SB-1 8'	1602184-02	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	<50	<50
SB-2 4'	1602184-03	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	<50	<50
SB-2 8'	1602184-04	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	<50	<50
SB-3 4'	1602184-05	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	2.4	83	85.4
SB-3 8'	1602184-06	2/23/2016	<0.0020	<0.0050	<0.0050	<0.0050	NS	<0.50	57	57

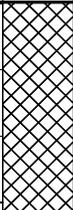
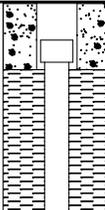
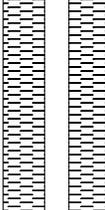
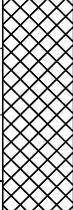
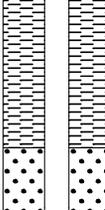
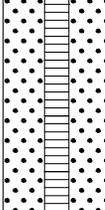
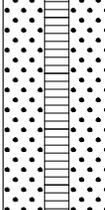
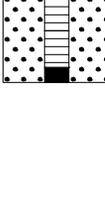
mg/kg - milligrams per kilogram
 < - Analytical result is less than the reporting limit
 COGCC - Colorado Oil and Gas Conservation Commission
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics
 TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)
 NS - Not sampled
 NA - Not applicable

Attachment 3
Boring Logs

SOIL BORING / MONITORING WELL LOG

PROJECT: FTC Tank Battery
 PROJECT NUMBER: 702108.001.02
 CLIENT: Prospect Energy, 1229 East Douglas Road, Fort
 BORING / WELL NUMBER: MW-2A
 TOTAL DEPTH: 34'
 SURFACE ELEVATION: _____
 GEOLOGIST: Jennifer Galles

DRILLING COMPANY: Drilling Engineers
 DRILLER: Rob G.
 DRILLING METHOD: HSA
 BORE HOLE DIAMETER: 7 7/8"
 SCREEN: Diam. 4" Length 15' Slot Size 0.010
 CASING: Diam. 4" Length 19' Type Sch. 40 PVC
 DATE DRILLED: October 13, 2016

DEPTH (FT.)	Soil Symbol	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
6							Backfill, Slightly Moist, Sand and Gravel with Some Clay, Slight Plasticity, No Odor	6
12						12		
18						18		
24			N/A				Silty Clay, Dark, Plastic, Moist, 2.5Y 2.5/1 Black, No Odor	24
30			0.0		25'	30'		30
36			0.0		34'	34'	36	
							Bottom of Hole	36

REMARKS:

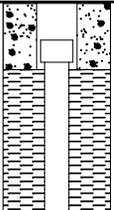
THIS WELL DIAGRAM AND BORING LOG SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT



SOIL BORING / MONITORING WELL LOG

PROJECT: FTC Tank Battery
 PROJECT NUMBER: 702108.001.02
 CLIENT: Prospect Energy, 1229 East Douglas Road, Fort
 BORING / WELL NUMBER: MW-3A
 TOTAL DEPTH: 34'
 SURFACE ELEVATION: _____
 GEOLOGIST: Jennifer Galles

DRILLING COMPANY: Drilling Engineers
 DRILLER: Rob G.
 DRILLING METHOD: HSA
 BORE HOLE DIAMETER: 7 7/8"
 SCREEN: Diam. 4" Length 15' Slot Size 0.010
 CASING: Diam. 4" Length 19' Type Sch. 40 PVC
 DATE DRILLED: October 13, 2016

DEPTH (FT.)	Soil Symbol	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
6							Backfill, Silty Sand w/ Clay and Trace Gravels, Moist, No Odor, Moderate Plasticity	6
12								12
18								18
24			0.0			20'	Backfill, Silty Sand w/ Clay and Trace Red Gravels, Moist, No Odor, Moderate Plasticity, 10YR 4/3 Brown	24
30			0.0			25'	Silty Clay, Plastic, Moist to Wet, Very Slight Odor, Dark Brown w/ Patches of Black, 10YR 4/3 Brown to 10YR 2/1 Black	30
						30'	Silty Clay, Plastic, Wet, Odor, 2.5Y 3/1 Very Dark Gray	30
			272			32'	Silty Sand, Tan, Loose, Saturated, No Odor, 10YR 4/4 Olive Brown	
						34'	Bottom of Hole	
36			1.4					36

REMARKS:

THIS WELL DIAGRAM AND BORING LOG SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT



KEY TO SYMBOLS

Symbol Description

Strata symbols



Fill



Silty low plasticity
clay



Silty sand

Monitor Well Details



recessed cover
set in concrete



bentonite pellets



silica sand, blank PVC



slotted pipe w/ sand



endcap on pipe
packed in sand

Notes:

1. Exploratory borings were drilled on October 13, 2016 using a 7 7/8-inch diameter power auger and 2-inch diameter split spoon sampler.
2. These logs are subject to the limitations, conclusions, and recommendations in this report.

SOIL BORING / MONITORING WELL LOG

PROJECT: FTC Battery
 PROJECT NUMBER: 702108.001.04
 CLIENT: Prospect Energy
 BORING / WELL NUMBER: MW-9A
 TOTAL DEPTH: 30'
 SURFACE ELEVATION: _____
 GEOLOGIST: Jennifer Galles

DRILLING COMPANY: Drilling Engineers
 DRILLER: Ben
 DRILLING METHOD: HSA
 BORE HOLE DIAMETER: 7 7/8"
 SCREEN: Diam. 4" Length 15' Slot Size 0.010
 CASING: Diam. 4" Length 15' Type Sch. 40 PVC
 DATE DRILLED: December 1, 2016

DEPTH (FT.)	Soil Symbol	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
						5'	Silty Clay, Dry, Loose, 10YR 5/3 Brown, No Odor	
6			0.0			10'	Silt with Trace Gravels, Slightly Moist, 10YR 5/3 Brown, No Odor	6
12			1.3			15'	Silt, Moist, Slight Plasticity, Trace Veins of Iron, No Odor, 10YR 4/3 Brown	12
18			0.3	15'-20'		20'	Clay, Wet, Plastic, Some Black Staining at 17' then back to Brown, 2.5Y 4/3 Olive Brown	18
24			0.4			25'	Clay, Wet, Plastic, No Odor, 2.5Y 4/3 Olive Brown	24
30			0.0			30'	SAA, More Compact	30
36			0.0				Bottom of Hole	36

REMARKS:

THIS BORING SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT



KEY TO SYMBOLS

Symbol Description

Strata symbols

 Low plasticity
clay

 Silt

Soil Samplers

 Auger

Monitor Well Details

 recessed cover
set in concrete

 bentonite pellets

 silica sand, blank PVC

 slotted pipe w/ sand

 endcap on pipe
packed in sand

Notes:

1. Exploratory borings were drilled on December 1, 2016 using a 4-inch diameter continuous flight power auger.
2. No free water was encountered at the time of drilling or when re-checked the following day.
3. Boring locations were taped from existing features and elevations extrapolated from the final design schematic plan.
4. These logs are subject to the limitations, conclusions, and recommendations in this report.
5. Results of tests conducted on samples recovered are reported on the logs.

Attachment 4
Laboratory Reports

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 21, 2016

Jennifer Galles

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 10/18/16 17:15. 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: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1610145-01	Water	10/18/16 09:20	10/18/16 17:15
MW-2a	1610145-02	Water	10/18/16 09:05	10/18/16 17:15
MW-3a	1610145-03	Water	10/18/16 09:10	10/18/16 17:15
MW-4	1610145-04	Water	10/18/16 09:45	10/18/16 17:15
MW-6	1610145-05	Water	10/18/16 09:25	10/18/16 17:15
MW-7	1610145-06	Water	10/18/16 09:15	10/18/16 17:15
MW-8	1610145-07	Water	10/18/16 09:00	10/18/16 17:15

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: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

Summit Scientific

1610145

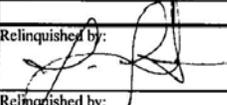
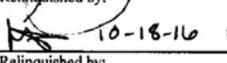
741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: Talon/LPE

Address: _____
City/State/Zip: _____
Phone: 970-818-5330 Fax: _____
Sampler Name: JGalles, J Levertor

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com
Project Name: Prospect FTC Battery
Project Number: 702108.001.03

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)				
MW-1	10/18/16	0920	1	X				X				X	BTEX		
MW-2a		0905													
MW-3a		0910													
MW-4		0945													
MW-6		0925													
MW-7		0915													
MW-8		0900													
Relinquished by:  Date/Time: 10-18-16 17:15				Received by:  Date/Time: 10-18-16 17:15				Turn Around Time (Check)				Notes:			
Relinquished by:  Date/Time: 10-18-16 17:10				Received by:				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>							
Relinquished by:				Received in Lab by:				24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished by:				Received in Lab by:				48 Hours <input type="checkbox"/>				Sample Integrity:			
								Temperature Upon Receipt: 10.3				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

www.s2scientific.com

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

Sample Receipt Checklist

S2 Work Order: 1610145
 Client: Talon Client Project ID: Prospect FTC Battery
 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)	10.3			

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⁾ ?			X	
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⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	X			HCL preserved
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 ⁽¹⁾ ?			X	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri P.
Custodian Printed Name

NA 10-18-16
Signature or Initials of Custodian

18:06
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

MW-1
1610145-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>121 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>107 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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.



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
 Project Manager: Jennifer Galles

Reported:
 10/21/16 10:07

MW-2a
1610145-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		121 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	45-146		"	"	"	"	

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

MW-3a
1610145-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	38	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	8.6	1.0	"	"	"	"	"	"	
Ethylbenzene	38	1.0	"	"	"	"	"	"	
Xylenes (total)	160	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		130 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

MW-4
1610145-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		106 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	45-146		"	"	"	"	

Summit Scientific

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



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
 Project Manager: Jennifer Galles

Reported:
 10/21/16 10:07

MW-6
1610145-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	45-146		"	"	"	"	

Summit Scientific

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



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
 Project Manager: Jennifer Galles

Reported:
 10/21/16 10:07

MW-7
1610145-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>118 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>109 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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.



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
 Project Manager: Jennifer Galles

Reported:
 10/21/16 10:07

MW-8
1610145-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/16 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610199	10/20/16	10/20/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/16 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>104 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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.



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

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 1610199 - EPA 5030 Water MS

Blank (1610199-BLK1)

Prepared & Analyzed: 10/20/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	37-154			
Surrogate: Toluene-d8	14.2		"	13.3		106	45-149			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		110	45-146			

LCS (1610199-BS1)

Prepared & Analyzed: 10/20/16

Benzene	27.9	1.0	ug/l	33.3		83.7	51-132			
Toluene	28.7	1.0	"	33.3		86.2	51-138			
Ethylbenzene	36.6	1.0	"	33.1		111	58-146			
m,p-Xylene	66.1	2.0	"	66.5		99.3	57-144			
o-Xylene	34.7	1.0	"	32.7		106	53-146			
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.3		120	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	15.3		"	13.3		115	45-146			

Matrix Spike (1610199-MS1)

Source: 1610145-01

Prepared & Analyzed: 10/20/16

Benzene	28.4	1.0	ug/l	33.3	ND	85.1	34-141			
Toluene	28.7	1.0	"	33.3	ND	86.2	27-151			
Ethylbenzene	36.2	1.0	"	33.1	ND	110	29-160			
m,p-Xylene	66.0	2.0	"	66.5	ND	99.2	20-166			
o-Xylene	34.4	1.0	"	32.7	ND	105	33-159			
Surrogate: 1,2-Dichloroethane-d4	17.1		"	13.3		128	37-154			
Surrogate: Toluene-d8	13.7		"	13.3		103	45-149			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110	45-146			

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

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 1610199 - EPA 5030 Water MS

Matrix Spike Dup (1610199-MSD1)	Source: 1610145-01			Prepared & Analyzed: 10/20/16						
Benzene	28.6	1.0	ug/l	33.3	ND	85.8	34-141	0.808	32	
Toluene	29.3	1.0	"	33.3	ND	87.9	27-151	2.03	25	
Ethylbenzene	35.0	1.0	"	33.1	ND	106	29-160	3.31	50	
m,p-Xylene	63.6	2.0	"	66.5	ND	95.7	20-166	3.58	36	
o-Xylene	33.6	1.0	"	32.7	ND	103	33-159	2.47	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>18.1</i>		<i>"</i>	<i>13.3</i>		<i>136</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.6</i>		<i>"</i>	<i>13.3</i>		<i>110</i>	<i>45-146</i>			

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.03
Project Manager: Jennifer Galles

Reported:
10/21/16 10:07

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 08, 2016

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: FTC Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/16 16:30. 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: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9	1611015-01	Water	11/02/16 13:50	11/02/16 16:30

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

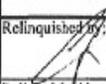
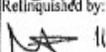
Summit Scientific

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

Page 1 of 1

Client: Talon/LPE	Project Manager: Colby Sterling
Address: 1811 East Mulberry	E-Mail: esterling@talonlpe.com
City/State/Zip: Fort Collins, CO 80525	Project Name: FTC Battery
Phone: 970-818-5330 Fax:	Project Number: 702108.001.04
Sampler Name: Jennifer Galkes / Colby Sterling	

1611015
~~1610015~~

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:				Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX						
MW-9	11/2/2016	1350	3	x														
Relinquished by: 	Date/Time: 11-2-16 16:30	Received by: 	Date/Time: 11-2-16 16:30	Turn Around Time (Check)				Notes:										
				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: 11-2-16 18:25	Received by: 	Date/Time: 11-2-16 18:25	Sample Integrity:				Temperature Upon Receipt: 22.7										
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														

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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.





Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery

Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

Sample Receipt Checklist

S2 Work Order: 1611015
 Client: Talon Client Project ID: FTC Battery
 Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>22.7</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 ⁽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⁾ ?	✓			HCL preserved
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 ⁽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.				

Murip
Custodian Printed Name

MA 11-2-16
Signature or Initials of Custodian

18:30
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

MW-9
1611015-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	310	100	ug/l	100	1611059	11/05/16	11/05/16	EPA 8260B	
Toluene	860	100	"	"	"	"	"	"	
Ethylbenzene	220	100	"	"	"	"	"	"	
Xylenes (total)	1100	100	"	"	"	"	"	"	

Date Sampled: **11/02/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	45-146		"	"	"	"	

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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 1611059 - EPA 5030 Water MS

Blank (1611059-BLK1)

Prepared & Analyzed: 11/05/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	37-154			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	45-146			

LCS (1611059-BS1)

Prepared & Analyzed: 11/05/16

Benzene	39.0	1.0	ug/l	33.3		117	51-132			
Toluene	32.6	1.0	"	33.3		97.7	51-138			
Ethylbenzene	40.9	1.0	"	33.1		124	58-146			
m,p-Xylene	78.6	2.0	"	66.5		118	57-144			
o-Xylene	39.5	1.0	"	32.7		121	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	37-154			
Surrogate: Toluene-d8	13.6		"	13.3		102	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	45-146			

Matrix Spike (1611059-MS1)

Source: 1610255-06

Prepared & Analyzed: 11/05/16

Benzene	41.0	1.0	ug/l	33.3	ND	123	34-141			
Toluene	34.0	1.0	"	33.3	ND	102	27-151			
Ethylbenzene	44.4	1.0	"	33.1	ND	134	29-160			
m,p-Xylene	84.8	2.0	"	66.5	ND	127	20-166			
o-Xylene	42.8	1.0	"	32.7	ND	131	33-159			
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	45-146			

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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

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

Batch 1611059 - EPA 5030 Water MS

Matrix Spike Dup (1611059-MSD1)	Source: 1610255-06			Prepared & Analyzed: 11/05/16						
Benzene	41.4	1.0	ug/l	33.3	ND	124	34-141	0.995	32	
Toluene	34.4	1.0	"	33.3	ND	103	27-151	1.23	25	
Ethylbenzene	44.8	1.0	"	33.1	ND	135	29-160	0.875	50	
m,p-Xylene	85.8	2.0	"	66.5	ND	129	20-166	1.17	36	
o-Xylene	43.2	1.0	"	32.7	ND	132	33-159	0.883	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.6</i>		<i>"</i>	<i>13.3</i>		<i>117</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.6</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>45-146</i>			

Summit Scientific

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 08, 2016

Jennifer Galles

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 12/01/16 15:55. 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: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9A 15-20'	1612009-01	Soil	12/01/16 09:52	12/01/16 15:55

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: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

Summit Scientific

1612009

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

Page ___ of ___

Client: Talon/LPE	Project Manager: Jennifer Galles
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com - jgalles@talonlpe.com
City/State/Zip: Fort Collins, CO 80525	Project Name: Prospect Energy - FTC Battery
Phone: 970-818-5330 Fax:	Project Number: 702108.001.02
Sampler Name: Jennifer Galles	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions			
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GROUNDRO						
MW-9A 15-20'	12/1/2016	952	1		x														
Relinquished by: <i>[Signature]</i>	Date/Time: 12.1.16 15:55	Received by: <i>[Signature]</i>	Date/Time: 12-1-16 15:55	Turn Around Time (Check)				Notes:											
				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: <i>[Signature]</i>	Date/Time: 12-1-16 17:30	Received by:	Date/Time:	Sample Integrity:															
				Temperature Upon Receipt:	13.1														
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>													

www.s2scientific.com

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: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

Sample Receipt Checklist

S2 Work Order: 1612009

Client: Talon Client Project ID: Prospect Energy - FTC Battery

Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID				
Temp (°C)	<u>13.1</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 ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
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 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Murid
Custodian Printed Name

JD 12-1-16
Signature or Initials of Custodian

17:30
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

MW-9A 15-20'
1612009-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1612038	12/05/16	12/05/16	8015M	

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1612057	12/06/16	12/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1612038 - EPA 3550A

Blank (1612038-BLK1)

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	ND	50	mg/kg							
<i>Surrogate: o-Terphenyl</i>	12.0		"	12.5		95.7	30-150			

LCS (1612038-BS1)

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	452	50	mg/kg	499		90.6	73-134			
<i>Surrogate: o-Terphenyl</i>	14.9		"	12.5		119	30-150			

Matrix Spike (1612038-MS1)

Source: 1612009-01

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	465	50	mg/kg	499	14.3	90.3	50-148			
<i>Surrogate: o-Terphenyl</i>	15.3		"	12.5		122	30-150			

Matrix Spike Dup (1612038-MSD1)

Source: 1612009-01

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	500	50	mg/kg	499	14.3	97.4	50-148	7.28	20	
<i>Surrogate: o-Terphenyl</i>	15.1		"	12.5		121	30-150			

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Project: Prospect Energy - FTC Battery
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Reported:
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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 1612057 - EPA 5030 Soil MS

Blank (1612057-BLK1)

Prepared & Analyzed: 12/06/16

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>21-167</i>			

LCS (1612057-BS1)

Prepared & Analyzed: 12/06/16

Benzene	0.114	0.0020	mg/kg	0.100		114	58-130			
Toluene	0.112	0.0050	"	0.100		112	61-134			
Ethylbenzene	0.113	0.0050	"	0.0992		114	74-139			
m,p-Xylene	0.219	0.010	"	0.200		110	73-137			
o-Xylene	0.113	0.0050	"	0.0980		116	73-141			
Xylenes (total)	0.332	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.93	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>21-167</i>			

Matrix Spike (1612057-MS1)

Source: 1612009-01

Prepared & Analyzed: 12/06/16

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	30-131			
Toluene	0.105	0.0050	"	0.100	ND	105	30-134			
Ethylbenzene	0.102	0.0050	"	0.0992	ND	103	22-153			
m,p-Xylene	0.198	0.010	"	0.200	ND	99.2	10-159			
o-Xylene	0.103	0.0050	"	0.0980	ND	105	31-151			
Xylenes (total)	0.301	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.74	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0427</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>21-167</i>			

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Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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 1612057 - EPA 5030 Soil MS

Matrix Spike Dup (1612057-MSD1)	Source: 1612009-01			Prepared & Analyzed: 12/06/16						
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	30-131	5.67	34	
Toluene	0.0984	0.0050	"	0.100	ND	98.4	30-134	6.63	30	
Ethylbenzene	0.0967	0.0050	"	0.0992	ND	97.5	22-153	5.26	24	
m,p-Xylene	0.184	0.010	"	0.200	ND	92.3	10-159	7.14	68	
o-Xylene	0.0959	0.0050	"	0.0980	ND	97.9	31-151	7.41	38	
Xylenes (total)	0.280	0.0050	"		ND		30-150	7.23	20	
Gasoline Range Hydrocarbons	1.62	0.50	"		ND		30-150	6.95	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

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Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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