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**Nelson C-1  
Groundwater Monitoring Report - 2018  
Remediation Project No. 9146**

March 1, 2019

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**Prepared For:**  
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## 1 Introduction

Talon/LPE (Talon) was contracted by Whiting Petroleum Corporation (Whiting) to conduct groundwater monitoring activities at the Nelson C1 site (Site) in Weld County, Colorado. The site is located at the northwest quarter of the southeast quarter of Section 18, Township 10 North, Range 58 West, 6th Principal Meridian at 40°50'10.72"N and 103°54'17.73"W (Attachment 1). The site is identified by the State of Colorado Oil and Gas Conservation Commission (COGCC) as Spill/Release Point Facility ID 441208 and as Remediation Project Number 9146. The Site Plan is shown on Figure 1, and the general site location is shown on Figure 18.

## 2 Objective

The primary objective of this document is to report on-site activities completed during 2018 which included well installation, quarterly groundwater monitoring and product removal.

## 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 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 Pawnee Grasslands in Weld County, which is the northeastern part of Colorado. The Grasslands are part of the Colorado Eastern Plains and are relatively flat with the exception of the Pawnee Creek which drains into the South Platte River.

### 4.2 Geologic Summary

Geology in this area consists of Oligocene age soils of the White River Group comprised of the Brule Formation and Chadron Formation. The Brule Formation consists of interbedded claystones, mudstones, and siltstones of grayish green color. Underlying the Brule Formation is the Chadron Formation comprised of sandstones, claystones, and conglomerates; color varies from yellowish-brown to olive-gray.

### 4.3 Groundwater

According to the Colorado Division of Water Resources Website, there are no water wells within 1,000-foot radius of the Site.

Depth to groundwater levels, as measured on December 27, 2018, in the 31 groundwater monitoring wells range from 27.64 (MW-9) to 42.54 (MW-27) feet below top of casing (Table 3), which are above-ground by approximately three (3) feet (ft). Several wells contain measurable amounts of phase-separated hydrocarbons (PSH) (Table 3 and Figures 2-5).

## 5 Field Investigation Activities

### 5.1 Monitoring Well Installation: MW-23 through MW-31

During April and May of 2018, Talon personnel oversaw Drilling Engineers advance nine (9) monitoring wells (MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30 and MW-31). All nine of the wells were drilled to approximately 30-55 feet below ground surface (bgs). The depths of the monitoring wells were determined in the field based on observed lithology, hydrocarbon odors, and photo ionization detector (PID) values; the goal was to drill until no further odors or elevated PIDs were observed and a confining lithologic layer was observed.

Soil samples were collected from each of the borings during drilling efforts from depths ranging from 10-55 ft bgs. Sample locations were determined based on elevated PID values. Additionally, soil samples were collected from the bottom of each boring and above the assumed groundwater interface to provide additional vertical delineation of any impacts. The collected soil samples were submitted to Summit Scientific (Summit) in Golden, Colorado for analysis of Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), and diesel range organics (DRO) via method SW8015. The remaining soils were stockpiled on-site on a plastic liner pending laboratory analytical results.

The nine (9) monitoring wells were constructed using 4-inch diameter Schedule 40 PVC casing and 10-slot screen. Each well was completed with 10/20 silica sand pack to two (2) ft above the top of the screen interval, sealed with bentonite chips to near-surface, and included an above-ground well mount in a concrete pad.

## 6 Groundwater Monitoring

Groundwater monitoring occurred on a quarterly basis, the monitoring wells were gauged for depth to water and depth to phase separated hydrocarbons (PSH) (Table 3). Wells with less than 0.01 feet of PSH were purged of three (3) well casing volumes, then sampled the following day. If three well casing volumes could not be purged, the wells would be bailed until dry, then allowed to recharge prior to sample collection the following day. During the months of March, June, September and December 2018, Talon personnel collected groundwater samples from the monitoring wells with PSH less than 0.01 feet and submitted the samples to Summit for analysis of BTEX. During Fourth Quarter 2018, monitoring wells MW-1, MW-3, MW-5, MW-6, MW-7, MW-15, MW-17, MW-20, MW-23, and MW-27 were not sampled due to the presence of PSH greater than 0.01 feet. Figures 14-17 show Quarterly groundwater elevation contours and the hydraulic gradient based on wells with no measurable PSH. Typically, the hydraulic gradient flows outward from MW-8 as the highest groundwater level elevation. During Fourth Quarter 2018, the hydraulic gradient has been calculated to be approximately 0.0082 ft/foot to the

southeast between monitoring wells MW-8 and MW-13 and approximately 0.0072 ft/foot to the north-northwest between monitoring wells MW-8 and MW-27.

Purge water generated during development and sampling was placed in poly containers within secondary containment pending off-site disposal.

Table 1 in Attachment 2 summarizes the well completion and survey information. Groundwater analytical results for 2018 are summarized in Table 2 and shown Quarterly on Figures 2-5.

Groundwater laboratory analytical results for Benzene ranged from below laboratory detection limits to 12 mg/L (MW-1 4<sup>th</sup> quarter and MW-8 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters). Figures 6-9 show the Quarterly isoconcentration contours of dissolved-phase Benzene analytical results.

Analytical results for Toluene ranged from below laboratory detection limits to 18 mg/L (MW-27, 2<sup>nd</sup> quarter). Analytical results for Ethylbenzene ranged from below laboratory detection limits to 1.8 mg/L (MW-21, 4<sup>th</sup> quarter). Analytical results for total Xylenes ranged from below laboratory detection limits to 8.7 mg/L (MW-27, 2<sup>nd</sup> quarter).

A copy of laboratory reports and chain of custody documentations for each of the Quarterly groundwater monitoring events is included in Attachment 3.

## 7 Product Removal and Gauging

Talon gauging data has been collected semiweekly during 2018 via hand-bailing, with the exception of five wells with a QED SPG4 skimmer pump system installed. The skimmer pump system was installed at the site on June 20, 2018 in monitoring wells MW-3, MW-5, MW-7, MW-17, and MW-20, and was removed for the winter on October 31, 2019. Gauging data revealed the presence of PSH in monitoring wells MW-1, MW-3, MW-5, MW-6, MW-7, MW-15, MW-17, MW-20, MW-21, MW-23, MW-26 and MW-27. Figures 10-13 show contours of PSH thickness by Quarter.

Product recovery efforts were suspended for two weeks prior to each Quarterly groundwater sampling event to allow the fluid levels in each well to reach static equilibrium. Following the groundwater sampling event, product recovery efforts resumed. All waste produced by hand-bailing is stored on site in sealed, poly containers within secondary containment pending offsite disposal. During 2018, approximately 85 gallons of free product have been recovered from the site via hand-bailing, and approximately 200 gallons of free product have been recovered via the skimmer pump system. Table 4 summarizes PSH removal and recovery via hand-bailing; the table does not account for approximately 200 gallons of free product recovered using the skimmer pump system.

## 8 Conclusions & Recommendations

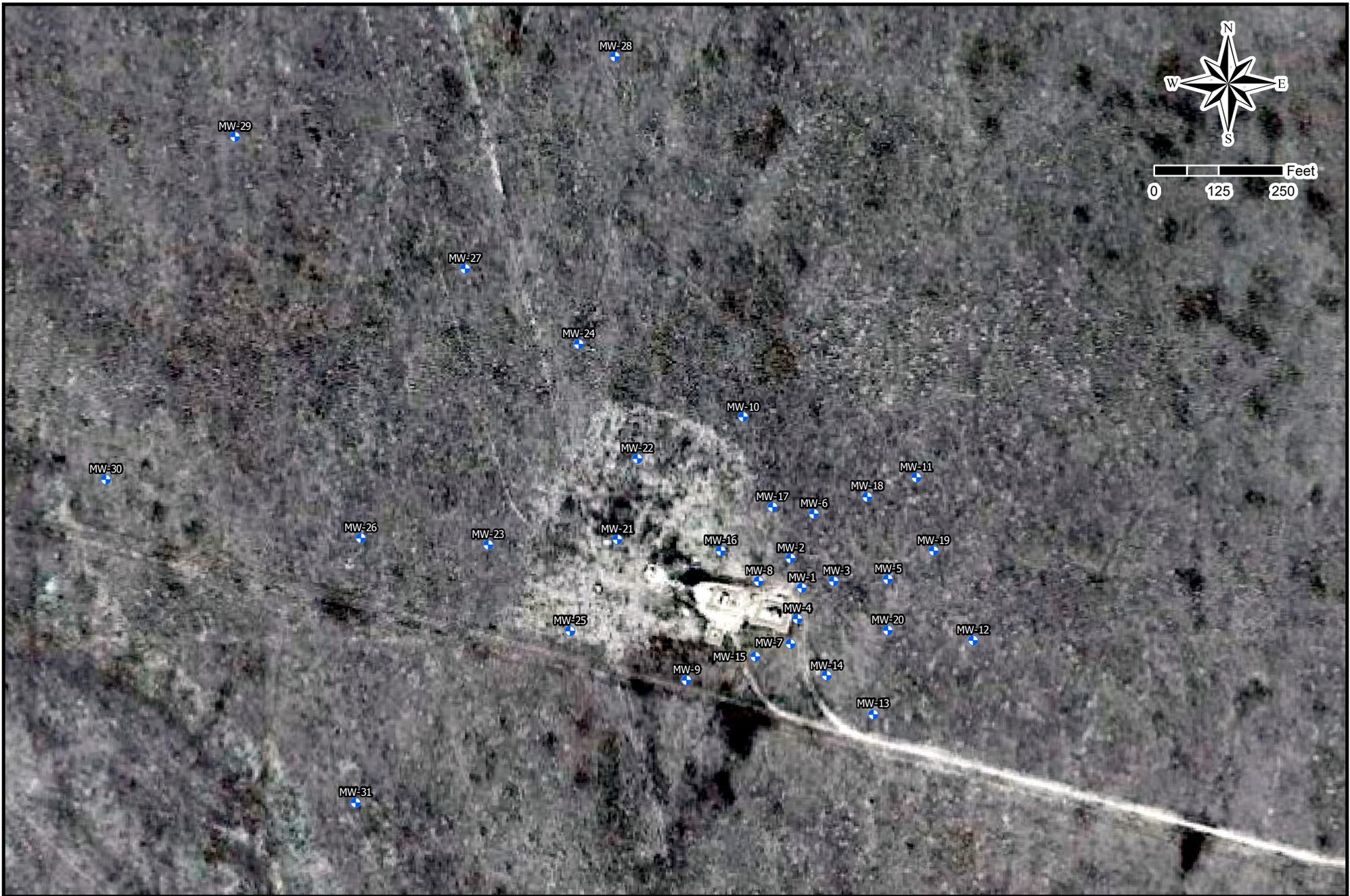
During each of the Quarterly groundwater monitoring events in 2018, Talon personnel collected groundwater samples from the monitoring wells with PSH less than 0.01 feet. The samples were analyzed at Summit for BTEX. Groundwater laboratory analytical results for Benzene ranged from below laboratory detection limits to 12 mg/L (MW-1 4<sup>th</sup> quarter and MW-8 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup>

quarters). Analytical results for Toluene ranged from below laboratory detection limits to 18 mg/L (MW-27, 2<sup>nd</sup> quarter). Analytical results for Ethylbenzene ranged from below laboratory detection limits to 1.8 mg/L (MW-21, 4<sup>th</sup> quarter). Analytical results for total Xylenes ranged from below laboratory detection limits to 8.7 mg/L (MW-27, 2<sup>nd</sup> quarter). PSH was measured in 12 of the 31 monitoring wells ranging from 0.02 ft (MW-2) to 1.48 ft (MW-6).

The skimmer pump system was reinstalled at the site on June 20, 2018 in monitoring wells MW-3, MW-5, MW-7, MW-17, and MW-20. The skimmer pump system was removed on October 31, 2018 for the winter season and will be reinstalled in the spring of 2019. During 2018, approximately 85 gallons of free product have been recovered from the site via hand-bailing, and approximately 200 gallons of free product have been recovered via the skimmer pump system.

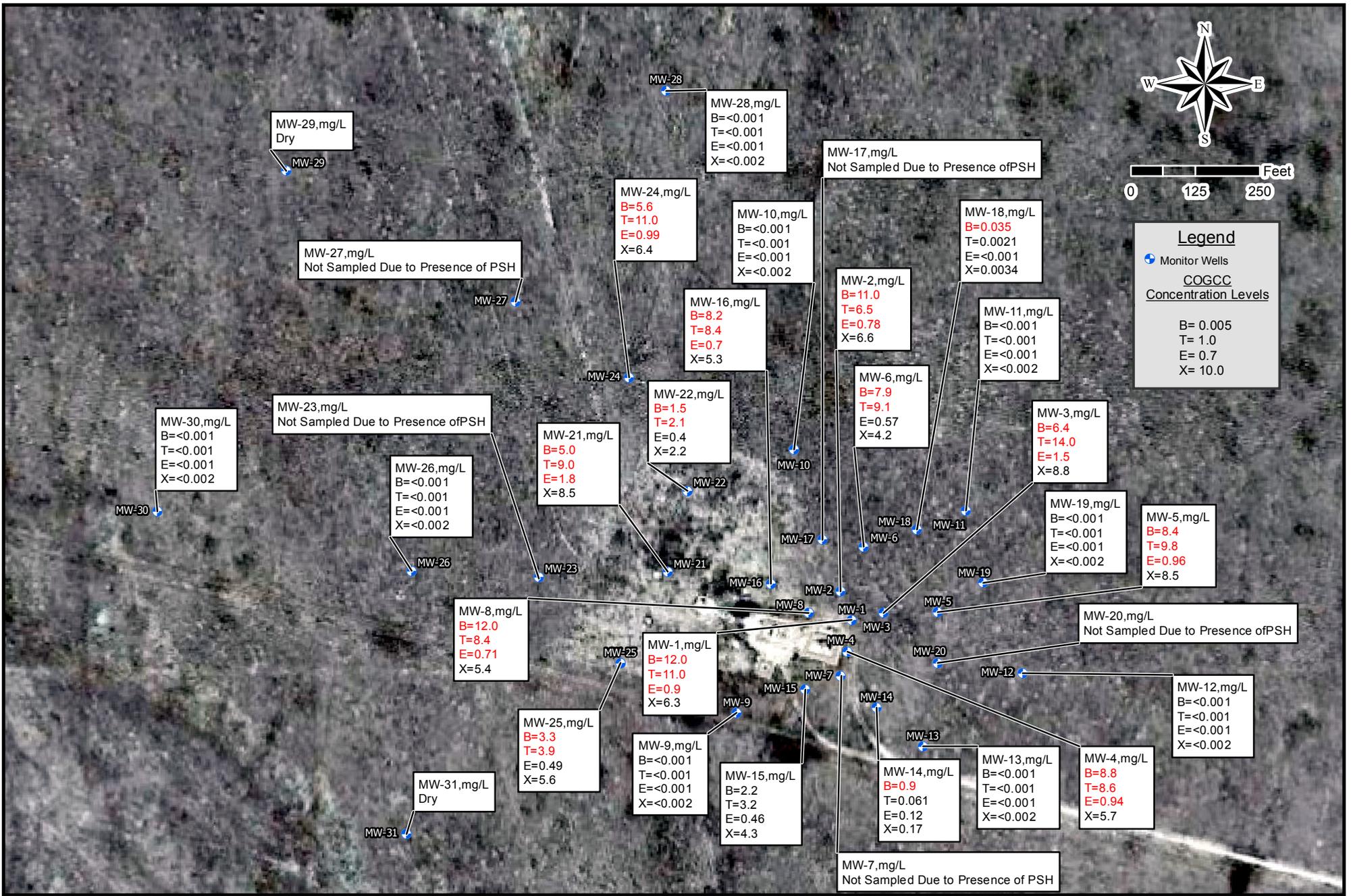
Talon will continue quarterly monitoring and product recovery at the Site. The next groundwater sampling event is anticipated to occur in March 2019.

**Attachment 1**  
**Figures**



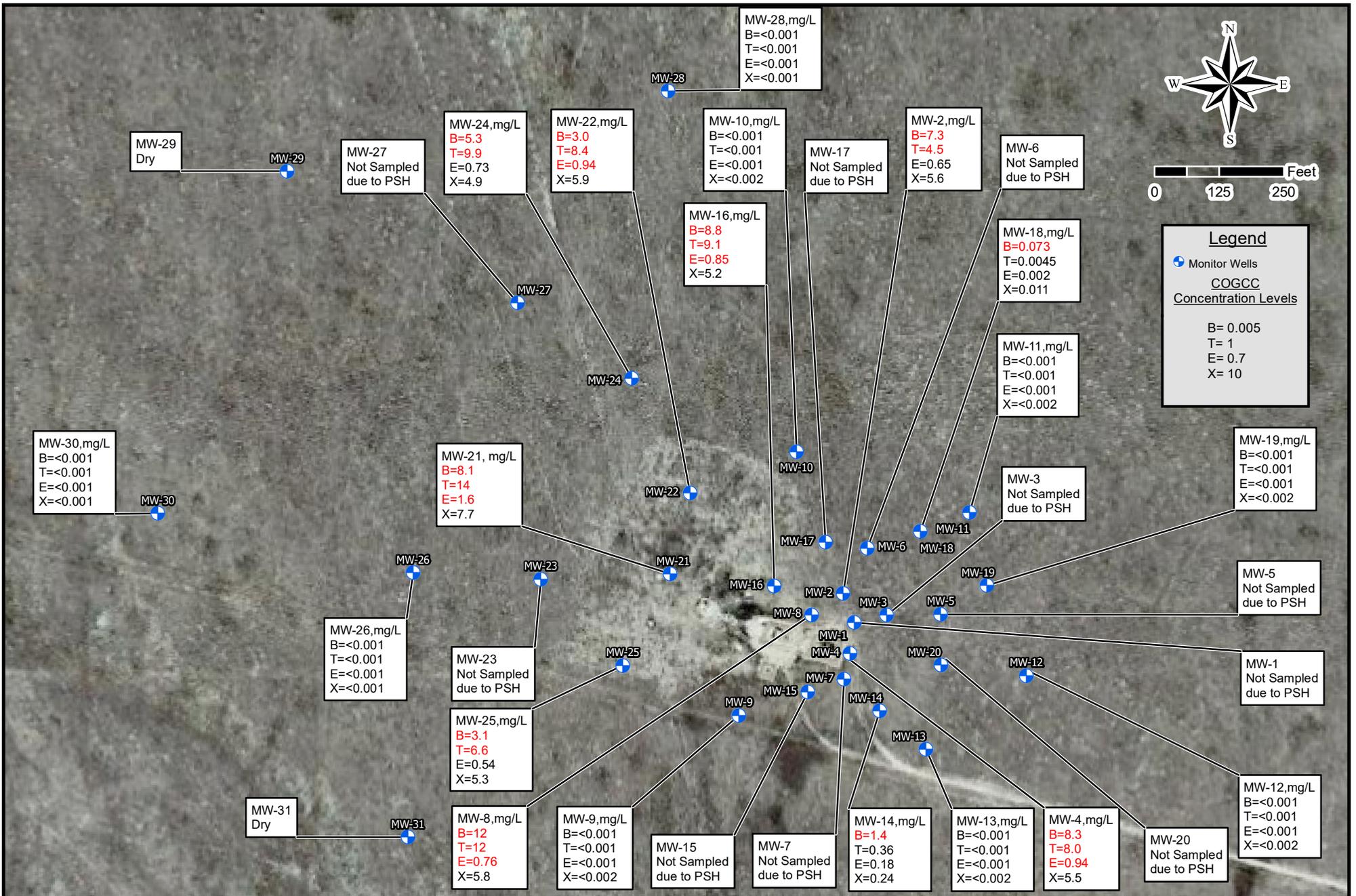
Drafted: 2/28/2019  
1 in = 250 ft  
Drafted By: IJM

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Nelson C-1  
Weld County, Colorado  
Figure F - Site Map



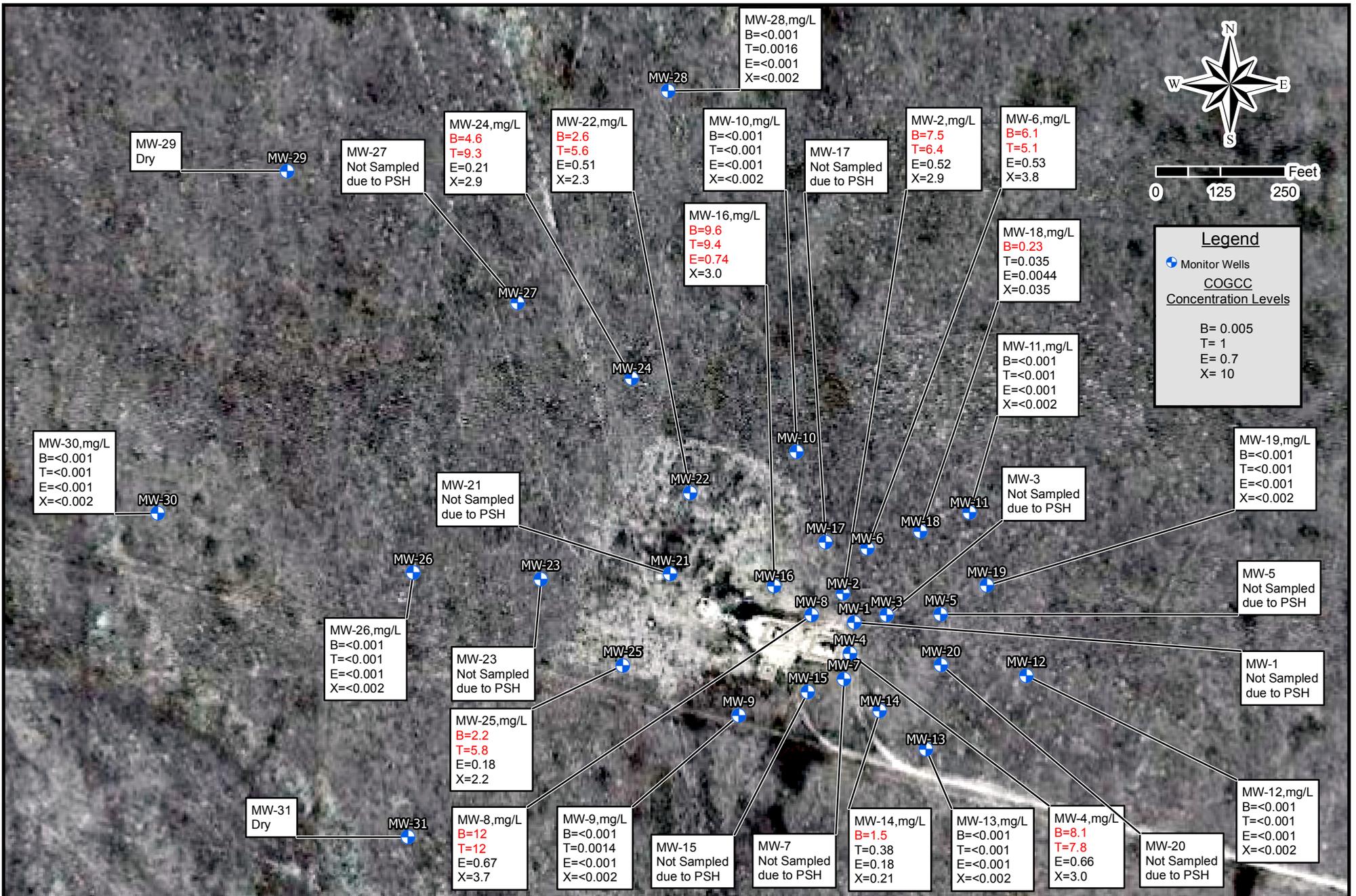
Drafted: 3/1/2019  
 1 in = 250 ft  
 Drafted By: IJM

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 Figure G-1 COGCC Groundwater Concentration Map



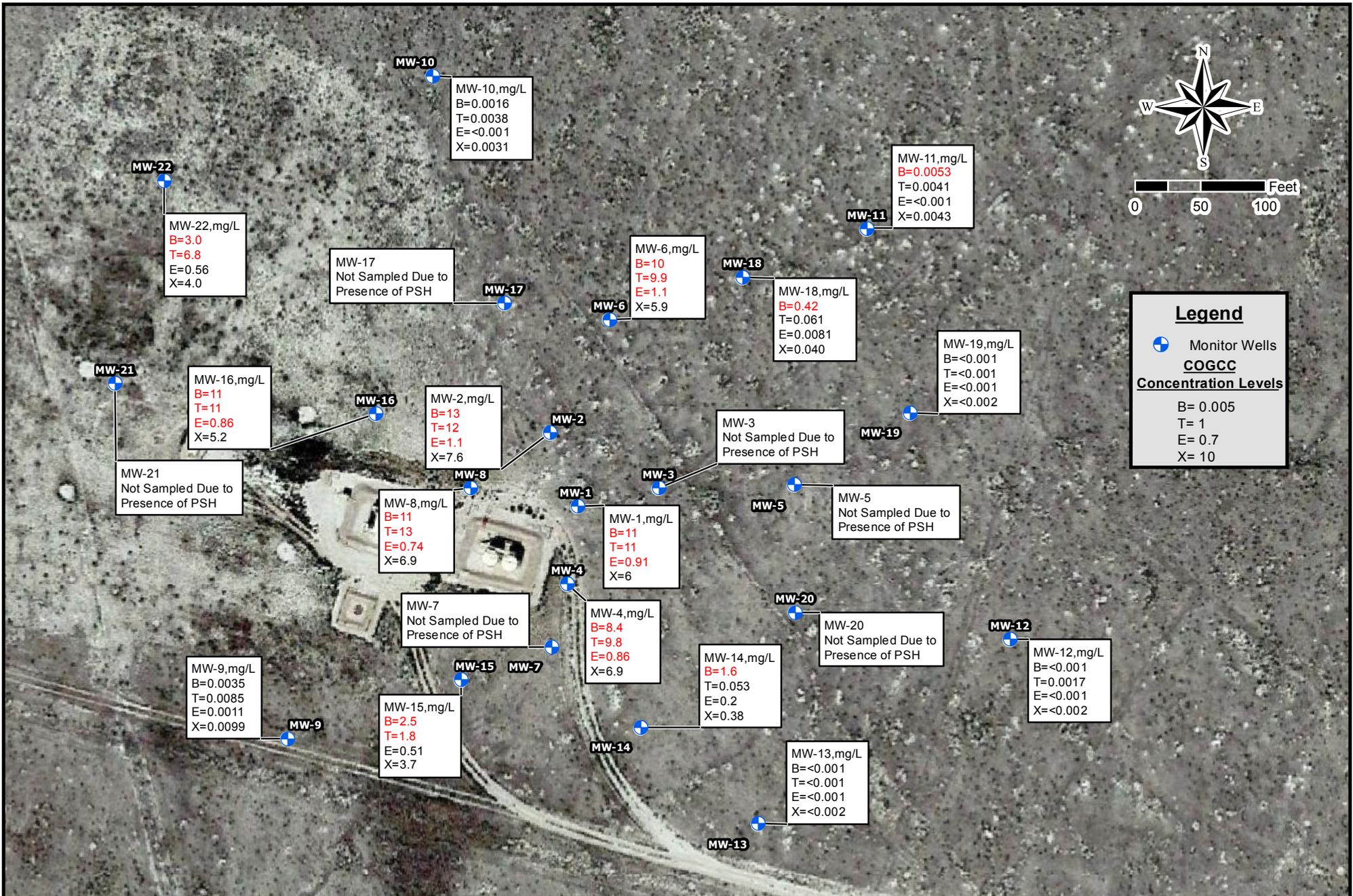
Drafted: 10/29/2018  
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 Drafted By: FOM

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 Figure H- H&A and GW Concentration Map



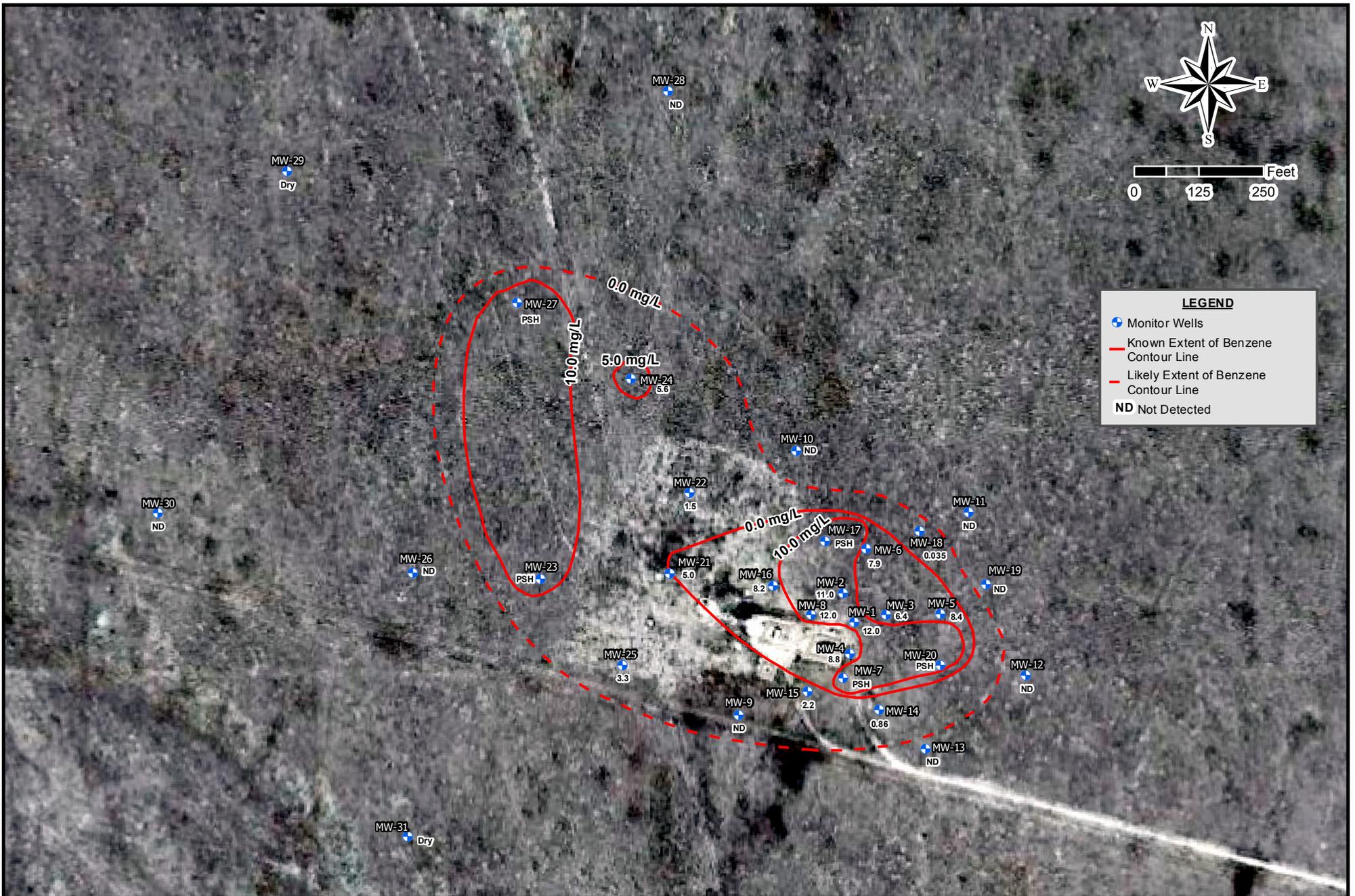
Drafted: 7/9/2018  
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 Drafted By: FOM

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 Weld County, Colorado  
 Figure 4 - 2nd Quarter Groundwater Concentration Map



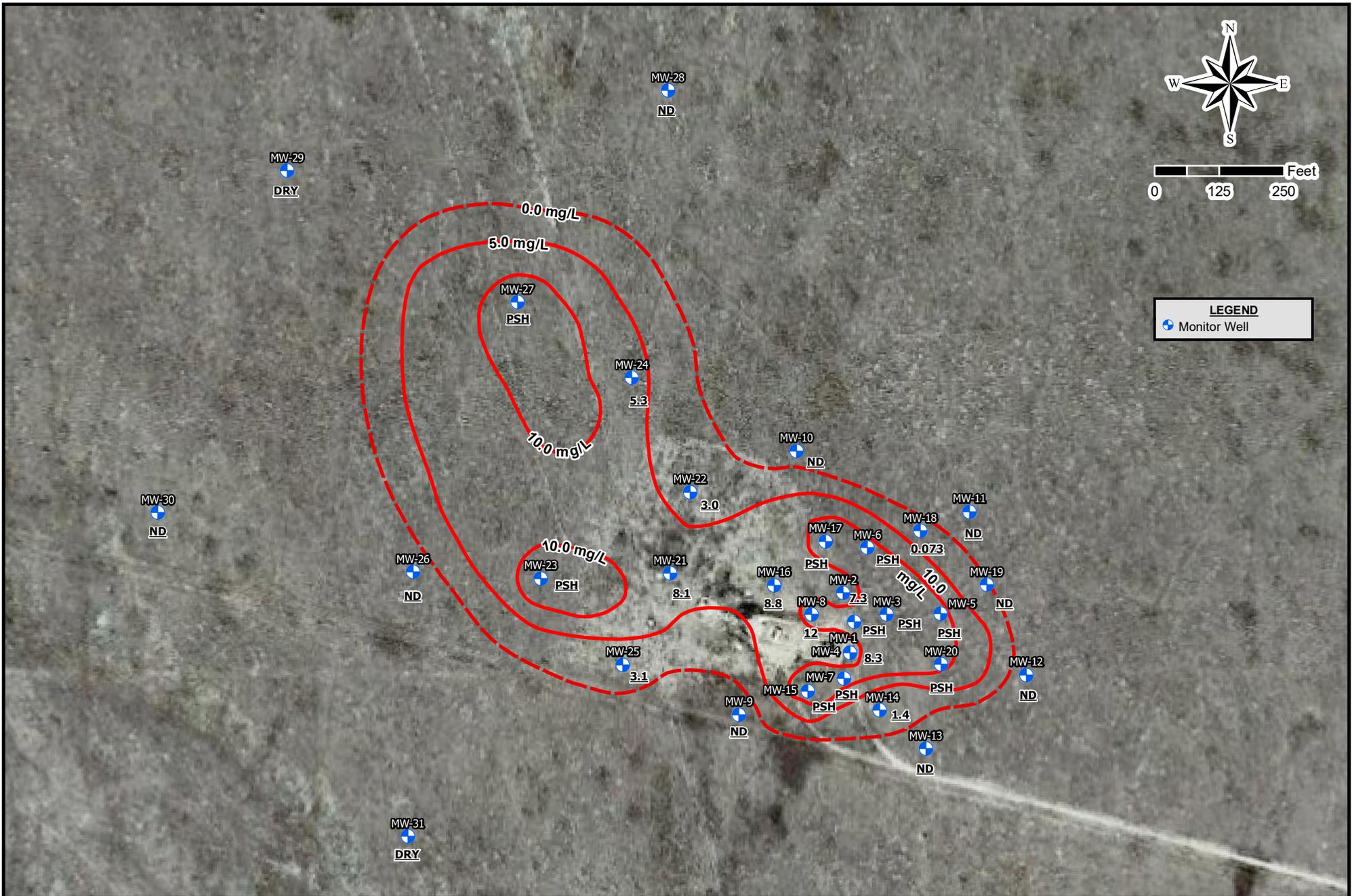
Drafted: 4/4/2018  
 1 in = 100 ft  
 Drafted By: IJM

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 Weld County, Colorado  
 Figure 1 - Groundwater Concentration Map



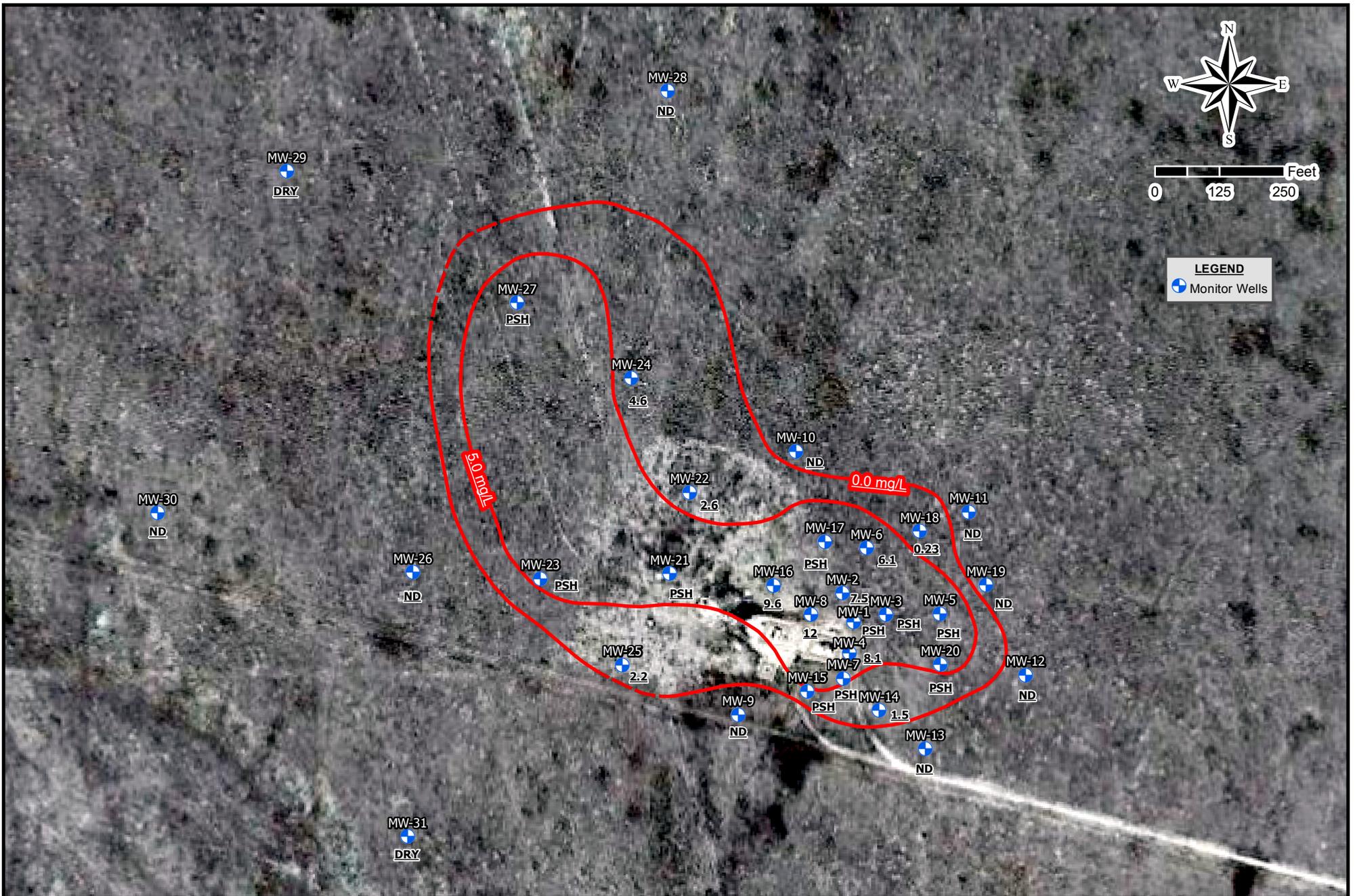
Drafted: 3/1/2019  
 1 in = 250 ft  
 Drafted By: IJM

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 Figure 6 - Isoconcentration Benzene Isoconcentration Map



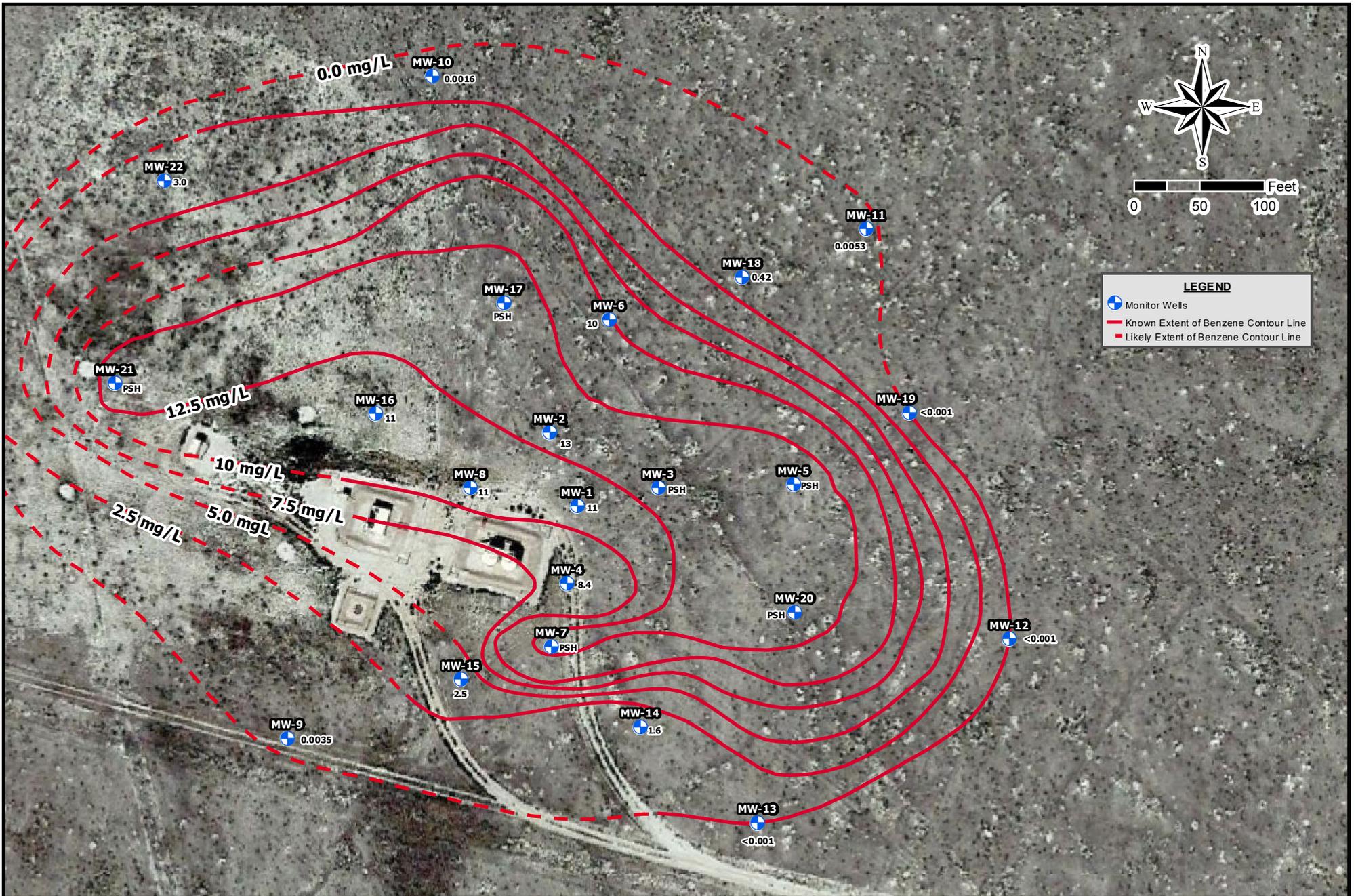
Drafted: 10/30/2018  
 1 inch = 250 feet  
 Drafted By: FOM

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 Weld County, Colorado  
 Figure 7 - H<sub>2</sub>O and Benzene Isoconcentration Map



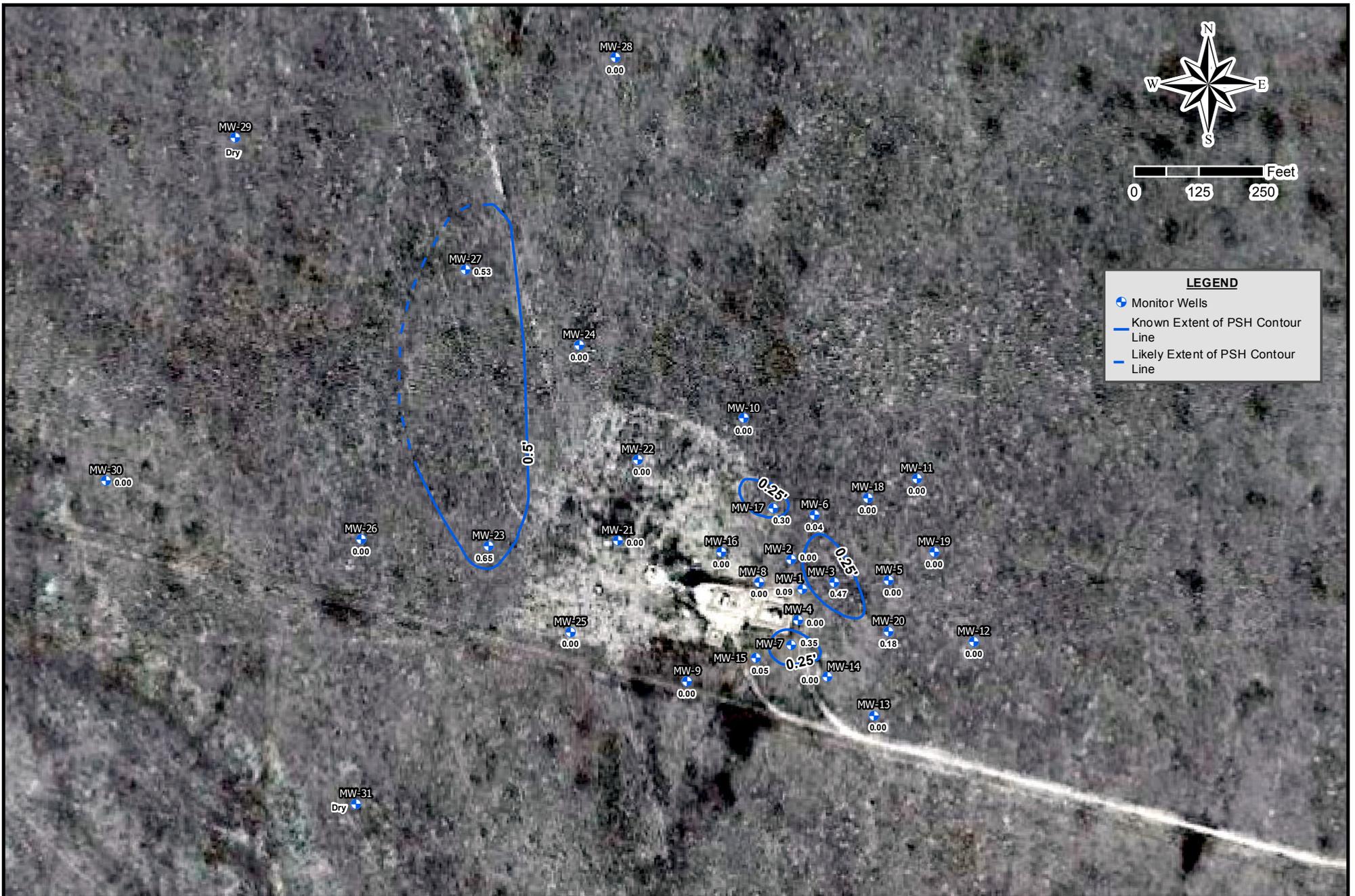
Drafted: 7/9/2018  
 1 in = 250 ft  
 Drafted By: FOM

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 Figure 8 - Benzene Isoconcentration Map



Drafted: 4/4/2018  
 1 in = 100 ft  
 Drafted By: IJM

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 Nelson C-1  
 Weld County, Colorado  
 Figure 9 - Benzene Isoconcentration Map



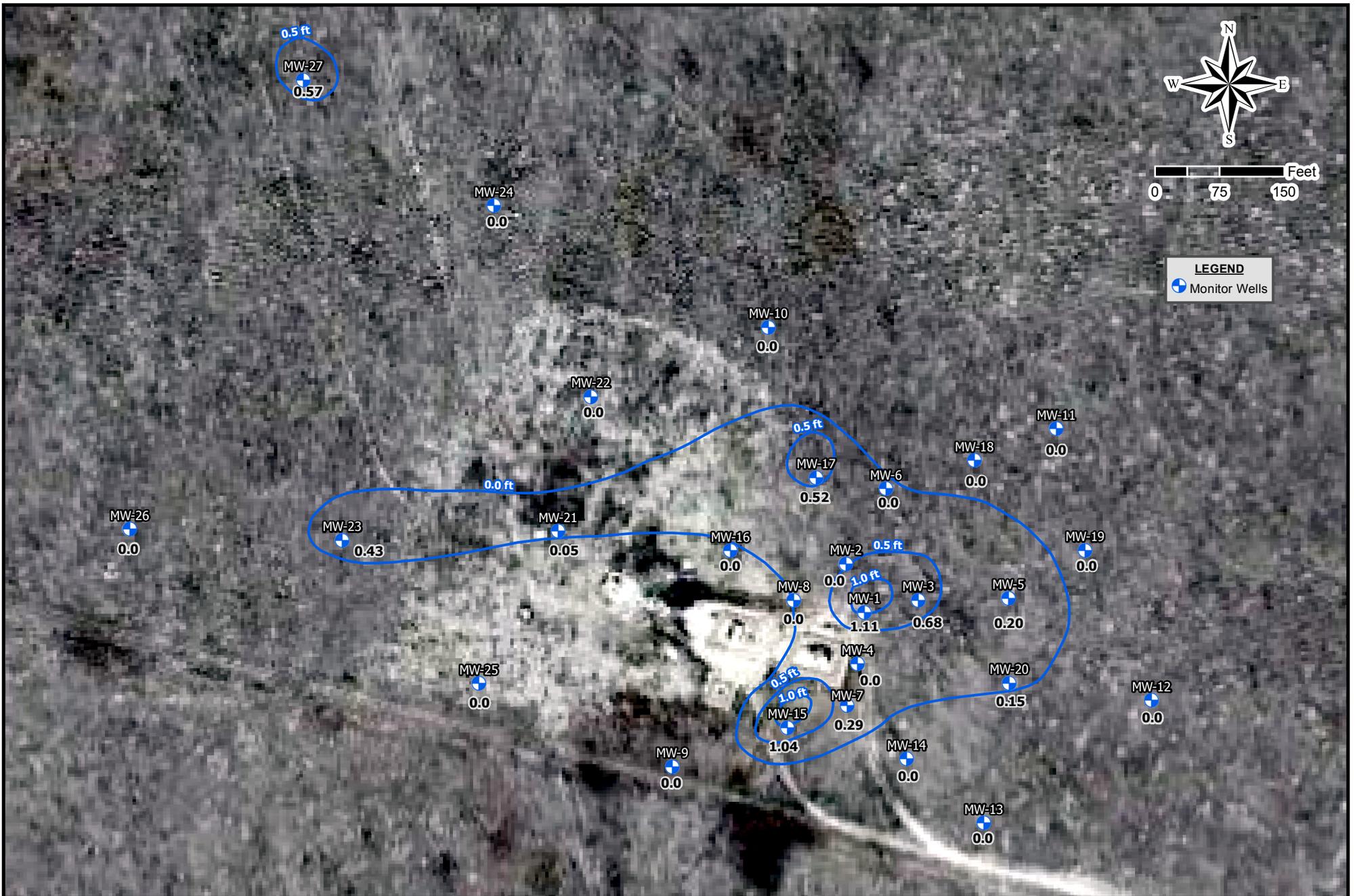
Drafted: 2/28/2019  
 1 in = 250 ft  
 Drafted By: IJM

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 Weld County, Colorado  
 Figure 10 - Location of PSH Thickness Isoconcentration Map



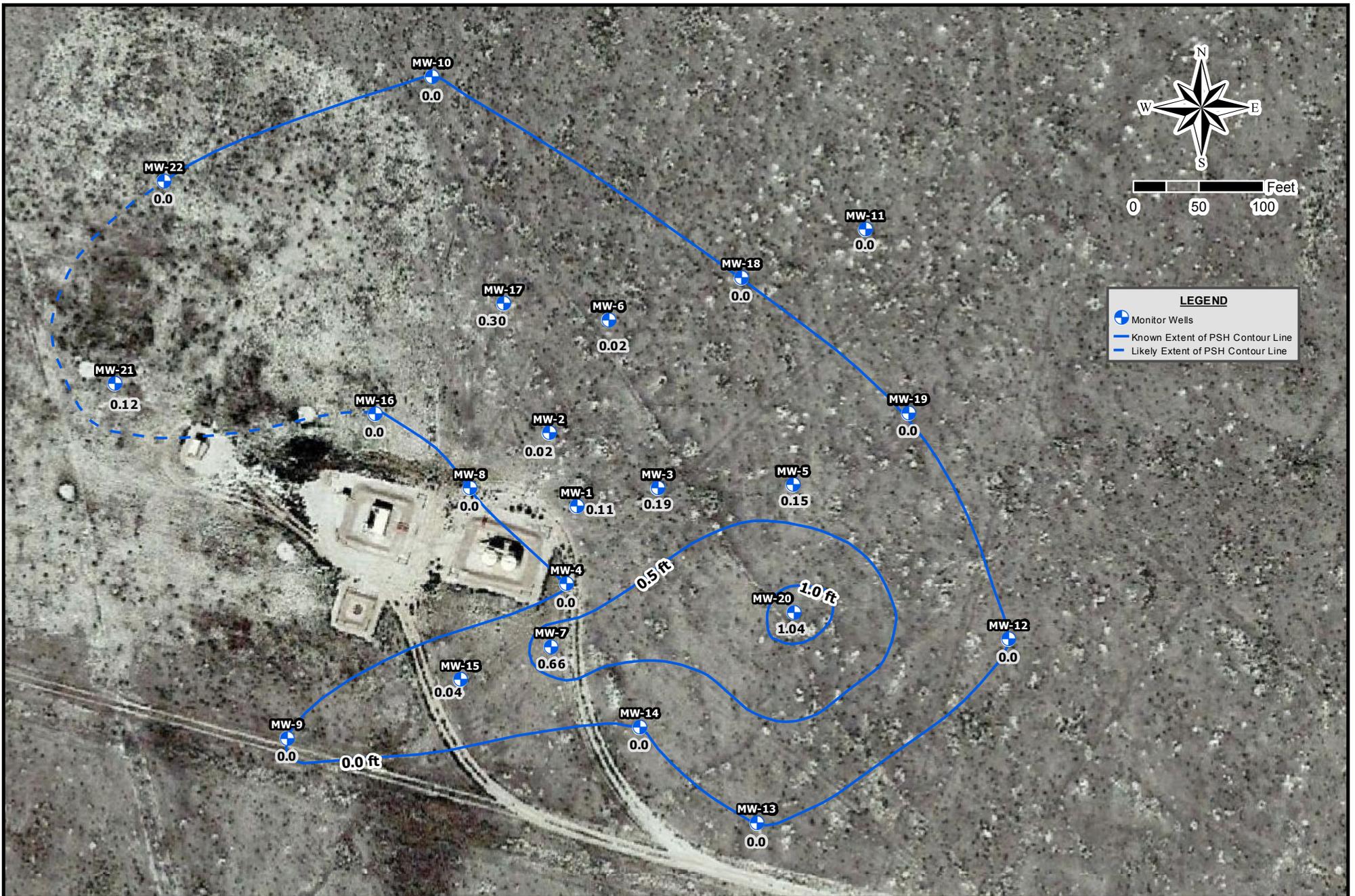
Drafted: 10/30/2018  
 1 inch = 250 feet  
 Drafted By: FOM

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 Nelson C-1  
 Weld County, Colorado  
 Figure 11 - H<sub>2</sub>S and PSH Thickness Isoconcentration Map



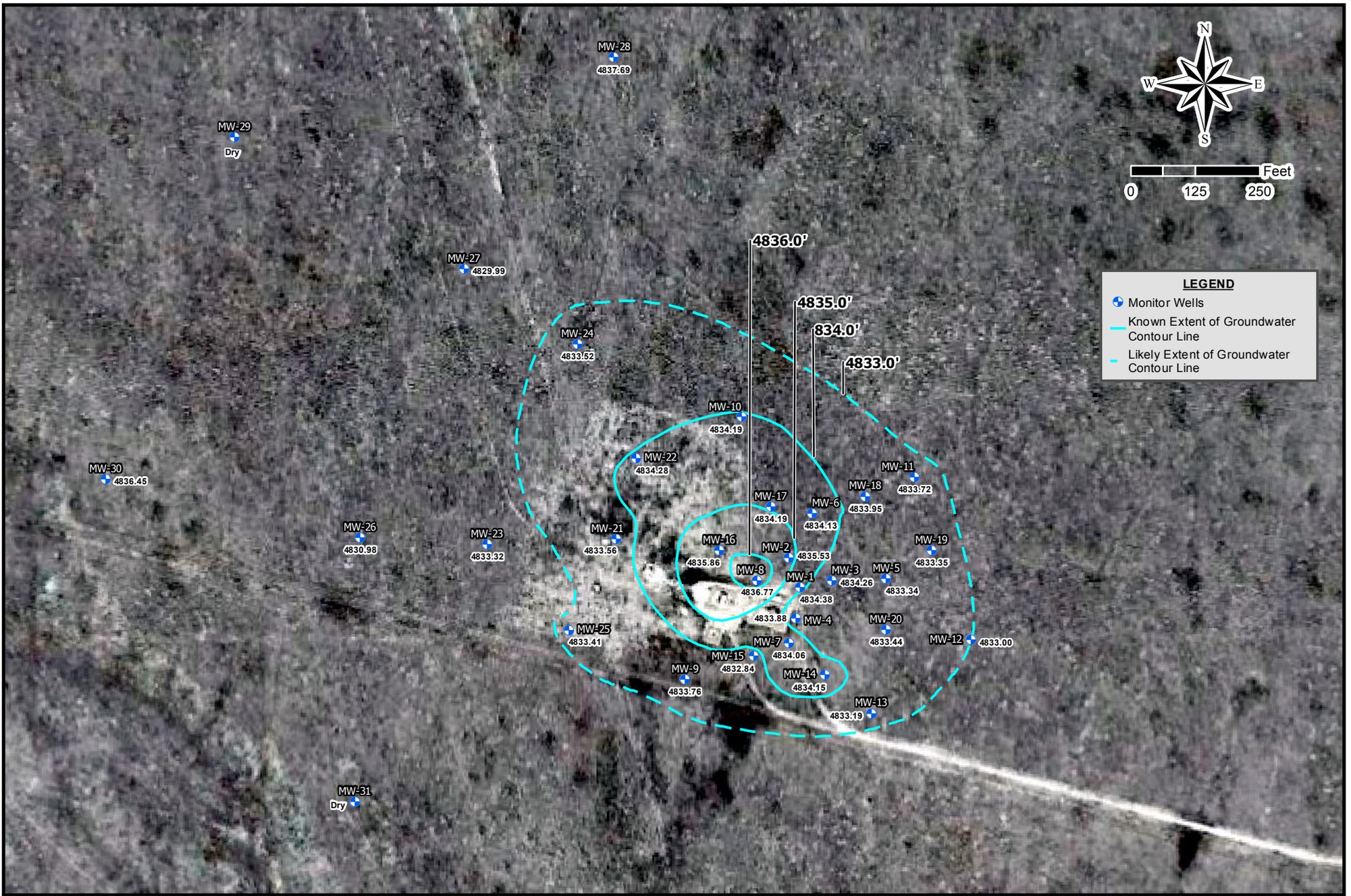
Drafted: 7/9/2018  
 1 in = 150 ft  
 Drafted By: FOM

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 Weld County, Colorado  
 Figure 12 - G & A ~ æ ~ PSH Isoconcentration Map



Drafted: 4/4/2018  
 1 in = 100 ft  
 Drafted By: IJM

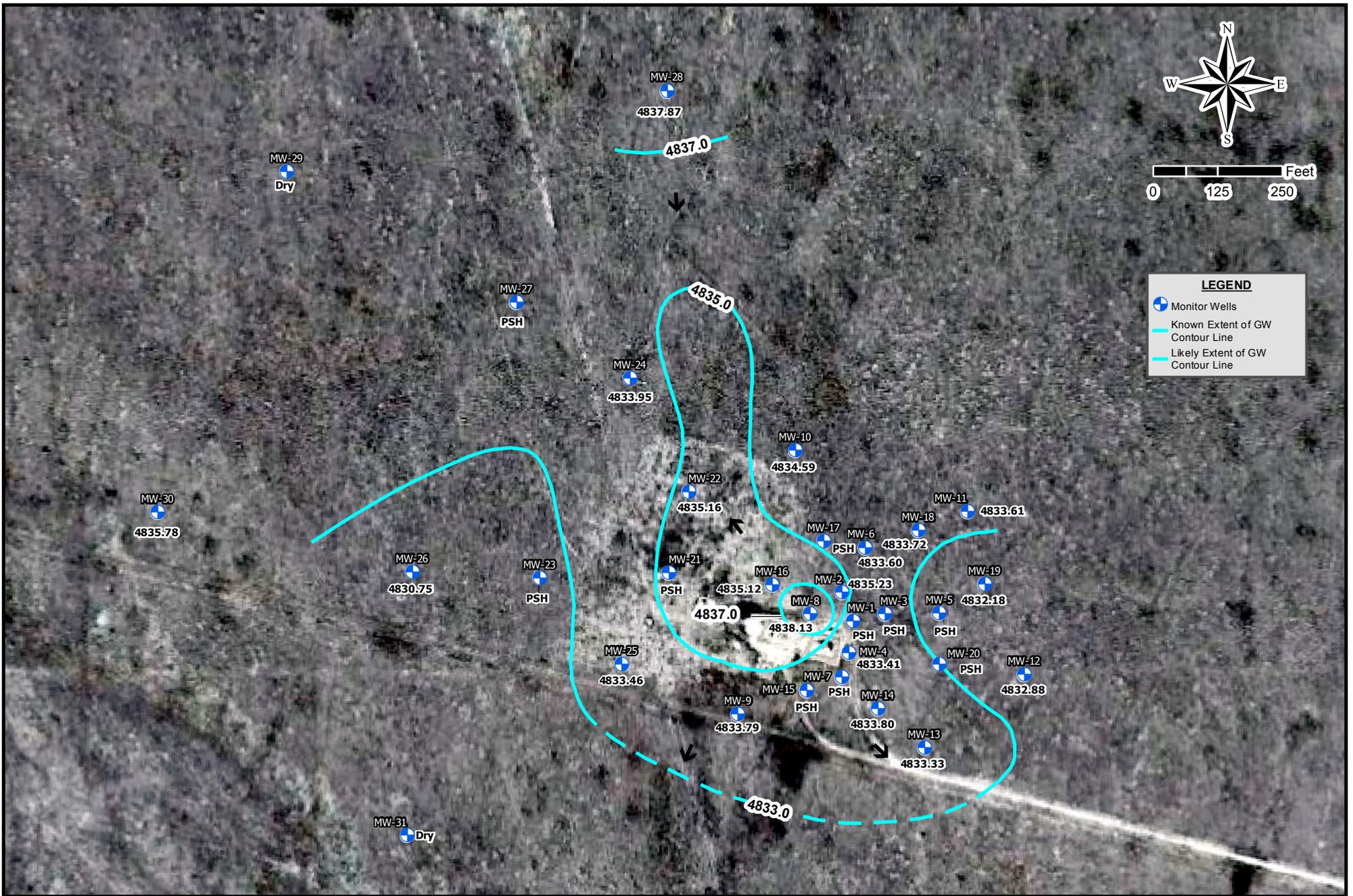
Whiting Oil and Gas Corporation  
 Nelson C-1  
 Weld County, Colorado  
 Figure 13 - F<sub>1</sub> and F<sub>2</sub> PSH Isoconcentration Map



Drafted: 2/28/2019  
 1 in = 250 ft  
 Drafted By: IJM

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 Nelson C-1  
 Weld County, Colorado  
 Figure 14 - ICA and GCA Groundwater Gradient Map





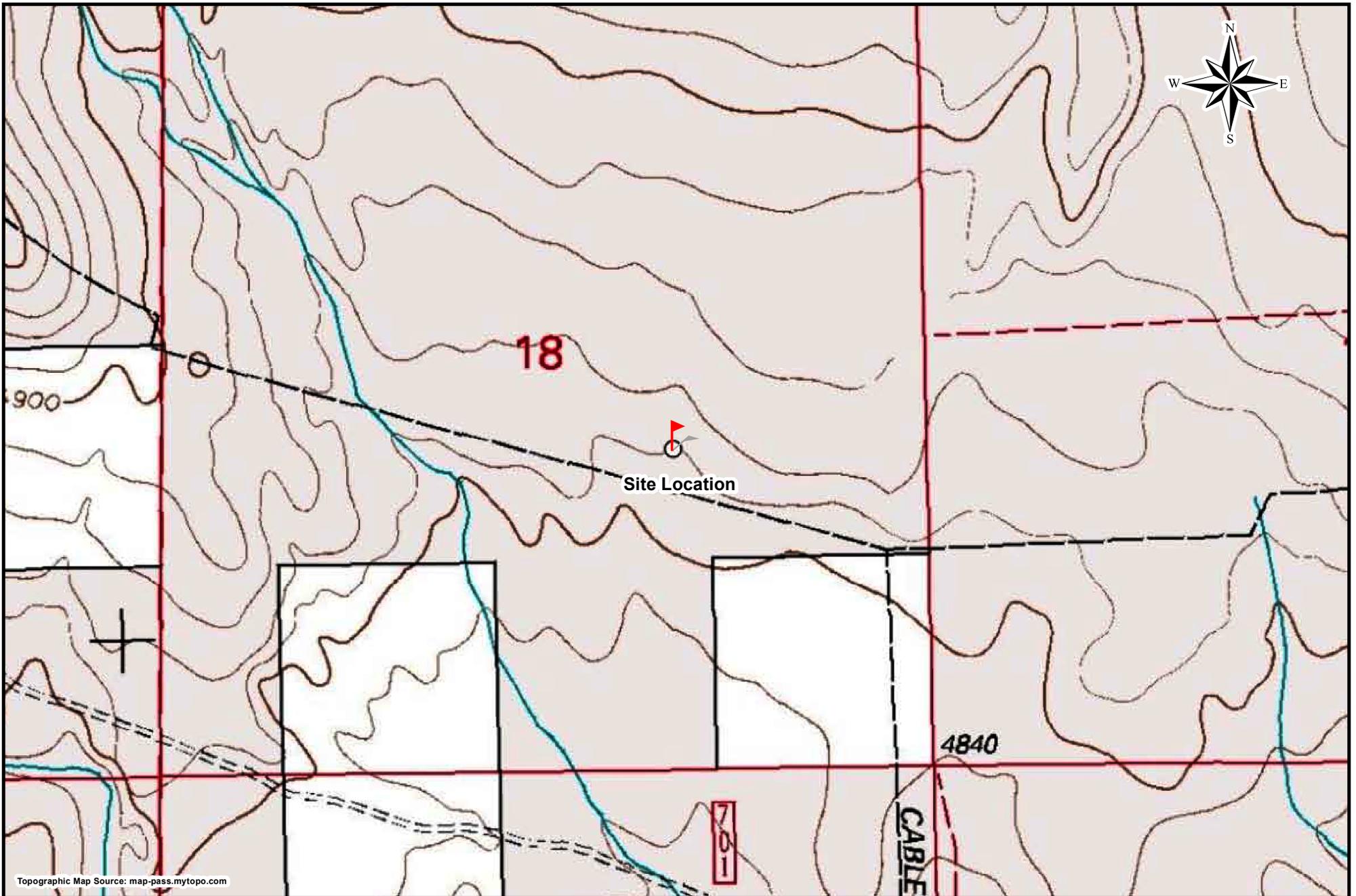
Drafted: 7/24/2018  
 1 in = 250 ft  
 Drafted By: IJM

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 Weld County, Colorado  
 Figure 16 - Groundwater Elevation Contour Map



Drafted: 4/4/2018  
 1 in = 100 ft  
 Drafted By: IJM

Whiting Oil and Gas Corporation  
 Nelson C-1  
 Weld County, Colorado  
 Figure 17 - F001 ac 1 G Groundwater Gradient Map



Topographic Map Source: map-pass.mytopo.com



Drafted: 10/29/2018  
Map Scale 1:10,000  
Drafted By: FOM

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado  
Figure 18 - Topographic Map

**Attachment 2  
Tables**



**Table 1 - Well Information**

**Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado**

Well ID	Latitude	Longitude	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Screen Interval (ft bgs)	Total Depth (ft)
MW-1	40.836402	-103.904669	4862.2	4865.3	19.8-39.8	40.38
MW-2	40.836552	-103.904761	4862.6	4865.8	19-39	39.50
MW-3	40.836453	-103.904461	4863.7	4866.9	19.5-39.5	40.00
MW-4	40.836238	-103.904741	4861.1	4864.0	19.5-39.5	40.00
MW-5	40.836419	-103.904070	4865.7	4868.6	20-40	40.00
MW-6	40.836722	-103.904466	4864.7	4867.6	20-45	45.00
MW-7	40.836089	-103.904824	4860.2	4863.2	20-40	40.00
MW-8	40.836469	-103.904957	4861.6	4864.8	20-40	40.00
MW-9	40.835925	-103.905525	4858.5	4861.4	17-32	35.00
MW-10	40.837318	-103.905089	4865.4	4868.3	19-39	39.00
MW-11	40.836977	-103.903889	4869.5	4872.2	19-44	44.00
MW-12	40.836108	-103.903509	4867.7	4870.6	18-38	38.00
MW-13	40.835729	-103.904222	4862.3	4864.9	20-40	40.00
MW-14	40.835936	-103.904540	4861.2	4864.3	20-40	40.00
MW-15	40.836043	-103.905063	4859.4	4861.9	19-34	34.00
MW-16	40.836609	-103.905264	4861.1	4863.9	19-39	39.00
MW-17	40.836837	-103.904898	4863.7	4866.5	19-44	44.00
MW-18	40.836881	-103.904235	4866.5	4869.2	19-44	44.00
MW-19	40.836590	-103.903776	4868.0	4870.8	19-39	39.00
MW-20	40.836173	-103.904105	4865.0	4867.5	19-39	39.00
MW-21	40.836681	-103.905988	4860.8	4863.8	20-40	40.15
MW-22	40.837108	-103.905839	4863.6	4866.7	20-40	39.68
MW-23	40.836655	-103.906884	4863.8	4866.9	14-34	34.00
MW-24	40.837700	-103.906245	4867.4	4870.5	14-44	44.00
MW-25	40.836214	-103.906318	4859.3	4862.3	14-29	29.00
MW-26	40.836693	-103.907788	4863.7	4866.8	14-34	34.00
MW-27	40.838124	-103.906993	4869.0	4872.1	24-44	44.00
MW-28	40.839217	-103.905930	4875.4	4878.2	35-55	55.00
MW-29	40.838818	-103.908562	4869.9	4872.8	30-45	45.00
MW-30	40.837023	-103.909533	4866.0	4868.9	25-35	35.00
MW-31	40.835311	-103.908502	4855.2	4858.2	20-30	30.00

TOC - Top of Casing  
ft bgs - Feet Below Ground Surface  
ft amsl - Feet Above Mean Sea Level  
Updated July 2018



Table 2 - Groundwater Analytical Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>COGCC Table 910-1 Concentration Levels</b>			<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>
MW-1	1511065-2	11/04/15	17	18	1	5.4
	1602138-01	02/17/16	15	13	0.99	5.5
	1606205-01	06/21/16	17	16	1.1	6.4
	1609096-01	09/16/16	19	16	1.1	6.5
	1612127-01	12/16/16	28	38	2.5	12
	1703157-01	03/17/17	12	10	0.95	5.9
	1706184-01	06/16/17	11	12	0.97	6.2
	1709144-11	09/15/17	13	11	0.82	5.7
	1712267-01	12/20/17	12	11	0.93	5.8
	1803216-01	03/16/18	11	11	0.91	6
	NS	06/12/18	Not Sampled Due to Presence of PSH			
NS	09/11/18	Not Sampled Due to Presence of PSH				
1812329-01	12/27/18	12	11	0.9	6.3	
MW-1 (Duplicate)	1706184-15	06/16/17	11	11	0.93	5.7
MW-2	1511065-3	11/04/15	18	20	0.96	5
	1602138-02	02/17/16	16	14	1.4	8.2
	1606205-02	06/21/16	18	16	1	6.1
	1609096-02	09/16/16	26	25	1.2	7.1
	1612127-02	12/16/16	16	16	1.1	6.8
	NS	03/17/17	Not Sampled Due to Presence of PSH			
	1706184-02	06/16/17	13	15	1	6.1
	1709144-10	09/15/17	14	16	0.41	6.2
	1712267-02	12/20/17	14	16	1.2	7.3
	1803216-02	03/16/18	13	12	1.1	7.6
	1806151-01	06/12/18	7.5	6.4	0.52	2.9
	1809155-01	09/11/18	7.3	4.5	0.65	5.6
1812329-02	12/27/18	11	6.5	0.78	6.6	
MW-3	NS	11/04/15	Not Sampled Due to Presence of PSH			
	NS	02/17/16	Not Sampled Due to Presence of PSH			
	NS	06/21/16	Not Sampled Due to Presence of PSH			
	NS	09/16/16	Not Sampled Due to Presence of PSH			
	NS	12/16/16	Not Sampled Due to Presence of PSH			
	NS	03/17/17	Not Sampled Due to Presence of PSH			
	NS	06/16/17	Not Sampled Due to Presence of PSH			
	NS	09/15/17	Not Sampled Due to Presence of PSH			
	NS	12/20/17	Not Sampled Due to Presence of PSH			
	NS	03/16/18	Not Sampled Due to Presence of PSH			
	NS	06/12/18	Not Sampled Due to Presence of PSH			
NS	09/11/18	Not Sampled Due to Presence of PSH				
1812346-01	12/28/18	6.4	14	1.5	8.8	
MW-4	1511065-1	11/04/15	16	20	0.94	4.8
	1602138-03	02/17/16	13	15	0.91	5.5
	1606205-03	06/21/16	12	16	0.99	6
	1609096-03	09/16/16	12	18	0.99	6.7
	1612127-03	12/16/16	14	19	1.1	7.2
	1703157-02	03/17/17	9.5	9.5	0.73	4.5
	1706184-03	06/16/17	11	13	0.82	5.8
	1710041-01	10/03/17	7.7	7.9	0.73	4.9
	1712267-03	12/20/17	7.5	8.4	0.71	5.1
	1803216-03	03/16/18	8.4	9.8	0.86	6.9
	1806151-02	06/12/18	8.1	7.8	0.66	3.0
	1809155-02	09/11/18	8.3	8	0.94	5.5
	1812346-02	12/28/18	8.8	8.6	0.94	5.7
MW-4 (Duplicate)	1712267-16	12/20/17	9.9	10	0.86	6.2



Table 2 - Groundwater Analytical Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, 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-5	NS	02/17/16	Not Sampled Due to Presence of PSH				
	NS	06/21/16	Not Sampled Due to Presence of PSH				
	NS	09/16/16	Not Sampled Due to Presence of PSH				
	NS	12/16/16	Not Sampled Due to Presence of PSH				
	NS	03/17/17	Not Sampled Due to Presence of PSH				
	NS	06/16/17	Not Sampled Due to Presence of PSH				
	NS	09/15/17	Not Sampled Due to Presence of PSH				
	NS	12/20/17	Not Sampled Due to Presence of PSH				
	NS	03/16/18	Not Sampled Due to Presence of PSH				
	NS	06/12/18	Not Sampled Due to Presence of PSH				
NS	09/11/18	Not Sampled Due to Presence of PSH					
	1812329-03	12/27/18	8.4	9.8	0.96	8.5	
MW-6	NS	02/17/16	Not Sampled Due to Presence of PSH				
	NS	06/21/16	Not Sampled Due to Presence of PSH				
	NS	09/16/16	Not Sampled Due to Presence of PSH				
	NS	12/16/16	Not Sampled Due to Presence of PSH				
	NS	03/17/17	Not Sampled Due to Presence of PSH				
	NS	06/16/17	Not Sampled Due to Presence of PSH				
	NS	09/15/17	Not Sampled Due to Presence of PSH				
	NS	12/20/17	Not Sampled Due to Presence of PSH				
		1803216-04	03/16/18	10	9.9	1.1	5.9
		1806151-03	06/12/18	6.1	5.1	0.53	3.8
NS	09/11/18	Not Sampled Due to Presence of PSH					
	1812329-04	12/27/18	7.9	9.1	0.57	4.2	
MW-7	NS	03/16/18	Not Sampled Due to Presence of PSH				
	NS	06/12/18	Not Sampled Due to Presence of PSH				
	NS	09/11/18	Not Sampled Due to Presence of PSH				
	NS	12/28/18	Not Sampled Due to Presence of PSH				
MW-8		1602138-04	02/17/16	12	13	1	5.3
		1606205-04	06/21/16	17	17	1.1	6.4
		1609096-04	09/16/16	20	20	0.85	7.1
		1612127-04	12/16/16	17	17	0.82	6.1
		1703157-03	03/17/17	13	14	0.89	6.6
		1706184-04	06/16/17	9.6	14	0.97	6.2
		1709144-09	09/15/17	13	9.4	0.018	5
		1712267-04	12/20/17	14	14	0.62	5.4
		1803216-05	03/16/18	11	13	0.74	6.9
		1806151-04	06/12/18	12	12	0.67	3.7
		1809155-03	09/11/18	12	12	0.76	5.8
	1812329-05	12/27/18	12	8.4	0.71	5.4	
MW-9		1603161-01	03/22/16	<0.001	0.0016	<0.001	0.0039
		1606205-05	06/21/16	<0.001	<0.001	<0.001	<0.001
		1609096-05	09/16/16	<0.001	<0.001	<0.001	<0.001
		1612127-05	12/16/16	<0.001	<0.001	<0.001	<0.001
		1703157-04	03/17/17	<0.001	<0.001	<0.001	<0.001
		1706184-05	06/16/17	<0.001	<0.001	<0.001	<0.001
		1709144-08	09/15/17	<0.001	<0.001	<0.001	<0.002
		1712267-05	12/20/17	<0.001	<0.001	<0.001	<0.002
		1803216-06	03/16/18	0.0035	0.0085	0.0011	0.0099
		1806151-05	06/12/18	<0.001	0.0014	<0.001	<0.002
		1809155-04	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-06	12/27/18	<0.001	<0.001	<0.001	<0.002	
MW-10		1803216-07	03/16/18	0.0016	0.0038	<0.001	0.0031
		1806151-06	06/12/18	<0.001	<0.001	<0.001	<0.002
		1809155-05	09/11/18	<0.001	<0.001	<0.001	<0.002
		1812346-03	12/28/18	<0.001	<0.001	<0.001	<0.002



Table 2 - Groundwater Analytical Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>COGCC Table 910-1 Concentration Levels</b>			<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>
MW-11	1603161-02	03/22/16	0.0016	0.0011	<0.001	<0.001
	1606205-07	06/21/16	<0.001	<0.001	<0.001	<0.001
	1609096-07	09/16/16	0.0078	0.0049	<0.001	<0.001
	1612127-07	12/16/16	0.0023	0.002	<0.001	<0.001
	1703157-06	03/17/17	0.0027	0.0037	<0.001	0.005
	1706184-07	06/16/17	<0.001	<0.001	<0.001	<0.001
	1709144-06	09/15/17	<0.001	<0.001	<0.001	<0.002
	1712267-07	12/20/17	<0.001	<0.001	<0.001	<0.002
	1803216-08	03/16/18	0.0053	0.0041	<0.001	0.0043
	1806151-07	06/12/18	<0.001	<0.001	<0.001	<0.002
MW-11 (Duplicate)	1809155-06	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-07	12/27/18	<0.001	<0.001	<0.001	<0.002
	1806151-20	06/12/18	<0.001	<0.001	<0.001	<0.002
MW-12	1809155-20	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-10	12/27/18	<0.001	<0.001	<0.001	<0.002
	NS	03/22/16	Dry - No Sample Collected			
	1606205-08	06/21/16	<0.001	<0.001	<0.001	<0.001
	1609096-08	09/16/16	<0.001	<0.001	<0.001	<0.001
	1612127-08	12/16/16	<0.001	<0.001	<0.001	<0.001
	1703157-07	03/17/17	<0.001	<0.001	<0.001	<0.001
	1706184-08	06/16/17	<0.001	<0.001	<0.001	<0.001
	1709144-05	09/15/17	<0.001	<0.001	<0.001	<0.002
	1712267-08	12/20/17	<0.001	<0.001	<0.001	<0.002
MW-13	1803216-09	03/16/18	<0.001	0.0017	<0.001	<0.002
	1806151-08	06/12/18	<0.001	<0.001	<0.001	<0.002
	1809155-07	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-08	12/27/18	<0.001	<0.001	<0.001	<0.002
	1603161-03	03/22/16	<0.001	0.0013	<0.001	<0.001
	1606205-09	06/21/16	<0.001	<0.001	<0.001	<0.001
	1609096-09	09/16/16	<0.001	<0.001	<0.001	<0.001
	1612127-09	12/16/16	<0.001	<0.001	<0.001	<0.001
	1703157-08	03/17/17	<0.001	<0.001	<0.001	<0.001
	1706184-09	06/16/17	<0.001	<0.001	<0.001	<0.001
MW-14	1709144-04	09/15/17	<0.001	<0.001	<0.001	<0.002
	1712267-09	12/20/17	<0.001	<0.001	<0.001	<0.002
	1803216-10	03/16/18	<0.001	<0.001	<0.001	<0.002
	1806151-09	06/12/18	<0.001	<0.001	<0.001	<0.002
	1809155-08	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-09	12/27/18	<0.001	<0.001	<0.001	<0.002
	1603161-04	03/22/16	2.5	2.3	0.48	1.3
	1606205-10	06/21/16	2.4	2.2	0.39	1.3
	1609096-10	09/16/16	3.4	2.2	0.44	1.5
	1612127-10	12/16/16	12	5.4	0.64	4
1703157-09	03/17/17	2.5	1.1	0.44	1.4	
1706184-10	06/16/17	2.1	0.7	0.28	0.89	
1709144-03	09/15/17	1.9	0.29	0.27	0.62	
1712267-10	12/20/17	2.2	0.19	0.31	0.58	
1803216-11	03/16/18	1.6	0.053	0.2	0.38	
1806151-10	06/12/18	1.5	0.38	0.18	0.21	
1809155-09	09/11/18	1.4	0.036	0.18	0.24	
1812346-04	12/28/18	0.9	0.061	0.12	0.17	
MW-14 (Duplicate)	1806151-21	06/12/18	1.1	0.43	0.17	0.21
	1809155-21	09/11/18	0.5	0.028	0.15	0.19
	1812346-12	12/28/18	0.8	0.064	0.14	0.21



Table 2 - Groundwater Analytical Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Sample ID	Lab ID	Date	Concentration (mg/L)				
			Benzene	Toluene	Ethyl-Benzene	Xylenes	
<b>COGCC Table 910-1 Concentration Levels</b>			<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>	
MW-15	1603161-05	03/22/16	4.3	6.4	0.42	3.5	
	1606205-11	06/21/16	6.5	5.2	0.59	3.6	
	1609096-11	09/16/16	6	3.2	0.63	3.6	
	1612127-11	12/16/16	17	18	1.1	6.4	
	1703157-10	03/17/17	3.8	1	0.35	1.8	
	1706184-11	06/16/17	4.4	1.1	0.52	2.8	
	1709144-02	09/15/17	3.8	1.3	0.0029	3.1	
	1712267-11	12/20/17	3.4	2.7	0.6	3.9	
	1803216-12	03/16/18	2.5	1.8	0.51	3.7	
	NS	06/12/18	Not Sampled Due to Presence of PSH				
	NS	09/11/18	Not Sampled Due to Presence of PSH				
MW-15 (Duplicate)	1812346-05	12/28/18	2.2	3.2	0.46	4.3	
	1803216-17	03/16/18	2.7	2.2	0.57	4.2	
MW-16	1603161-06	03/22/16	14	16	0.68	6.1	
	1606205-12	06/21/16	16	16	1.1	6.7	
	1609096-12	09/16/16	18	18	1.3	7.3	
	1612127-12	12/16/16	18	20	1.2	7.2	
	1703157-11	03/17/17	12	13	1.1	6.4	
	1706184-12	06/16/17	11	13	1.5	8.4	
	1709144-01	09/15/17	10	12	0.76	5.9	
	1712267-12	12/20/17	10	11	0.9	5.7	
	1803216-13	03/16/18	11	11	0.86	5.2	
	1806151-11	06/12/18	9.6	9.4	0.74	3	
	1809155-10	09/11/18	8.8	9.1	0.85	5.2	
	1812346-06	12/28/18	8.2	8.4	0.7	5.3	
MW-16 (Duplicate)	1703157-14	03/17/17	12	13	1.1	6.2	
	1806151-22	06/12/18	8.3	8.3	0.66	2.7	
	1809155-22	09/11/18	9.5	11	0.73	5.1	
	1812346-13	12/28/18	9.5	9.3	0.74	5.2	
MW-17	NS	03/22/16	Not Sampled Due to Presence of PSH				
	NS	06/21/16	Not Sampled Due to Presence of PSH				
	NS	09/16/16	Not Sampled Due to Presence of PSH				
	NS	12/16/16	Not Sampled Due to Presence of PSH				
	NS	03/17/17	Not Sampled Due to Presence of PSH				
	NS	06/16/17	Not Sampled Due to Presence of PSH				
	NS	09/15/17	Not Sampled Due to Presence of PSH				
	NS	12/20/17	Not Sampled Due to Presence of PSH				
	NS	03/16/18	Not Sampled Due to Presence of PSH				
	NS	06/12/18	Not Sampled Due to Presence of PSH				
	NS	09/11/18	Not Sampled Due to Presence of PSH				
	NS	12/28/18	Not Sampled Due to Presence of PSH				
MW-18	1603161-07	03/22/16	0.084	0.047	0.0026	0.0074	
	1606205-13	06/21/16	0.23	0.14	0.0039	0.040	
	1609096-13	09/16/16	0.34	0.097	0.0034	0.040	
	1612127-13	12/16/16	0.45	0.11	0.0089	0.047	
	1703157-12	03/17/17	1.2	0.98	0.034	0.32	
	1706184-13	06/16/17	0.47	0.33	0.015	0.20	
	1709144-14	09/15/17	1.2	0.0071	<0.001	<0.002	
	1712267-13	12/20/17	0.47	0.052	0.0062	0.035	
	1803216-14	03/16/18	0.42	0.061	0.0081	0.040	
	1806151-12	06/12/18	0.23	0.035	0.0044	0.035	
	1809155-11	09/11/18	0.073	0.0045	0.002	0.011	
	1812329-11	12/27/18	0.035	0.0021	<0.001	0.0034	
MW-19	NS	03/22/16	Dry - No Sample Collected				
	1606205-14	06/21/16	0.0011	<0.001	<0.001	<0.001	
	1609096-14	09/16/16	0.0051	0.0011	<0.001	<0.001	
	1612127-14	12/16/16	<0.001	<0.001	<0.001	<0.001	
	1703157-13	03/17/17	0.0021	<0.001	<0.001	<0.001	
	1706184-14	06/16/17	0.002	0.0011	<0.001	<0.001	
	1709144-13	09/15/17	0.013	0.0017	<0.001	0.0037	
	1712267-14	12/20/17	0.0012	<0.001	<0.001	<0.002	
	1803216-15	03/16/18	<0.001	<0.001	<0.001	<0.002	
	1806151-13	06/12/18	<0.001	<0.001	<0.001	<0.002	
	1809155-12	09/11/18	<0.001	<0.001	<0.001	<0.002	
		1812346-07	12/28/18	<0.001	<0.001	<0.001	<0.002



Table 2 - Groundwater Analytical Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, 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-20	NS	03/22/16	Not Sampled Due to Presence of PSH			
	NS	06/21/16	Not Sampled Due to Presence of PSH			
	NS	09/16/16	Not Sampled Due to Presence of PSH			
	NS	12/16/16	Not Sampled Due to Presence of PSH			
	NS	03/17/17	Not Sampled Due to Presence of PSH			
	NS	06/16/17	Not Sampled Due to Presence of PSH			
	NS	09/15/17	Not Sampled Due to Presence of PSH			
	NS	12/20/17	Not Sampled Due to Presence of PSH			
	NS	03/16/18	Not Sampled Due to Presence of PSH			
	NS	06/12/18	Not Sampled Due to Presence of PSH			
MW-21	NS	09/15/17	Not Sampled Due to Presence of PSH			
	NS	12/20/17	Not Sampled Due to Presence of PSH			
	NS	03/16/18	Not Sampled Due to Presence of PSH			
	NS	06/12/18	Not Sampled Due to Presence of PSH			
	1809155-13	09/11/18	8.1	14	1.6	7.7
MW-22	1812346-08	12/28/18	5.0	9	1.8	8.5
	1709144-12	09/15/17	4.0	14	0.84	11
	1712267-15	12/20/17	6.5	15	1.2	6.8
	1803216-16	03/16/18	3.0	6.8	0.56	4.0
	1806151-14	06/12/18	2.6	5.6	0.51	2.3
	1809155-14	09/11/18	3.0	8.4	0.94	5.9
	1812346-09	12/28/18	1.5	2.1	0.4	2.2
MW-23	1805006-01	05/01/18	4.1	15	1.5	8.3
	NS	06/12/18	Not Sampled Due to Presence of PSH			
	NS	09/11/18	Not Sampled Due to Presence of PSH			
	NS	09/11/18	Not Sampled Due to Presence of PSH			
MW-24	1805006-02	05/01/18	6.7	15	1.3	6.8
	1806151-15	06/12/18	4.6	9.3	0.21	2.9
	1809155-15	09/11/18	5.3	9.9	0.73	4.9
	1812346-10	12/28/18	5.6	11	0.99	6.4
MW-25	1805006-03	05/01/18	1.1	3.2	0.25	1.2
	1806151-16	06/12/18	2.2	5.8	0.18	2.2
	1809155-16	09/11/18	3.1	6.6	0.54	5.3
	1812346-11	12/28/18	3.3	3.9	0.49	5.6
MW-25 (Duplicate)	1805006-05	05/01/18	1.1	3.7	0.33	2.1
MW-26	NS	05/01/18	Dry - No Sample Collected			
	1806151-17	06/12/18	<0.001	<0.001	<0.001	<0.002
	1809155-17	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-12	12/27/18	<0.001	<0.001	<0.001	<0.002
MW-27	1805006-04	05/01/18	7.0	18	1.7	8.7
	NS	06/12/18	Not Sampled Due to Presence of PSH			
	NS	09/11/18	Not Sampled Due to Presence of PSH			
	NS	12/28/18	Not Sampled Due to Presence of PSH			
MW-28	1806151-18	06/12/18	<0.001	<0.001	<0.001	<0.002
	1809155-18	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-13	12/27/18	<0.001	<0.001	<0.001	<0.002
MW-29	NS	06/12/18	Dry - No Sample Collected			
	NS	09/11/18	Dry - No Sample Collected			
	NS	12/28/18	Dry - No Sample Collected			
MW-30	1806151-19	06/12/18	<0.001	<0.001	<0.001	<0.002
	1809155-19	09/11/18	<0.001	<0.001	<0.001	<0.002
	1812329-14	12/27/18	<0.001	<0.001	<0.001	<0.002
MW-31	NS	06/12/18	Dry - No Sample Collected			
	NS	09/11/18	Dry - No Sample Collected			
	NS	12/28/18	Dry - No Sample Collected			

mg/L - milligrams per liter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

NS - Not Sampled

PSH - Phase-Separated Hydrocarbons



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-1	4865.30	40.38	11/4/2015	NA	36.49	0.00	4828.81
			12/3/2015	NA	30.88	0.00	4834.42
			12/8/2015	30.62	30.63	0.01	4834.68
			12/22/2015	NA	31.46	0.00	4833.84
			12/30/2015	NA	32.03	0.00	4833.27
			1/13/2016	NA	38.05	0.00	4827.25
			1/21/2016	NA	31.08	0.00	4834.22
			1/27/2016	31.10	31.13	0.03	4834.19
			2/8/2016	31.24	31.29	0.05	4834.05
			2/15/2016	30.90	30.92	0.02	4834.40
			2/16/2016	30.96	30.99	0.03	4834.33
			2/17/2016	NA	32.27	0.00	4833.03
			2/19/2016	NA	31.04	0.00	4834.26
			2/24/2016	NA	31.19	0.00	4834.11
			2/29/2016	NA	30.95	0.00	4834.35
			3/8/2016	NA	32.67	0.00	4832.63
			3/15/2016	NA	32.95	0.00	4832.35
			3/22/2016	NA	33.02	0.00	4832.28
			3/29/2016	NA	33.04	0.00	4832.26
			4/5/2016	NA	33.22	0.00	4832.08
			4/19/2016	NA	31.70	0.00	4833.60
			4/26/2016	NA	32.78	0.00	4832.52
			5/5/2016	NA	31.41	0.00	4833.89
			6/6/2016	31.35	31.36	0.01	4833.95
			6/20/2016	31.38	31.42	0.04	4833.91
			8/11/2016	NA	30.88	0.00	4834.42
			9/15/2016	NA	30.82	0.00	4834.48
			12/15/2016	30.98	30.99	0.01	4834.32
			3/16/2017	31.45	31.49	0.04	4833.84
			6/15/2017	31.91	31.95	0.04	4833.38
			9/14/2017	30.75	30.78	0.03	4834.54
			12/19/2017	NA	30.92	0.00	4834.38
3/15/2018	30.91	31.02	0.11	4834.37			
6/11/2018	31.11	31.19	0.08	4834.17			
9/10/2018	30.11	30.22	0.11	4835.17			
12/27/2018	30.90	30.99	0.09	4834.38			
MW-2	4865.8	39.50	11/4/2015	31.15	31.20	0.05	4834.64
			12/3/2015	31.60	31.62	0.02	4834.20
			12/8/2015	31.50	31.52	0.02	4834.30
			12/22/2015	NA	31.29	0.00	4834.51
			12/30/2015	31.93	31.94	0.01	4833.87
			1/13/2016	NA	31.55	0.00	4834.25
			1/21/2016	NA	31.71	0.00	4834.09
			1/27/2016	NA	31.72	0.00	4834.08
			2/8/2016	31.90	31.92	0.02	4833.90
			2/15/2016	31.53	31.58	0.05	4834.26
			2/16/2016	31.63	31.66	0.03	4834.16
			2/17/2016	32.31	32.35	0.04	4833.48
			2/19/2016	31.68	31.73	0.05	4834.11
			2/24/2016	NA	31.80	0.00	4834.00
			2/29/2016	31.56	31.63	0.07	4834.23
			3/8/2016	NA	32.25	0.00	4833.55
			3/15/2016	NA	32.37	0.00	4833.43
			3/22/2016	NA	32.21	0.00	4833.59
			3/29/2016	NA	32.21	0.00	4833.59
			4/5/2016	NA	32.42	0.00	4833.38
			4/19/2016	32.25	32.27	0.02	4833.55
			4/26/2016	NA	32.36	0.00	4833.44
			5/5/2016	NA	32.12	0.00	4833.68
			6/6/2016	32.10	32.14	0.04	4833.69
			6/20/2016	32.15	32.17	0.02	4833.65
			8/11/2016	NA	31.43	0.00	4834.37
			9/15/2016	31.20	31.27	0.07	4834.59
			12/15/2016	38.31	38.50	0.49	4827.69
			3/16/2017	31.45	31.49	0.04	4834.34
			6/15/2017	32.15	32.20	0.05	4833.64
			9/14/2017	30.78	30.80	0.02	4835.02
			12/19/2017	NA	31.24	0.00	4834.56
3/15/2018	31.14	31.16	0.02	4834.66			
6/11/2018	NA	30.57	0.00	4835.23			
9/10/2018	NA	29.39	0.00	4836.41			
12/27/2018	NA	30.27	0.00	4835.53			



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-3	4866.9	40.00	11/4/2015	35.61	36.52	0.91	4831.11
			12/3/2015	34.74	35.89	1.15	4831.93
			12/8/2015	34.77	35.62	0.85	4831.96
			12/22/2015	34.44	35.36	0.92	4832.28
			12/30/2015	35.07	35.93	0.86	4831.66
			1/13/2016	37.32	37.82	0.50	4829.48
			1/21/2016	33.70	34.78	1.08	4832.99
			1/27/2016	33.62	35.13	1.51	4832.98
			2/8/2016	33.47	35.88	2.41	4832.96
			2/15/2016	32.95	36.07	3.12	4833.34
			2/16/2016	32.98	36.16	3.18	4833.30
			2/17/2016	35.38	36.50	1.12	4831.30
			2/19/2016	33.80	35.09	1.29	4832.85
			2/24/2016	33.58	35.29	1.71	4832.98
			2/29/2016	33.46	35.37	1.91	4833.07
			3/8/2016	33.68	34.69	1.01	4833.02
			3/15/2016	33.65	33.70	0.05	4833.24
			3/22/2016	34.55	35.55	1.00	4832.15
			3/29/2016	34.48	35.38	0.90	4832.24
			4/5/2016	34.95	35.05	0.10	4831.93
			4/19/2016	34.01	34.71	0.70	4832.75
			4/26/2016	34.45	35.04	0.59	4832.33
			5/5/2016	35.37	36.11	0.74	4831.38
			6/6/2016	33.91	34.82	0.91	4832.81
			6/20/2016	33.75	35.32	1.57	4832.84
			8/11/2016	33.90	34.60	0.70	4832.86
			9/15/2016	33.71	34.41	0.70	4833.05
			12/15/2016	33.79	34.30	0.51	4833.01
			3/16/2017	34.87	35.72	0.85	4831.86
			6/16/2017	33.90	34.70	0.80	4832.84
			9/14/2017	NG	NG	NG	NG
			12/19/2017	33.40	33.61	0.21	4833.46
			3/15/2018	32.92	33.11	0.19	4833.94
6/11/2018	33.20	33.88	0.68	4833.57			
9/10/2018	32.60	32.74	0.14	4834.27			
12/27/2018	32.55	33.02	0.47	4834.26			
MW-4	4864	40.00	11/4/2015	NA	35.69	0.00	4828.31
			12/3/2015	NA	37.50	0.00	4826.50
			12/8/2015	NA	35.78	0.00	4828.22
			12/22/2015	NA	34.55	0.00	4829.45
			12/30/2015	NA	35.60	0.00	4828.40
			1/13/2016	NA	38.05	0.00	4825.95
			1/21/2016	NA	34.28	0.00	4829.72
			1/27/2016	NA	30.36	0.00	4833.64
			2/8/2016	NA	29.24	0.00	4834.76
			2/15/2016	NA	29.03	0.00	4834.97
			2/16/2016	NA	29.02	0.00	4834.98
			2/17/2016	NA	36.60	0.00	4827.40
			2/19/2016	NA	33.94	0.00	4830.06
			2/24/2016	NA	29.81	0.00	4834.19
			2/29/2016	NA	29.51	0.00	4834.49
			3/8/2016	NA	33.15	0.00	4830.85
			3/15/2016	NA	35.27	0.00	4828.73
			3/22/2016	NA	35.13	0.00	4828.87
			3/29/2016	NA	35.02	0.00	4828.98
			4/5/2016	NA	35.94	0.00	4828.06
			4/19/2016	NA	33.14	0.00	4830.86
			4/26/2016	NA	29.88	0.00	4834.12
			5/5/2016	NA	29.36	0.00	4834.64
			6/6/2016	NA	29.35	0.00	4834.65
			6/20/2016	NA	29.31	0.00	4834.69
			8/11/2016	NA	29.00	0.00	4835.00
			9/15/2016	NA	29.03	0.00	4834.97
			12/15/2016	NA	29.48	0.00	4834.52
			3/16/2017	NA	29.89	0.00	4834.11
			6/15/2017	NA	31.90	0.00	4832.10
			9/14/2017	NA	29.75	0.00	4834.25
			12/19/2017	NA	29.84	0.00	4834.16
			3/15/2018	NA	29.90	0.00	4834.10
6/11/2018	NA	30.59	0.00	4833.41			
9/10/2018	NA	30.40	0.00	4833.60			
12/27/2018	NA	30.12	0.00	4833.88			



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-5	4868.6	40.00	2/15/2016	40.31	40.41	0.10	4828.27
			2/16/2016	39.95	40.09	0.14	4828.62
			2/17/2016	NG	NG	NG	NG
			2/19/2016	39.78	40.07	0.29	4828.76
			2/24/2016	38.60	39.19	0.59	4829.88
			2/29/2016	37.66	38.56	0.90	4830.76
			3/8/2016	36.66	37.95	1.29	4831.69
			3/15/2016	36.20	36.35	0.15	4832.37
			3/22/2016	35.95	37.80	1.85	4832.29
			3/29/2016	35.78	36.51	0.73	4832.68
			4/5/2016	NA	35.74	0.00	4832.86
			4/19/2016	35.65	38.30	2.65	4832.43
			4/26/2016	35.48	38.30	2.82	4832.57
			5/5/2016	35.52	35.53	0.01	4833.08
			6/6/2016	39.08	39.85	0.77	4829.37
			6/20/2016	37.22	38.46	1.24	4831.14
			8/11/2016	39.08	39.65	0.57	4829.41
			9/15/2016	37.18	38.37	1.19	4831.19
			12/15/2016	37.05	38.22	1.17	4831.32
			3/16/2017	37.10	38.22	1.12	4831.28
			6/15/2017	36.86	37.90	1.04	4831.54
			9/14/2017	NG	NG	NG	NG
			12/19/2017	35.87	36.00	0.13	4832.70
			3/15/2018	35.59	35.74	0.15	4832.98
			6/11/2018	35.85	36.05	0.20	4832.71
			9/10/2018	34.74	34.88	0.14	4833.83
			12/27/2018	NA	35.26	0.00	4833.34
MW-6	4867.6	45.00	2/15/2016	35.32	36.60	1.28	4832.03
			2/16/2016	35.33	36.91	1.58	4831.96
			2/17/2016	35.95	36.14	0.19	4831.61
			2/19/2016	35.55	36.50	0.95	4831.86
			2/24/2016	35.30	37.55	2.25	4831.86
			2/29/2016	34.76	38.19	3.43	4832.17
			3/8/2016	34.44	39.14	4.70	4832.24
			3/15/2016	34.28	38.44	4.16	4832.50
			3/22/2016	33.92	39.90	5.98	4832.51
			3/29/2016	33.88	40.03	6.15	4832.51
			4/5/2016	34.02	39.58	5.56	4832.49
			4/19/2016	34.11	40.91	6.80	4832.16
			4/26/2016	33.80	38.87	5.07	4832.81
			5/5/2016	34.01	40.78	6.77	4832.26
			6/6/2016	33.94	40.80	6.86	4832.32
			6/20/2016	34.72	39.50	4.78	4831.94
			8/11/2016	35.53	36.32	0.79	4831.92
			9/15/2016	35.17	36.99	1.82	4832.07
			12/15/2016	35.11	36.27	1.16	4832.26
			3/16/2017	35.19	36.20	1.01	4832.21
			6/15/2017	35.25	36.20	0.95	4832.16
			9/14/2017	34.81	35.09	0.28	4832.74
			12/19/2017	34.43	34.87	0.44	4833.08
			3/15/2018	33.95	33.97	0.02	4833.65
			6/11/2018	NA	34.00	0.00	4833.60
			9/10/2018	33.50	34.98	1.48	4833.81
			12/27/2018	33.46	33.50	0.04	4834.13
MW-7	4863.2	40.00	2/15/2016	31.86	34.29	2.43	4830.86
			2/16/2016	30.00	33.03	3.03	4832.61
			2/17/2016	35.38	36.50	1.12	4827.60
			2/19/2016	30.26	32.22	1.96	4832.56
			2/24/2016	28.01	30.35	2.34	4834.73
			2/29/2016	27.75	29.91	2.16	4835.03
			3/8/2016	27.55	29.73	2.18	4835.22
			3/15/2016	27.61	29.90	2.29	4835.14
			3/22/2016	27.58	29.93	2.35	4835.16
			3/29/2016	27.55	29.95	2.40	4835.18
			4/5/2016	27.75	30.28	2.53	4834.95
			4/19/2016	27.89	27.91	0.02	4835.31
			4/26/2016	27.44	30.06	2.62	4835.25
			5/5/2016	27.81	29.09	1.28	4835.14
			6/6/2016	28.62	30.50	1.88	4834.21
			6/20/2016	28.10	29.61	1.51	4834.80
			8/11/2016	28.68	29.30	0.62	4834.40
			9/15/2016	28.38	29.27	0.89	4834.65
			12/15/2016	28.67	29.32	0.65	4834.40
			3/16/2017	28.96	29.66	0.70	4834.10
			6/15/2017	29.21	29.89	0.68	4833.86
			9/14/2017	NG	NG	NG	NG
			12/19/2017	28.87	30.56	1.69	4834.00
			3/15/2018	28.90	29.56	0.66	4834.17
			6/11/2018	29.39	29.68	0.29	4833.75
			9/10/2018	29.03	29.36	0.33	4834.11
			12/27/2018	29.07	29.42	0.35	4834.06



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-8	4864.8	40.00	2/15/2016	NA	35.85	0.00	4828.95
			2/16/2016	NA	34.10	0.00	4830.70
			2/17/2016	NA	35.09	0.00	4829.71
			2/19/2016	NA	32.57	0.00	4832.23
			2/24/2016	NA	28.81	0.00	4835.99
			2/29/2016	NA	27.45	0.00	4837.35
			3/8/2016	NA	27.14	0.00	4837.66
			3/15/2016	NA	27.25	0.00	4837.55
			3/22/2016	NA	33.80	0.00	4831.00
			3/29/2016	NA	27.38	0.00	4837.42
			4/5/2016	27.70	27.73	0.03	4837.09
			4/19/2016	28.04	28.06	0.02	4836.76
			4/26/2016	27.72	27.75	0.03	4837.07
			5/5/2016	28.28	28.30	0.02	4836.52
			6/6/2016	28.46	28.52	0.06	4836.33
			6/20/2016	NA	27.83	0.00	4836.97
			8/11/2016	NA	26.28	0.00	4838.52
			9/15/2016	26.35	26.36	0.01	4838.45
			12/15/2016	NA	27.45	0.00	4837.35
			3/16/2017	28.06	28.07	0.01	4836.74
			6/15/2017	NA	27.15	0.00	4837.65
			9/14/2017	NA	26.04	0.00	4838.76
			12/19/2017	NA	28.24	0.00	4836.56
			3/15/2018	NA	27.81	0.00	4836.99
			6/11/2018	NA	26.67	0.00	4838.13
			9/10/2018	NA	26.45	0.00	4838.35
			12/27/2018	NA	28.03	0.00	4836.77
MW-9	4861.4	35.00	3/15/2016	NA	33.45	0.00	4827.95
			3/21/2016	NA	31.84	0.00	4829.56
			3/22/2016	NA	33.80	0.00	4827.60
			3/29/2016	NA	31.85	0.00	4829.55
			4/5/2016	NA	29.98	0.00	4831.42
			4/19/2016	NA	27.48	0.00	4833.92
			4/26/2016	NA	26.80	0.00	4834.60
			5/5/2016	NA	26.61	0.00	4834.79
			6/6/2016	NA	26.50	0.00	4834.90
			6/20/2016	NA	26.40	0.00	4835.00
			8/11/2016	NA	26.52	0.00	4834.88
			9/15/2016	NA	26.75	0.00	4834.65
			12/15/2016	NA	27.09	0.00	4834.31
			3/16/2017	NA	27.44	0.00	4833.96
			6/15/2017	NA	27.72	0.00	4833.68
			9/14/2017	NA	27.84	0.00	4833.56
			12/19/2017	NA	28.76	0.00	4832.64
			3/15/2018	NA	27.48	0.00	4833.92
			6/11/2018	NA	27.61	0.00	4833.79
			9/10/2018	NA	27.85	0.00	4833.55
12/27/2018	NA	27.64	0.00	4833.76			
MW-10	4868.3	39	3/15/2016	NA	Dry	0.00	
			3/21/2016	NA	Dry	0.00	
			3/22/2016	NA	Dry	0.00	
			3/29/2016	NA	Dry	0.00	
			4/5/2016	NA	39.12	0.00	4829.18
			4/19/2016	NA	38.19	0.00	4830.11
			4/26/2016	NA	37.78	0.00	4830.52
			5/5/2016	NA	37.58	0.00	4830.72
			6/6/2016	NA	37.35	0.00	4830.95
			6/20/2016	NA	37.32	0.00	4830.98
			8/11/2016	NA	37.20	0.00	4831.10
			9/15/2016	NA	37.13	0.00	4831.17
			12/15/2016	NA	36.89	0.00	4831.41
			3/16/2017	NA	36.75	0.00	4831.55
			6/15/2017	NA	36.41	0.00	4831.89
			9/14/2017	NA	35.78	0.00	4832.52
			12/19/2017	NA	34.63	0.00	4833.67
			3/15/2018	NA	33.60	0.00	4834.70
			6/11/2018	NA	33.71	0.00	4834.59
			9/10/2018	NA	34.22	0.00	4834.08
12/27/2018	NA	34.11	0.00	4834.19			



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-11	4872.2	44.00	3/15/2016	NA	41.07	0.00	4831.13
			3/21/2016	NA	41.10	0.00	4831.10
			3/22/2016	NA	42.22	0.00	4829.98
			3/29/2016	NA	40.98	0.00	4831.22
			4/5/2016	NA	41.06	0.00	4831.14
			4/19/2016	NA	47.15	0.00	4825.05
			4/26/2016	NA	40.83	0.00	4831.37
			5/5/2016	NA	41.06	0.00	4831.14
			6/6/2016	NA	41.00	0.00	4831.20
			6/20/2016	NA	41.08	0.00	4831.12
			8/11/2016	NA	41.83	0.00	4830.37
			9/15/2016	NA	40.81	0.00	4831.39
			12/15/2016	NA	40.59	0.00	4831.61
			3/16/2017	NA	40.39	0.00	4831.81
			6/15/2017	NA	40.17	0.00	4832.03
			9/14/2017	NA	39.63	0.00	4832.57
			12/19/2017	NA	39.14	0.00	4833.06
			3/15/2018	NA	38.63	0.00	4833.57
			6/11/2018	NA	38.59	0.00	4833.61
			9/10/2018	NA	39.07	0.00	4833.13
12/27/2018	NA	38.48	0.00	4833.72			
MW-12	4870.6	38.00	3/15/2016	NA	Dry	0.00	
			3/21/2016	NA	Dry	0.00	
			3/22/2016	NA	Dry	0.00	
			3/29/2016	NA	Dry	0.00	
			4/5/2016	NA	40.09	0.00	4830.51
			4/19/2016	NA	39.46	0.00	4831.14
			4/26/2016	NA	39.28	0.00	4831.32
			5/5/2016	NA	39.16	0.00	4831.44
			6/6/2016	NA	38.94	0.00	4831.66
			6/20/2016	NA	38.91	0.00	4831.69
			8/11/2016	NA	38.83	0.00	4831.77
			9/15/2016	NA	38.78	0.00	4831.82
			12/15/2016	NA	38.67	0.00	4831.93
			3/16/2017	NA	38.61	0.00	4831.99
			6/15/2017	NA	38.45	0.00	4832.15
			9/14/2017	NA	38.35	0.00	4832.25
			12/19/2017	NA	38.10	0.00	4832.50
			3/15/2018	NA	37.88	0.00	4832.72
			6/11/2018	NA	37.72	0.00	4832.88
			9/10/2018	NA	37.72	0.00	4832.88
12/27/2018	NA	37.60	0.00	4833.00			
MW-13	4864.9	40.00	3/15/2016	NA	Dry	0.00	
			3/21/2016	NA	38.86	0.00	4826.04
			3/22/2016	NA	39.35	0.00	4825.55
			3/29/2016	NA	37.37	0.00	4827.53
			4/5/2016	NA	35.84	0.00	4829.06
			4/19/2016	NA	33.26	0.00	4831.64
			4/26/2016	NA	32.39	0.00	4832.51
			5/5/2016	NA	31.71	0.00	4833.19
			6/6/2016	NA	30.83	0.00	4834.07
			6/20/2016	NA	30.76	0.00	4834.14
			8/11/2016	NA	31.00	0.00	4833.90
			9/15/2016	NA	30.77	0.00	4834.13
			12/15/2016	NA	31.06	0.00	4833.84
			3/16/2017	NA	31.15	0.00	4833.75
			6/15/2017	NA	31.30	0.00	4833.60
			9/14/2017	NA	31.46	0.00	4833.44
			12/19/2017	NA	32.63	0.00	4832.27
			3/15/2018	NA	31.35	0.00	4833.55
			6/11/2018	NA	31.57	0.00	4833.33
			9/10/2018	NA	31.62	0.00	4833.28
12/27/2018	NA	31.71	0.00	4833.19			
MW-14	4864.3	40.00	3/15/2016	NA	29.62	0.00	4834.68
			3/21/2016	NA	29.55	0.00	4834.75
			3/22/2016	NA	29.35	0.00	4834.95
			3/29/2016	NA	29.37	0.00	4834.93
			4/5/2016	NA	29.64	0.00	4834.66
			4/19/2016	NA	29.85	0.00	4834.45
			4/26/2016	NA	29.51	0.00	4834.79
			5/5/2016	NA	29.79	0.00	4834.51
			6/6/2016	NA	29.73	0.00	4834.57
			6/20/2016	NA	29.94	0.00	4834.36
			8/11/2016	NA	29.71	0.00	4834.59
			9/15/2016	NA	29.80	0.00	4834.50
			12/15/2016	NA	29.87	0.00	4834.43
			3/16/2017	NA	30.29	0.00	4834.01
			6/15/2017	NA	30.65	0.00	4833.65
			9/14/2017	NA	30.42	0.00	4833.88
			12/19/2017	NA	30.63	0.00	4833.67
			3/15/2018	NA	30.11	0.00	4834.19
			6/11/2018	NA	30.50	0.00	4833.80
			9/10/2018	NA	30.31	0.00	4833.99
12/27/2018	NA	30.15	0.00	4834.15			



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-15	4861.9	34.00	3/15/2016	NA	35.15	0.00	4826.75
			3/21/2016	NA	33.75	0.00	4828.15
			3/22/2016	NA	34.15	0.00	4827.75
			3/29/2016	NA	31.69	0.00	4830.21
			4/5/2016	NA	30.14	0.00	4831.76
			4/19/2016	NA	28.50	0.00	4833.40
			4/26/2016	NA	27.96	0.00	4833.94
			5/5/2016	NA	27.64	0.00	4834.26
			6/6/2016	NA	27.12	0.00	4834.78
			6/20/2016	NA	27.00	0.00	4834.90
			8/11/2016	NA	27.47	0.00	4834.43
			9/15/2016	NA	27.19	0.00	4834.71
			12/15/2016	NA	27.60	0.00	4834.30
			3/16/2017	NA	28.11	0.00	4833.79
			6/15/2017	NA	28.59	0.00	4833.31
			9/14/2017	28.92	28.99	0.07	4832.97
			12/19/2017	NA	29.10	0.00	4832.80
			3/15/2018	29.01	29.05	0.04	4832.88
			6/11/2018	29.32	29.40	0.08	4832.56
			9/10/2018	29.01	29.22	0.21	4832.85
12/27/2018	29.05	29.10	0.05	4832.84			
MW-16	4863.9	39.00	3/15/2016	NA	35.52	0.00	4828.38
			3/21/2016	NA	32.67	0.00	4831.23
			3/22/2016	36.31	36.34	0.03	4827.58
			3/29/2016	NA	30.70	0.00	4833.20
			4/5/2016	NA	29.65	0.00	4834.25
			4/19/2016	NA	29.19	0.00	4834.71
			4/26/2016	NA	28.98	0.00	4834.92
			5/5/2016	NA	29.18	0.00	4834.72
			6/6/2016	NA	29.27	0.00	4834.63
			6/20/2016	NA	29.30	0.00	4834.60
			8/11/2016	NA	29.30	0.00	4834.60
			9/15/2016	NA	29.20	0.00	4834.70
			12/15/2016	NA	29.15	0.00	4834.75
			3/16/2017	NA	29.13	0.00	4834.77
			6/15/2017	NA	29.53	0.00	4834.37
			9/14/2017	NA	29.47	0.00	4834.43
			12/19/2017	NA	30.00	0.00	4833.90
			3/15/2018	NA	28.49	0.00	4835.41
			6/11/2018	NA	28.78	0.00	4835.12
			9/10/2018	NA	27.63	0.00	4836.27
12/27/2018	NA	28.04	0.00	4835.86			
MW-17	4866.5	44.00	3/16/2016	NA	Dry	0.00	
			3/21/2016	43.16	NA	0.84	
			3/22/2016	44.45	45.53	1.08	4821.84
			3/29/2016	39.16	43.55	4.39	4826.48
			4/5/2016	36.62	42.32	5.70	4828.76
			4/19/2016	34.22	42.25	8.03	4830.71
			4/26/2016	33.39	42.16	8.77	4831.39
			5/5/2016	33.04	42.05	9.01	4831.69
			6/6/2016	32.71	41.94	9.23	4831.98
			6/20/2016	36.13	43.14	7.01	4829.00
			8/11/2016	44.20	45.25	1.05	4822.09
			9/15/2016	40.19	43.34	3.15	4825.69
			12/15/2016	40.75	43.09	2.34	4825.29
			3/16/2017	38.92	41.12	2.20	4827.15
			6/15/2017	38.00	39.74	1.74	4828.16
			9/14/2017	NG	NG		NG
			12/19/2017	33.50	35.59	2.09	4832.59
			3/15/2018	32.75	33.05	0.30	4833.69
			6/11/2018	32.81	33.33	0.52	4833.59
			9/10/2018	32.18	32.45	0.27	4834.27
12/27/2018	32.25	32.55	0.30	4834.19			
MW-18	4869.2	44.00	3/16/2016	NA	38.87	0.00	4830.33
			3/21/2016	NA	37.72	0.00	4831.48
			3/22/2016	NA	38.10	0.00	4831.10
			3/29/2016	NA	37.55	0.00	4831.65
			4/5/2016	NA	37.74	0.00	4831.46
			4/19/2016	NA	37.87	0.00	4831.33
			4/26/2016	NA	37.55	0.00	4831.65
			5/5/2016	NA	37.79	0.00	4831.41
			6/6/2016	NA	37.75	0.00	4831.45
			6/20/2016	NA	37.90	0.00	4831.30
			8/11/2016	NA	37.63	0.00	4831.57
			9/15/2016	NA	37.56	0.00	4831.64
			12/15/2016	NA	37.33	0.00	4831.87
			3/16/2017	NA	37.29	0.00	4831.91
			6/15/2017	NA	37.49	0.00	4831.71
			9/14/2017	NA	36.60	0.00	4832.60
			12/19/2017	NA	28.90	0.00	4840.30
			3/15/2018	NA	35.45	0.00	4833.75
			6/11/2018	NA	35.48	0.00	4833.72
			9/10/2018	NA	35.34	0.00	4833.86
12/27/2018	NA	35.25	0.00	4833.95			



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-19	4870.8	39.00	3/21/2016	NA	Dry	0.00	
			3/22/2016	NA	Dry	0.00	
			3/29/2016	NA	Dry	0.00	
			4/5/2016	NA	Dry	0.00	
			4/19/2016	NA	39.87	0.00	4830.93
			4/26/2016	NA	39.56	0.00	4831.24
			5/5/2016	NA	39.44	0.00	4831.36
			6/6/2016	NA	39.20	0.00	4831.60
			6/20/2016	NA	39.18	0.00	4831.62
			8/11/2016	NA	39.10	0.00	4831.70
			9/15/2016	NA	39.05	0.00	4831.75
			12/15/2016	NA	38.92	0.00	4831.88
			3/16/2017	NA	38.81	0.00	4831.99
			6/15/2017	NA	38.68	0.00	4832.12
			9/14/2017	NA	38.50	0.00	4832.30
			12/19/2017	NA	38.25	0.00	4832.55
			3/15/2018	NA	37.78	0.00	4833.02
6/11/2018	NA	38.62	0.00	4832.18			
9/10/2018	NA	38.15	0.00	4832.65			
12/27/2018	NA	37.45	0.00	4833.35			
MW-20	4867.5	39.00	3/21/2016	33.95	38.85	4.90	4832.59
			3/22/2016	38.35	40.21	1.86	4828.79
			3/29/2016	38.34	39.15	0.81	4829.00
			4/5/2016	33.52	38.88	5.36	4832.93
			4/19/2016	33.67	38.29	4.62	4832.92
			4/26/2016	33.26	38.05	4.79	4833.30
			5/5/2016	33.60	36.30	2.70	4833.37
			6/6/2016	33.85	38.85	5.00	4832.67
			6/20/2016	33.80	38.30	4.50	4832.82
			8/11/2016	35.02	38.32	3.30	4831.83
			9/15/2016	33.89	37.57	3.68	4832.89
			12/15/2016	34.10	35.90	1.80	4833.05
			3/16/2017	34.27	35.91	1.64	4832.91
			6/15/2017	34.27	35.88	1.61	4832.91
			9/14/2017	NG	NG	NG	NG
			12/19/2017	34.06	35.65	1.59	4833.13
			3/15/2018	33.95	34.99	1.04	4833.35
6/11/2018	34.15	34.30	0.15	4833.32			
9/10/2018	33.95	34.88	0.93	4833.37			
12/27/2018	34.02	34.20	0.18	4833.44			
MW-21	4863.8	40.15	6/29/2017	NA	Drv	0.00	
			9/14/2017	30.78	32.29	1.51	4832.72
			12/19/2017	29.33	33.10	3.77	4833.73
			3/15/2018	29.68	29.80	0.12	4834.10
			6/11/2018	29.85	29.90	0.05	4833.94
			9/10/2018	NA	30.16	0.00	4833.64
			12/27/2018	NA	30.24	0.00	4833.56
MW-22	4866.7	39.68	6/29/2017	35.69	35.88	0.19	4830.97
			9/14/2017	33.97	34.09	0.12	4832.71
			12/19/2017	NA	32.17	0.00	4834.53
			3/15/2018	NA	30.65	0.00	4836.05
			6/11/2018	NA	31.54	0.00	4835.16
			9/10/2018	NA	32.20	0.00	4834.50
12/27/2018	NA	32.42	0.00	4834.28			
MW-23	4866.9	35.36	4/20/2018	NA	DRY	0.00	
			5/1/2018	NA	34.35	0.00	4832.55
			6/11/2018	33.37	33.80	0.43	4833.45
			9/10/2018	33.50	33.98	0.48	4833.31
			12/27/2018	33.45	34.10	0.65	4833.32
MW-24	4870.5	47.32	4/20/2018	NA	40.40	0.00	4830.10
			5/1/2018	NA	37.60	0.00	4832.90
			6/11/2018	NA	36.55	0.00	4833.95
			9/10/2018	NA	36.82	0.00	4833.68
			12/27/2018	NA	36.98	0.00	4833.52
MW-25	4862.3	31.82	4/20/2018	NA	DRY	0.00	
			5/1/2018	NA	29.97	0.00	4832.33
			5/10/2018	NA	29.34	0.00	4832.96
			6/11/2018	NA	28.84	0.00	4833.46
			9/10/2018	NA	28.95	0.00	4833.35
			12/27/2018	NA	28.89	0.00	4833.41
MW-26	4866.8	36.85	4/20/2018	NA	DRY	0.00	
			5/1/2018	NA	DRY	0.00	
			5/10/2018	NA	DRY	0.00	
			6/11/2018	NA	36.05	0.00	4830.75
			9/10/2018	NA	35.79	0.00	4831.01
			12/27/2018	NA	35.82	0.00	4830.98



Table 3 - Gauging Data

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Top of Casing Elevation (ft amsl)	Total Depth of Well (ft)	Date Gauged	Depth to Product (ft btoc)	DTW (ft btoc)	Product Thickness (ft)	Potentiometric Surface Elevation (ft)
MW-27	4872.1	45.32	5/1/2018	42.00	42.70	0.70	4829.96
			6/11/2018	41.81	42.38	0.57	4830.18
			9/10/2018	41.70	42.77	1.07	4830.19
			12/27/2018	42.01	42.54	0.53	4829.99
MW-28	4878.2	56.20	6/11/2018	NA	40.33	0.00	4837.87
			9/10/2018	NA	40.55	0.00	4837.65
			12/27/2018	NA	40.51	0.00	4837.69
MW-29	4872.8	46.18	6/11/2018	NA	DRY	0.00	
			9/10/2018	NA	DRY	0.00	
			12/27/2018	NA	DRY	0.00	
MW-30	4868.9	37.16	6/11/2018	NA	33.12	0.00	4835.78
			9/10/2018	NA	32.44	0.00	4836.46
			12/27/2018	NA	32.45	0.00	4836.45
MW-31	4858.2	31.41	6/11/2018	NA	DRY	0.00	
			9/10/2018	NA	DRY	0.00	
			12/27/2018	NA	DRY	0.00	

NA - Not Applicable

NG - Not Gauged

DTW - Depth to Water

ft btoc - Feet Below Top of Casing

ft amsl - Feet Above Mean Sea Level



Table 4 - PSH Removal

Whiting Oil and Gas Corporation  
Nelson C-1  
Weld County, Colorado

Well ID	Cumulative PSH Recovered (gallons)
MW-1	0.13
MW-2	0.44
MW-3	51.18
MW-4	0.00
MW-5	34.37
MW-6	47.03
MW-7	49.67
MW-17	91.92
MW-20	167.33
MW-21	7.70
MW-22	0.00
MW-23	10.99
MW-24	0.03
MW-25	0.00
MW-26	0.00
MW-27	38.54
<b>Site Total</b>	<b>499.32</b>
PSH - Phase Separated Hydrocarbons	
Table does not account for approximately 200 gallons of free product recovered using the skimmer pump system	

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

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 23, 2018

Jennifer Galles  
Talon/LPE  
1811 E Mulberry  
Ft Collins, CO 80524  
RE: Nelson C1

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/18 16:03. 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: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1803216-01	Water	03/16/18 12:15	03/16/18 16:03
MW-2	1803216-02	Water	03/16/18 12:18	03/16/18 16:03
MW-4	1803216-03	Water	03/16/18 12:13	03/16/18 16:03
MW-6	1803216-04	Water	03/16/18 12:23	03/16/18 16:03
MW-8	1803216-05	Water	03/16/18 12:10	03/16/18 16:03
MW-9	1803216-06	Water	03/16/18 10:47	03/16/18 16:03
MW-10	1803216-07	Water	03/16/18 11:59	03/16/18 16:03
MW-11	1803216-08	Water	03/16/18 11:23	03/16/18 16:03
MW-12	1803216-09	Water	03/16/18 11:08	03/16/18 16:03
MW-13	1803216-10	Water	03/16/18 11:04	03/16/18 16:03
MW-14	1803216-11	Water	03/16/18 11:00	03/16/18 16:03
MW-15	1803216-12	Water	03/16/18 10:53	03/16/18 16:03
MW-16	1803216-13	Water	03/16/18 12:07	03/16/18 16:03
MW-18	1803216-14	Water	03/16/18 11:28	03/16/18 16:03
MW-19	1803216-15	Water	03/16/18 11:18	03/16/18 16:03
MW-22	1803216-16	Water	03/16/18 12:03	03/16/18 16:03
Dup	1803216-17	Water	03/16/18 00:00	03/16/18 16:03

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: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/23/18 10:42

# Summit Scientific

1803216.1

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

Page 1 of 2 #4

Client: Talon/LPE - Bill Whiting	Project Manager: Jennifer Galles
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com and jgalles@talonlpe.com
City/State/Zip: Fort Collins, CO 80525	Project Name: Nelson C1
Phone: 970-818-5330 Fax:	Project Number: 701530.020.11
Sampler Name: Jason Leverton	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX					
MW-1	3/16/2018	1215	3	x				x									
MW-2	3/16/2018	1218	3	x				x									
MW-4	3/16/2018	1213	3	x				x									
MW-6	3/16/2018	1223	3	x				x									
MW-8	3/16/2018	1210	3	x				x									
MW-9	3/16/2018	1047	3	x				x									
MW-10	3/16/2018	1159	3	x				x									
MW-11	3/16/2018	1123	3	x				x									
MW-12	3/16/2018	1108	3	x				x									
MW-13	3/16/2018	1104	3	x				x									
Relinquished by:		Date/Time: 3/16/18 16:03	Received by:		Date/Time: 3/16/18 1603	Turn Around Time (Check)				Notes:							
Relinquished by:		Date/Time:	Received by:		Date/Time:	Same Day <input type="checkbox"/>				72 Hours <input type="checkbox"/>							
Relinquished by:		Date/Time:	Received by:		Date/Time:	24 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>							
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	48 Hours <input type="checkbox"/>				Sample Integrity:							
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	Temperature Upon Receipt: 19.4°C				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

www.s2scientific.com



S2

Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/23/18 10:42

Sample Receipt Checklist

S2 Work Order: 1803216  
Client: Talon/LPE Client Project ID: Nelson C1  
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)	19.4				

Thermometer ID: 61857155-K

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

Additional Comments (if any):

<sup>(1)</sup> 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

3/26/18 1730  
Date/Time

[Signature]



Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-1**  
**1803216-01 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>910</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6000</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.8 %	45-146		"	"	"	"	

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-2**  
**1803216-02 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>13000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>12000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1100</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>7600</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.3 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		87.5 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.7 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-4**  
**1803216-03 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8400</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>9800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>860</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.3 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	45-146		"	"	"	"	

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-6**  
**1803216-04 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>10000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>9900</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1100</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-8**  
**1803216-05 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>13000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>740</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.0 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %	45-146		"	"	"	"	

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-9**  
**1803216-06 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 10:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3.5</b>	1.0	ug/l	1	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>8.5</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>9.9</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 10:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.9 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-10**  
**1803216-07 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1.6</b>	1.0	ug/l	1	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.1</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.8 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	45-146		"	"	"	"	

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 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-11**  
**1803216-08 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5.3</b>	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>4.1</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4.3</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.1 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.3 %	45-146		"	"	"	"	

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1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-12**  
**1803216-09 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-13**  
**1803216-10 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-14**  
**1803216-11 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1600</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>53</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>200</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>380</b>	200	"	100	"	"	"	"	

Date Sampled: **03/16/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.6 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-15**  
**1803216-12 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3200</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>2400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>600</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4100</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.6 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	45-146		"	"	"	"	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-16**  
**1803216-13 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>860</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5200</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.5 %	45-146		"	"	"	"	

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-18**  
**1803216-14 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>420</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>61</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>8.1</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>40</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.7 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	45-146		"	"	"	"	

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**MW-19**  
**1803216-15 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/22/18	03/22/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

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1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**MW-22**  
**1803216-16 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3000</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>6800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>560</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4000</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.0 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.6 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	45-146		"	"	"	"	

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 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/23/18 10:42

**Dup**  
**1803216-17 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1900</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>1500</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>320</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2400</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.5 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.7 %	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: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/23/18 10:42

### 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 1803232 - EPA 5030 Water MS

##### Blank (1803232-BLK1)

Prepared & Analyzed: 03/20/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	10.9		"	13.3		81.5	37-154			
Surrogate: Toluene-d8	11.4		"	13.3		85.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	45-146			

##### LCS (1803232-BS1)

Prepared & Analyzed: 03/20/18

Benzene	30.0	1.0	ug/l	33.3		90.0	51-132			
Toluene	32.4	1.0	"	33.3		97.4	51-138			
Ethylbenzene	33.9	1.0	"	33.1		102	58-146			
m,p-Xylene	66.8	2.0	"	66.5		100	57-144			
o-Xylene	32.7	1.0	"	32.7		100	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.3	37-154			
Surrogate: Toluene-d8	13.9		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.1	45-146			

##### Matrix Spike (1803232-MS1)

Source: 1803216-01

Prepared & Analyzed: 03/20/18

Benzene	30.7	1.0	ug/l	33.3	11400	NR	34-141			
Toluene	32.7	1.0	"	33.3	10600	NR	27-151			
Ethylbenzene	36.9	1.0	"	33.1	907	NR	29-160			
m,p-Xylene	72.4	2.0	"	66.5	4240	NR	20-166			
o-Xylene	35.4	1.0	"	32.7	1790	NR	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.1	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	45-146			

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

**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 1803232 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1803232-MSD1)</b>	<b>Source: 1803216-01</b>			<b>Prepared &amp; Analyzed: 03/20/18</b>					
Benzene	32.1	1.0	ug/l	33.3	11400	NR	34-141	4.49	32
Toluene	35.2	1.0	"	33.3	10600	NR	27-151	7.25	25
Ethylbenzene	39.2	1.0	"	33.1	907	NR	29-160	6.17	50
m,p-Xylene	77.6	2.0	"	66.5	4240	NR	20-166	6.84	36
o-Xylene	38.2	1.0	"	32.7	1790	NR	33-159	7.51	26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>93.2</i>	<i>37-154</i>		
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.6</i>	<i>45-149</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.4</i>	<i>45-146</i>		

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/23/18 10:42

### 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

March 29, 2018

Jennifer Galles  
Talon/LPE  
1811 E Mulberry  
Ft Collins, CO 80524  
RE: Nelson C1

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/18 16:03. 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: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1803216-01	Water	03/16/18 12:15	03/16/18 16:03
MW-2	1803216-02	Water	03/16/18 12:18	03/16/18 16:03
MW-4	1803216-03	Water	03/16/18 12:13	03/16/18 16:03
MW-6	1803216-04	Water	03/16/18 12:23	03/16/18 16:03
MW-8	1803216-05	Water	03/16/18 12:10	03/16/18 16:03
MW-9	1803216-06	Water	03/16/18 10:47	03/16/18 16:03
MW-10	1803216-07	Water	03/16/18 11:59	03/16/18 16:03
MW-11	1803216-08	Water	03/16/18 11:23	03/16/18 16:03
MW-12	1803216-09	Water	03/16/18 11:08	03/16/18 16:03
MW-13	1803216-10	Water	03/16/18 11:04	03/16/18 16:03
MW-14	1803216-11	Water	03/16/18 11:00	03/16/18 16:03
MW-15	1803216-12	Water	03/16/18 10:53	03/16/18 16:03
MW-16	1803216-13	Water	03/16/18 12:07	03/16/18 16:03
MW-18	1803216-14	Water	03/16/18 11:28	03/16/18 16:03
MW-19	1803216-15	Water	03/16/18 11:18	03/16/18 16:03
MW-22	1803216-16	Water	03/16/18 12:03	03/16/18 16:03
Dup	1803216-17	Water	03/16/18 00:00	03/16/18 16:03

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/29/18 15:01

# Summit Scientific

1803216.1

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

Page 1 of 2 #4

Client: Talon/LPE - Bill Whiting	Project Manager: Jennifer Galles
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com and jgalles@talonlpe.com
City/State/Zip: Fort Collins, CO 80525	Project Name: Nelson C1
Phone: 970-818-5330 Fax:	Project Number: 701530.020.11
Sampler Name: Jason Leverton	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX					
MW-1	3/16/2018	1215	3	x				x									
MW-2	3/16/2018	1218	3	x				x									
MW-4	3/16/2018	1213	3	x				x									
MW-6	3/16/2018	1223	3	x				x									
MW-8	3/16/2018	1210	3	x				x									
MW-9	3/16/2018	1047	3	x				x									
MW-10	3/16/2018	1159	3	x				x									
MW-11	3/16/2018	1123	3	x				x									
MW-12	3/16/2018	1108	3	x				x									
MW-13	3/16/2018	1104	3	x				x									
Relinquished by:		Date/Time: 3/16/18 16:03	Received by:		Date/Time: 3/16/18 1603	Turn Around Time (Check)		Notes:									
Relinquished by:		Date/Time:	Received by:		Date/Time:	Same Day <input type="checkbox"/>		72 Hours <input type="checkbox"/>									
Relinquished by:		Date/Time:	Received by:		Date/Time:	24 Hours <input type="checkbox"/>		Standard <input checked="" type="checkbox"/>									
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	48 Hours <input type="checkbox"/>		Sample Integrity:									
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	Temperature Upon Receipt: 19.4°C		Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

www.s2scientific.com



S2

Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/29/18 15:01

Sample Receipt Checklist

S2 Work Order: 1803216  
Client: Talon/LPE Client Project ID: Nelson C1  
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)	19.4				

Thermometer ID: 61857155-K

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

Additional Comments (if any):

<sup>(1)</sup> 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

3/29/18 1730  
Date/Time

[Signature]



Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-1**  
**1803216-01 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>910</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6000</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.8 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-2**  
**1803216-02 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>13000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>12000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1100</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>7600</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.3 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		87.5 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.7 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-4**  
**1803216-03 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8400</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>9800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>860</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.3 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-6**  
**1803216-04 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>10000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>9900</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1100</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-8**  
**1803216-05 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>13000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>740</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6900</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.0 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-9**  
**1803216-06 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 10:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3.5</b>	1.0	ug/l	1	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>8.5</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>9.9</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 10:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.9 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-10**  
**1803216-07 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1.6</b>	1.0	ug/l	1	1803232	03/20/18	03/20/18	EPA 8260B	
<b>Toluene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.1</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.8 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-11**  
**1803216-08 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5.3</b>	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>4.1</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4.3</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.1 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.3 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-12**  
**1803216-09 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.4 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-13**  
**1803216-10 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/21/18	03/21/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-14**  
**1803216-11 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1600</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>53</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>200</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>380</b>	200	"	100	"	"	"	"	

Date Sampled: **03/16/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.6 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-15**  
**1803216-12 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2500</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>1800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>510</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3700</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.6 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-16**  
**1803216-13 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1803232	03/21/18	03/21/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>860</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5200</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.5 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**MW-18**  
**1803216-14 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>420</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>61</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>8.1</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>40</b>	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.7 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-19**  
**1803216-15 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803232	03/22/18	03/22/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **03/16/18 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**MW-22**  
**1803216-16 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3000</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>6800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>560</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4000</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.0 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.6 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 E Mulberry  
 Ft Collins CO, 80524

Project: Nelson C1  
 Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 03/29/18 15:01

**Dup**  
**1803216-17 (Water)**

**Summit Scientific**

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

Date Sampled: **03/16/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2700</b>	100	ug/l	100	1803232	03/22/18	03/22/18	EPA 8260B	
<b>Toluene</b>	<b>2200</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>570</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4200</b>	200	"	"	"	"	"	"	

Date Sampled: **03/16/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.5 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.7 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
03/29/18 15:01

### 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 1803232 - EPA 5030 Water MS

##### Blank (1803232-BLK1)

Prepared & Analyzed: 03/20/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	10.9		"	13.3		81.5	37-154			
Surrogate: Toluene-d8	11.4		"	13.3		85.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	45-146			

##### LCS (1803232-BS1)

Prepared & Analyzed: 03/20/18

Benzene	30.0	1.0	ug/l	33.3		90.0	51-132			
Toluene	32.4	1.0	"	33.3		97.4	51-138			
Ethylbenzene	33.9	1.0	"	33.1		102	58-146			
m,p-Xylene	66.8	2.0	"	66.5		100	57-144			
o-Xylene	32.7	1.0	"	32.7		100	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.3	37-154			
Surrogate: Toluene-d8	13.9		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.1	45-146			

##### Matrix Spike (1803232-MS1)

Source: 1803216-01

Prepared & Analyzed: 03/20/18

Benzene	30.7	1.0	ug/l	33.3	11400	NR	34-141			
Toluene	32.7	1.0	"	33.3	10600	NR	27-151			
Ethylbenzene	36.9	1.0	"	33.1	907	NR	29-160			
m,p-Xylene	72.4	2.0	"	66.5	4240	NR	20-166			
o-Xylene	35.4	1.0	"	32.7	1790	NR	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.1	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	45-146			

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

**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 1803232 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1803232-MSD1)</b>	<b>Source: 1803216-01</b>			<b>Prepared &amp; Analyzed: 03/20/18</b>					
Benzene	32.1	1.0	ug/l	33.3	11400	NR	34-141	4.49	32
Toluene	35.2	1.0	"	33.3	10600	NR	27-151	7.25	25
Ethylbenzene	39.2	1.0	"	33.1	907	NR	29-160	6.17	50
m,p-Xylene	77.6	2.0	"	66.5	4240	NR	20-166	6.84	36
o-Xylene	38.2	1.0	"	32.7	1790	NR	33-159	7.51	26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>93.2</i>	<i>37-154</i>		
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.6</i>	<i>45-149</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.4</i>	<i>45-146</i>		

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Nelson C1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
03/29/18 15:01

### 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

June 19, 2018

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/18 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-02	1806151-01	Water	06/12/18 11:15	06/12/18 15:35
MW-04	1806151-02	Water	06/12/18 12:13	06/12/18 15:35
MW-06	1806151-03	Water	06/12/18 11:07	06/12/18 15:35
MW-08	1806151-04	Water	06/12/18 10:27	06/12/18 15:35
MW-09	1806151-05	Water	06/12/18 12:08	06/12/18 15:35
MW-10	1806151-06	Water	06/12/18 11:32	06/12/18 15:35
MW-11	1806151-07	Water	06/12/18 10:57	06/12/18 15:35
MW-12	1806151-08	Water	06/12/18 10:45	06/12/18 15:35
MW-13	1806151-09	Water	06/12/18 10:42	06/12/18 15:35
MW-14	1806151-10	Water	06/12/18 10:37	06/12/18 15:35
MW-16	1806151-11	Water	06/12/18 11:23	06/12/18 15:35
MW-18	1806151-12	Water	06/12/18 11:03	06/12/18 15:35
MW-19	1806151-13	Water	06/12/18 10:52	06/12/18 15:35
MW-22	1806151-14	Water	06/12/18 11:37	06/12/18 15:35
MW-24	1806151-15	Water	06/12/18 11:45	06/12/18 15:35
MW-25	1806151-16	Water	06/12/18 11:53	06/12/18 15:35
MW-26	1806151-17	Water	06/12/18 11:58	06/12/18 15:35
MW-28	1806151-18	Water	06/12/18 09:20	06/12/18 15:35
MW-30	1806151-19	Water	06/12/18 09:05	06/12/18 15:35
Dup-A	1806151-20	Water	06/12/18 11:00	06/12/18 15:35
Dup-B	1806151-21	Water	06/12/18 10:40	06/12/18 15:35
Dup-C	1806151-22	Water	06/12/18 11:26	06/12/18 15:35

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.*







**Sample Receipt Checklist**

S2 Work Order: 1806151

Client: TALON CPE Client Project ID: NELSON G1

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

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

Temp (°C)	9.5
-----------	-----

Thermometer ID: 61857155-K

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

WP  
Custodian Printed Name or Initials

[Signature]  
Signature or Initials of Custodian

6.12.18 1632  
Date/Time



Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-02**  
**1806151-01 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>7500</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>6400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>520</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2900</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %		23-173	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		20-170	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %		21-167	"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-04**  
**1806151-02 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8100</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>7800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>660</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3000</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-06**  
**1806151-03 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>6100</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>5100</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>530</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3800</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-08**  
**1806151-04 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>12000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>670</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3700</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-09**  
**1806151-05 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-10**  
**1806151-06 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-11**  
**1806151-07 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-12**  
**1806151-08 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-13**  
**1806151-09 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.3 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-14**  
**1806151-10 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1500</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>380</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>180</b>	1.0	"	1	"	"	"	"	
<b>Xylenes (total)</b>	<b>210</b>	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:37**

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

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-16**  
**1806151-11 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>9600</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>9400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>740</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3000</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-18**  
**1806151-12 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>230</b>	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>35</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>4.4</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>35</b>	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-19**  
**1806151-13 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-22**  
**1806151-14 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2600</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>5600</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>510</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2300</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:37**

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

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-24**  
**1806151-15 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>4600</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>9300</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>210</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2900</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.0 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-25**  
**1806151-16 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2200</b>	100	ug/l	100	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>5800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>180</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2200</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.9 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**MW-26**  
**1806151-17 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>23-173</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>99.7 %</i>	<i>20-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>21-167</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 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-28**  
**1806151-18 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**MW-30**  
**1806151-19 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**Dup-A**  
**1806151-20 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1806192	06/13/18	06/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %	21-167		"	"	"	"	

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 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

**Dup-B**  
**1806151-21 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1100</b>	10	ug/l	10	1806219	06/14/18	06/15/18	EPA 8260B	
<b>Toluene</b>	<b>43</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>170</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>210</b>	2.0	"	"	"	"	"	"	

Date Sampled: **06/12/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		125 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.12  
 Project Manager: Jennifer Galles

**Reported:**  
 06/19/18 14:52

**Dup-C**  
**1806151-22 (Water)**

**Summit Scientific**

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

Date Sampled: **06/12/18 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8300</b>	100	ug/l	100	1806219	06/14/18	06/16/18	EPA 8260B	
<b>Toluene</b>	<b>8300</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>660</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2700</b>	200	"	"	"	"	"	"	

Date Sampled: **06/12/18 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

Reported:  
06/19/18 14:52

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch 1806192 - EPA 5030 Water MS

##### Blank (1806192-BLK1)

Prepared: 06/13/18 Analyzed: 06/15/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.4	21-167			

##### LCS (1806192-BS1)

Prepared: 06/13/18 Analyzed: 06/15/18

Benzene	31.9	1.0	ug/l	33.3		95.7	70-130			
Toluene	33.8	1.0	"	33.3		101	70-130			
Ethylbenzene	37.0	1.0	"	33.3		111	70-130			
m,p-Xylene	68.5	2.0	"	66.7		103	70-130			
o-Xylene	33.6	1.0	"	33.3		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.2		108	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.0	21-167			

##### Matrix Spike (1806192-MS1)

Source: 1806151-20

Prepared: 06/13/18 Analyzed: 06/16/18

Benzene	32.6	1.0	ug/l	33.3	ND	97.9	70-130			
Toluene	36.6	1.0	"	33.3	ND	110	70-130			
Ethylbenzene	35.9	1.0	"	33.3	ND	108	70-130			
m,p-Xylene	75.9	2.0	"	66.7	ND	114	70-130			
o-Xylene	34.9	1.0	"	33.3	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.2		113	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

Reported:  
06/19/18 14:52

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

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

**Batch 1806192 - EPA 5030 Water MS**

Matrix Spike Dup (1806192-MSD1)	Source: 1806151-20			Prepared: 06/13/18		Analyzed: 06/16/18			
Benzene	28.1	1.0	ug/l	33.3	ND	84.2	70-130	15.1	30
Toluene	29.4	1.0	"	33.3	ND	88.1	70-130	21.8	30
Ethylbenzene	33.0	1.0	"	33.3	ND	98.9	70-130	8.54	30
m,p-Xylene	71.7	2.0	"	66.7	ND	108	70-130	5.72	30
o-Xylene	31.0	1.0	"	33.3	ND	93.0	70-130	11.9	30
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.2		118	23-173		
Surrogate: Toluene-d8	13.2		"	13.3		98.8	20-170		
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	21-167		

**Batch 1806219 - EPA 5030 Water MS**

Blank (1806219-BLK1)				Prepared: 06/14/18		Analyzed: 06/16/18			
Benzene	ND	1.0	ug/l						
Toluene	ND	1.0	"						
Ethylbenzene	ND	1.0	"						
Xylenes (total)	ND	2.0	"						
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		106	23-173		
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170		
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167		
LCS (1806219-BS1)				Prepared: 06/14/18		Analyzed: 06/16/18			
Benzene	26.8	1.0	ug/l	33.3		80.3	70-130		
Toluene	29.0	1.0	"	33.3		86.9	70-130		
Ethylbenzene	33.4	1.0	"	33.3		100	70-130		
m,p-Xylene	62.4	2.0	"	66.7		93.6	70-130		
o-Xylene	31.6	1.0	"	33.3		94.7	70-130		
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2		105	23-173		
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170		
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167		

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

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

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

**Batch 1806219 - EPA 5030 Water MS**

<b>Matrix Spike (1806219-MS1)</b>	<b>Source: 1806150-01</b>			Prepared: 06/14/18		Analyzed: 06/16/18					
Benzene	821	1.0	ug/l	33.3	1410	NR	70-130				E
Toluene	337	1.0	"	33.3	362	NR	70-130				E
Ethylbenzene	86.1	1.0	"	33.3	58.1	84.1	70-130				
m,p-Xylene	188	2.0	"	66.7	135	79.2	70-130				
o-Xylene	220	1.0	"	33.3	198	64.7	70-130				E
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.0</i>		<i>"</i>	<i>13.2</i>		<i>114</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>21-167</i>				

<b>Matrix Spike Dup (1806219-MSD1)</b>	<b>Source: 1806150-01</b>			Prepared: 06/14/18		Analyzed: 06/16/18					
Benzene	694	1.0	ug/l	33.3	1410	NR	70-130	16.7	30		E
Toluene	266	1.0	"	33.3	362	NR	70-130	23.4	30		E
Ethylbenzene	72.5	1.0	"	33.3	58.1	43.1	70-130	17.2	30		QM-07
m,p-Xylene	156	2.0	"	66.7	135	31.5	70-130	18.5	30		QM-07
o-Xylene	175	1.0	"	33.3	198	NR	70-130	22.7	30		QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>16.2</i>		<i>"</i>	<i>13.2</i>		<i>123</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.7</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>21-167</i>				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.12  
Project Manager: Jennifer Galles

**Reported:**  
06/19/18 14:52

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 07, 2018

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 05/31/18 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-29@25-30'	1805385-01	Soil	05/31/18 10:50	05/31/18 15:30
MW-29@30-35'	1805385-02	Soil	05/31/18 10:59	05/31/18 15:30
MW-29@35-40'	1805385-03	Soil	05/31/18 11:20	05/31/18 15:30
MW-29@42-45'	1805385-04	Soil	05/31/18 11:30	05/31/18 15:30

Summit Scientific

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**Sample Receipt Checklist**

S2 Work Order: 1805385

Client: TALON/WATINA Client Project ID: Nelson C-1

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

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

Temp (°C) 16.0

Thermometer ID: 61857155-K

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

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

UP  
Custodian Printed Name or Initials

[Signature]  
Signature or Initials of Custodian

5/20/18 1620  
Date/Time



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
06/07/18 19:00

**MW-29@25-30'**  
**1805385-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/31/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/31/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806056	06/05/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.6 %	30-150		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

**MW-29@30-35'**  
**1805385-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/31/18 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/31/18 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806056	06/05/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.4 %	30-150		"	"	"	"	

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 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

**MW-29@35-40'**  
**1805385-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/31/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/31/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806056	06/05/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.7 %	30-150		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

**MW-29@42-45'**  
**1805385-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/31/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/31/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806056	06/05/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.3 %	30-150		"	"	"	"	

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

Reported:  
06/07/18 19:00

### 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 1806019 - EPA 5030 Soil MS

##### Blank (1806019-BLK1)

Prepared: 06/01/18 Analyzed: 06/03/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0396		108	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

##### LCS (1806019-BS1)

Prepared: 06/01/18 Analyzed: 06/03/18

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.194	0.010	"	0.200		96.9	70-130			
o-Xylene	0.0996	0.0050	"	0.100		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0396		104	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	21-167			

##### Matrix Spike (1806019-MS1)

Source: 1805382-01

Prepared: 06/01/18 Analyzed: 06/07/18

Benzene	0.0975	0.0020	mg/kg	0.100	ND	97.5	70-130			
Toluene	0.100	0.0050	"	0.100	ND	100	70-130			
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
m,p-Xylene	0.279	0.010	"	0.200	ND	139	70-130			QM-07
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0396		108	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

**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 1806019 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1806019-MSD1)</b>	<b>Source: 1805382-01</b>			Prepared: 06/01/18		Analyzed: 06/07/18				
Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130	3.92	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	4.47	30	
Ethylbenzene	0.130	0.0050	"	0.100	ND	130	70-130	4.34	30	
m,p-Xylene	0.283	0.010	"	0.200	ND	141	70-130	1.43	30	QM-07
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	4.66	30	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0396		108	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	21-167			

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.11  
 Project Manager: Jennifer Galles

**Reported:**  
 06/07/18 19:00

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1806056 - EPA 3550A**

<b>Blank (1806056-BLK1)</b>		Prepared: 06/05/18 Analyzed: 06/06/18								
C10-C28 (DRO)	ND	50	mg/kg							
<b>LCS (1806056-BS1)</b>		Prepared: 06/05/18 Analyzed: 06/06/18								
C10-C28 (DRO)	394	50	mg/kg	500	42.9	78.9	70-130			
<b>Matrix Spike (1806056-MS1)</b>		Source: 1805336-01 Prepared: 06/05/18 Analyzed: 06/06/18								
C10-C28 (DRO)	422	50	mg/kg	500	42.9	75.9	70-130			
<b>Matrix Spike Dup (1806056-MSD1)</b>		Source: 1805336-01 Prepared: 06/05/18 Analyzed: 06/06/18								
C10-C28 (DRO)	406	50	mg/kg	500	42.9	72.6	70-130	3.94	20	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.11  
Project Manager: Jennifer Galles

**Reported:**  
06/07/18 19:00

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

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4653 Table Mountain Drive, Golden, Colorado 80403

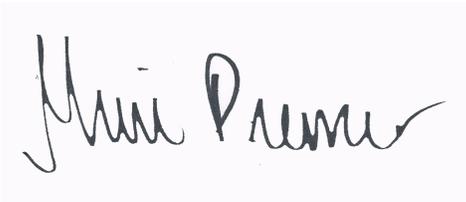
303.277.9310

October 15, 2018

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 09/12/18 16:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature reads "Muri Premer" in a cursive, flowing script.

Muri Premer For Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	1809155-01	Water	09/11/18 13:16	09/12/18 16:13
MW-4	1809155-02	Water	09/11/18 12:58	09/12/18 16:13
MW-8	1809155-03	Water	09/11/18 13:19	09/12/18 16:13
MW-9	1809155-04	Water	09/11/18 12:54	09/12/18 16:13
MW-10	1809155-05	Water	09/11/18 12:19	09/12/18 16:13
MW-11	1809155-06	Water	09/11/18 12:10	09/12/18 16:13
MW-12	1809155-07	Water	09/11/18 12:03	09/12/18 16:13
MW-13	1809155-08	Water	09/11/18 11:54	09/12/18 16:13
MW-14	1809155-09	Water	09/11/18 11:57	09/12/18 16:13
MW-16	1809155-10	Water	09/11/18 13:23	09/12/18 16:13
MW-18	1809155-11	Water	09/11/18 12:15	09/12/18 16:13
MW-19	1809155-12	Water	09/11/18 12:06	09/12/18 16:13
MW-21	1809155-13	Water	09/11/18 13:29	09/12/18 16:13
MW-22	1809155-14	Water	09/11/18 13:33	09/12/18 16:13
MW-24	1809155-15	Water	09/11/18 13:39	09/12/18 16:13
MW-25	1809155-16	Water	09/11/18 12:50	09/12/18 16:13
MW-26	1809155-17	Water	09/11/18 12:43	09/12/18 16:13
MW-28	1809155-18	Water	09/11/18 12:27	09/12/18 16:13
MW-30	1809155-19	Water	09/11/18 13:37	09/12/18 16:13
Dup-A	1809155-20	Water	09/11/18 12:13	09/12/18 16:13
Dup-B	1809155-21	Water	09/11/18 12:00	09/12/18 16:13
Dup-C	1809155-22	Water	09/11/18 13:27	09/12/18 16:13

Summit Scientific

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1809155

Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: Talco/LPE - Whiting Client Project ID: Nelson C-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other P.U. Airbill #: \_\_\_\_\_

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

Temp (°C)	11.3
-----------	------

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

W  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

9.12.18 1713  
Date/Time



Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-2**  
**1809155-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>7300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>4500</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>650</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5600</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-4**  
**1809155-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>8000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>940</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5500</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-8**  
**1809155-03 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>12000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>760</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5800</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-9**  
**1809155-04 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		88.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.7 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**MW-10**  
**1809155-05 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-11**  
**1809155-06 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**MW-12**  
**1809155-07 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-13**  
**1809155-08 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-14**  
**1809155-09 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1400</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>36</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>180</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>240</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**MW-16**  
**1809155-10 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8800</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>9100</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>850</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5200</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**MW-18**  
**1809155-11 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>73</b>	1.0	ug/l	1	1809148	09/14/18	09/19/18	EPA 8260B	
<b>Toluene</b>	<b>4.5</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>11</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.3 %	21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-19**  
**1809155-12 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-21**  
**1809155-13 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8100</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>14000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1600</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>7700</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		149 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-22**  
**1809155-14 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3000</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>8400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>940</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5900</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-24**  
**1809155-15 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>9900</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>730</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4900</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.9 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-25**  
**1809155-16 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3100</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>6600</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>540</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5300</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-26**  
**1809155-17 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %		21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-28**  
**1809155-18 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %		21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**MW-30**  
**1809155-19 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 13:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**Dup-A**  
**1809155-20 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %		21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**Dup-B**  
**1809155-21 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>530</b>	10	ug/l	10	1809140	09/14/18	09/19/18	EPA 8260B	
<b>Toluene</b>	<b>28</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>150</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>190</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 10/15/18 15:31

**Dup-C**  
**1809155-22 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>9500</b>	100	ug/l	100	1809140	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>730</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5100</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	21-167		"	"	"	"	

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

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

**Summit Scientific**

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

**Batch 1809140 - EPA 5030 Water MS**

**Blank (1809140-BLK1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		96.8	23-173				
Surrogate: Toluene-d8	12.8		"	13.3		96.1	20-170				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	21-167				

**LCS (1809140-BS1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	31.5	1.0	ug/l	33.3		94.6	70-130				
Toluene	35.3	1.0	"	33.3		106	70-130				
Ethylbenzene	36.0	1.0	"	33.3		108	70-130				
m,p-Xylene	72.2	2.0	"	66.7		108	70-130				
o-Xylene	36.2	1.0	"	33.3		109	70-130				
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.9	23-173				
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.6	21-167				

**Matrix Spike (1809140-MS1)**

Source: 1809148-01

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	31.5	1.0	ug/l	33.3	ND	94.4	70-130				
Toluene	34.6	1.0	"	33.3	ND	104	70-130				
Ethylbenzene	37.7	1.0	"	33.3	ND	113	70-130				
m,p-Xylene	75.7	2.0	"	66.7	ND	114	70-130				
o-Xylene	37.3	1.0	"	33.3	ND	112	70-130				
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	23-173				
Surrogate: Toluene-d8	12.9		"	13.3		96.7	20-170				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.2	21-167				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**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 1809140 - EPA 5030 Water MS**

**Matrix Spike Dup (1809140-MSD1)**

Source: 1809148-01

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	30.0	1.0	ug/l	33.3	ND	89.9	70-130	4.98	30	
Toluene	33.0	1.0	"	33.3	ND	98.9	70-130	4.68	30	
Ethylbenzene	35.6	1.0	"	33.3	ND	107	70-130	5.56	30	
m,p-Xylene	72.8	2.0	"	66.7	ND	109	70-130	3.82	30	
o-Xylene	35.9	1.0	"	33.3	ND	108	70-130	3.80	30	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.6	21-167			

**Batch 1809148 - EPA 5030 Water MS**

**Blank (1809148-BLK1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.8	23-173			
Surrogate: Toluene-d8	12.3		"	13.3		92.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.0	21-167			

**LCS (1809148-BS1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	28.8	1.0	ug/l	33.3		86.3	70-130			
Toluene	29.0	1.0	"	33.3		87.0	70-130			
Ethylbenzene	35.2	1.0	"	33.3		106	70-130			
m,p-Xylene	69.4	2.0	"	66.7		104	70-130			
o-Xylene	30.6	1.0	"	33.3		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		99.3	23-173			
Surrogate: Toluene-d8	12.4		"	13.3		93.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

**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 1809148 - EPA 5030 Water MS**

<b>Matrix Spike (1809148-MS1)</b>	<b>Source: 1809155-01</b>			Prepared: 09/14/18 Analyzed: 09/16/18							
Benzene	1220	1.0	ug/l	33.3	7250	NR	70-130				QM-07
Toluene	1150	1.0	"	33.3	4460	NR	70-130				QM-07
Ethylbenzene	337	1.0	"	33.3	646	NR	70-130				QM-07
m,p-Xylene	1550	2.0	"	66.7	4080	NR	70-130				QM-07
o-Xylene	845	1.0	"	33.3	1530	NR	70-130				QM-07
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.2		122	23-173				
Surrogate: Toluene-d8	12.2		"	13.3		91.6	20-170				
Surrogate: 4-Bromofluorobenzene	16.0		"	13.3		120	21-167				

<b>Matrix Spike Dup (1809148-MSD1)</b>	<b>Source: 1809155-01</b>			Prepared: 09/14/18 Analyzed: 09/16/18							
Benzene	1150	1.0	ug/l	33.3	7250	NR	70-130	5.89	30		QM-07
Toluene	1070	1.0	"	33.3	4460	NR	70-130	7.48	30		QM-07
Ethylbenzene	309	1.0	"	33.3	646	NR	70-130	8.71	30		QM-07
m,p-Xylene	1450	2.0	"	66.7	4080	NR	70-130	6.55	30		QM-07
o-Xylene	766	1.0	"	33.3	1530	NR	70-130	9.88	30		QM-07
Surrogate: 1,2-Dichloroethane-d4	5.18		"	13.2		39.2	23-173				
Surrogate: Toluene-d8	12.4		"	13.3		92.6	20-170				
Surrogate: 4-Bromofluorobenzene	15.2		"	13.3		114	21-167				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
10/15/18 15:31

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 19, 2018

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 09/12/18 16:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	1809155-01	Water	09/11/18 13:16	09/12/18 16:13
MW-4	1809155-02	Water	09/11/18 12:58	09/12/18 16:13
MW-8	1809155-03	Water	09/11/18 13:19	09/12/18 16:13
MW-9	1809155-04	Water	09/11/18 12:54	09/12/18 16:13
MW-10	1809155-05	Water	09/11/18 12:19	09/12/18 16:13
MW-11	1809155-06	Water	09/11/18 12:10	09/12/18 16:13
MW-12	1809155-07	Water	09/11/18 12:03	09/12/18 16:13
MW-13	1809155-08	Water	09/11/18 11:54	09/12/18 16:13
MW-14	1809155-09	Water	09/11/18 11:57	09/12/18 16:13
MW-16	1809155-10	Water	09/11/18 13:23	09/12/18 16:13
MW-18	1809155-11	Water	09/11/18 12:15	09/12/18 16:13
MW-19	1809155-12	Water	09/11/18 12:06	09/12/18 16:13
MW-21	1809155-13	Water	09/11/18 13:29	09/12/18 16:13
MW-22	1809155-14	Water	09/11/18 13:33	09/12/18 16:13
MW-24	1809155-15	Water	09/11/18 13:39	09/12/18 16:13
MW-25	1809155-16	Water	09/11/18 12:50	09/12/18 16:13
MW-26	1809155-17	Water	09/11/18 12:43	09/12/18 16:13
MW-28	1809155-18	Water	09/11/18 12:27	09/12/18 16:13
MW-30	1809155-19	Water	09/11/18 13:37	09/12/18 16:13
Dup-A	1809155-20	Water	09/11/18 12:13	09/12/18 16:13
Dup-B	1809155-21	Water	09/11/18 12:00	09/12/18 16:13
Dup-C	1809155-22	Water	09/11/18 13:27	09/12/18 16:13

Summit Scientific

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1809155

Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: Talco/LPE - Whiting Client Project ID: Nelson C-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other P.U. Airbill #: \_\_\_\_\_

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

Temp (°C)	11.3
-----------	------

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

W  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

9.12.18 1713  
Date/Time



Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-2**  
**1809155-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>7300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>4500</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>650</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5600</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-4**  
**1809155-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>8000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>940</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5500</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-8**  
**1809155-03 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>12000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>760</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5800</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-9**  
**1809155-04 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		88.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.7 %		21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-10**  
**1809155-05 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %		21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-11**  
**1809155-06 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-12**  
**1809155-07 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-13**  
**1809155-08 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-14**  
**1809155-09 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1400</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>36</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>180</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>240</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**MW-16**  
**1809155-10 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>88</b>	1.0	ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>9100</b>	100	"	100	"	"	"	"	
<b>Ethylbenzene</b>	<b>850</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5200</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**MW-18**  
**1809155-11 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>73</b>	1.0	ug/l	1	1809148	09/14/18	09/19/18	EPA 8260B	
<b>Toluene</b>	<b>4.5</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>11</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.3 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-19**  
**1809155-12 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-21**  
**1809155-13 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8100</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>14000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1600</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>7700</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		149 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-22**  
**1809155-14 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3000</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>8400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>940</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5900</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-24**  
**1809155-15 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5300</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>9900</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>730</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4900</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.9 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**MW-25**  
**1809155-16 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3100</b>	100	ug/l	100	1809148	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>6600</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>540</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5300</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**MW-26**  
**1809155-17 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**MW-28**  
**1809155-18 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**MW-30**  
**1809155-19 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 13:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %		21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1  
 Project Number: 701530.020.13  
 Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**Dup-A**  
**1809155-20 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1809148	09/14/18	09/18/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/11/18 12:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**Dup-B**  
**1809155-21 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>530</b>	10	ug/l	10	1809140	09/14/18	09/19/18	EPA 8260B	
<b>Toluene</b>	<b>28</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>150</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>190</b>	2.0	"	"	"	"	"	"	

Date Sampled: **09/11/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
 09/19/18 16:30

**Dup-C**  
**1809155-22 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/18 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>9500</b>	100	ug/l	100	1809140	09/14/18	09/16/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>730</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5100</b>	200	"	"	"	"	"	"	

Date Sampled: **09/11/18 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

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

**Summit Scientific**

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

**Batch 1809140 - EPA 5030 Water MS**

**Blank (1809140-BLK1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		96.8		23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.1		20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4		21-167			

**LCS (1809140-BS1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	31.5	1.0	ug/l	33.3		94.6		70-130			
Toluene	35.3	1.0	"	33.3		106		70-130			
Ethylbenzene	36.0	1.0	"	33.3		108		70-130			
m,p-Xylene	72.2	2.0	"	66.7		108		70-130			
o-Xylene	36.2	1.0	"	33.3		109		70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.9		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9		20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.6		21-167			

**Matrix Spike (1809140-MS1)**

Source: 1809148-01

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	31.5	1.0	ug/l	33.3	ND	94.4		70-130			
Toluene	34.6	1.0	"	33.3	ND	104		70-130			
Ethylbenzene	37.7	1.0	"	33.3	ND	113		70-130			
m,p-Xylene	75.7	2.0	"	66.7	ND	114		70-130			
o-Xylene	37.3	1.0	"	33.3	ND	112		70-130			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103		23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.7		20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.2		21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**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 1809140 - EPA 5030 Water MS**

**Matrix Spike Dup (1809140-MSD1)**

Source: 1809148-01

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	30.0	1.0	ug/l	33.3	ND	89.9	70-130	4.98	30	
Toluene	33.0	1.0	"	33.3	ND	98.9	70-130	4.68	30	
Ethylbenzene	35.6	1.0	"	33.3	ND	107	70-130	5.56	30	
m,p-Xylene	72.8	2.0	"	66.7	ND	109	70-130	3.82	30	
o-Xylene	35.9	1.0	"	33.3	ND	108	70-130	3.80	30	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.6	21-167			

**Batch 1809148 - EPA 5030 Water MS**

**Blank (1809148-BLK1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.8	23-173			
Surrogate: Toluene-d8	12.3		"	13.3		92.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.0	21-167			

**LCS (1809148-BS1)**

Prepared: 09/14/18 Analyzed: 09/15/18

Benzene	28.8	1.0	ug/l	33.3		86.3	70-130			
Toluene	29.0	1.0	"	33.3		87.0	70-130			
Ethylbenzene	35.2	1.0	"	33.3		106	70-130			
m,p-Xylene	69.4	2.0	"	66.7		104	70-130			
o-Xylene	30.6	1.0	"	33.3		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		99.3	23-173			
Surrogate: Toluene-d8	12.4		"	13.3		93.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13  
Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

**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 1809148 - EPA 5030 Water MS**

<b>Matrix Spike (1809148-MS1)</b>	<b>Source: 1809155-01</b>			Prepared: 09/14/18 Analyzed: 09/16/18							
Benzene	1220	1.0	ug/l	33.3	7250	NR	70-130				QM-07
Toluene	1150	1.0	"	33.3	4460	NR	70-130				QM-07
Ethylbenzene	337	1.0	"	33.3	646	NR	70-130				QM-07
m,p-Xylene	1550	2.0	"	66.7	4080	NR	70-130				QM-07
o-Xylene	845	1.0	"	33.3	1530	NR	70-130				QM-07
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.2		122	23-173				
Surrogate: Toluene-d8	12.2		"	13.3		91.6	20-170				
Surrogate: 4-Bromofluorobenzene	16.0		"	13.3		120	21-167				

<b>Matrix Spike Dup (1809148-MSD1)</b>	<b>Source: 1809155-01</b>			Prepared: 09/14/18 Analyzed: 09/16/18							
Benzene	1150	1.0	ug/l	33.3	7250	NR	70-130	5.89	30		QM-07
Toluene	1070	1.0	"	33.3	4460	NR	70-130	7.48	30		QM-07
Ethylbenzene	309	1.0	"	33.3	646	NR	70-130	8.71	30		QM-07
m,p-Xylene	1450	2.0	"	66.7	4080	NR	70-130	6.55	30		QM-07
o-Xylene	766	1.0	"	33.3	1530	NR	70-130	9.88	30		QM-07
Surrogate: 1,2-Dichloroethane-d4	5.18		"	13.2		39.2	23-173				
Surrogate: Toluene-d8	12.4		"	13.3		92.6	20-170				
Surrogate: 4-Bromofluorobenzene	15.2		"	13.3		114	21-167				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.13

Project Manager: Jennifer Galles

**Reported:**  
09/19/18 16:30

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 04, 2019

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 12/28/18 14:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-03	1812346-01	Water	12/28/18 10:40	12/28/18 14:26
MW-04	1812346-02	Water	12/28/18 10:45	12/28/18 14:26
MW-10	1812346-03	Water	12/28/18 10:53	12/28/18 14:26
MW-14	1812346-04	Water	12/28/18 10:34	12/28/18 14:26
MW-15	1812346-05	Water	12/28/18 11:00	12/28/18 14:26
MW-16	1812346-06	Water	12/28/18 11:15	12/28/18 14:26
MW-19	1812346-07	Water	12/28/18 10:42	12/28/18 14:26
MW-21	1812346-08	Water	12/28/18 10:52	12/28/18 14:26
MW-22	1812346-09	Water	12/28/18 10:42	12/28/18 14:26
MW-24	1812346-10	Water	12/28/18 10:57	12/28/18 14:26
MW-25	1812346-11	Water	12/28/18 11:01	12/28/18 14:26
DUP-B	1812346-12	Water	12/28/18 10:40	12/28/18 14:26
DUP-C	1812346-13	Water	12/28/18 11:11	12/28/18 14:26

Summit Scientific

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**Sample Receipt Checklist**

S2 Work Order 1812346

Client: Talon/LPE Client Project ID: Nelson C-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other H.D. Airbill #: \_\_\_\_\_

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

Temp (°C)	17.6
-----------	------

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

UP  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

12.28.18 1455  
Date/Time



Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-03**  
**1812346-01 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>6400</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>14000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1500</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>8800</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

**MW-04**  
**1812346-02 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8800</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>8600</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>940</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5700</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-10**  
**1812346-03 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812381	12/31/18	01/03/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/28/18 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		78.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %		21-167		"	"	"	"	

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-14**  
**1812346-04 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>860</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>61</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>120</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>170</b>	2.0	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-15**  
**1812346-05 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2200</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>3200</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>460</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4300</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

**MW-16**  
**1812346-06 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8200</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>8400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>700</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5300</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.4 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-19**  
**1812346-07 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812381	12/31/18	01/03/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/28/18 10:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		90.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-21**  
**1812346-08 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5000</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>9000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1800</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>8500</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		156 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-22**  
**1812346-09 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1500</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>2100</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>400</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2200</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.9 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

**MW-24**  
**1812346-10 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5600</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>990</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6400</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**MW-25**  
**1812346-11 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3300</b>	100	ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>3900</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>490</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5600</b>	200	"	"	"	"	"	"	

Date Sampled: **12/28/18 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/04/19 13:12

**DUP-B**  
**1812346-12 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>830</b>	100	ug/l	100	1812381	12/31/18	01/03/19	EPA 8260B	
<b>Toluene</b>	<b>64</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>140</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>210</b>	2.0	"	"	"	"	"	"	

Date Sampled: **12/28/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

**DUP-C**  
**1812346-13 (Water)**

**Summit Scientific**

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

Date Sampled: **12/28/18 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>9500</b>	100		ug/l	100	1812381	12/31/18	01/01/19	EPA 8260B	
<b>Toluene</b>	<b>9300</b>	100		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>740</b>	100		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5200</b>	200		"	"	"	"	"	"	

Date Sampled: **12/28/18 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		112 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.9 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

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

**Summit Scientific**

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

**Batch 1812381 - EPA 5030 Water MS**

**Blank (1812381-BLK1)**

Prepared: 12/31/18 Analyzed: 01/01/19

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.2		120	23-173				
Surrogate: Toluene-d8	12.8		"	13.3		95.6	20-170				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.2	21-167				

**LCS (1812381-BS1)**

Prepared: 12/31/18 Analyzed: 01/01/19

Benzene	29.6	1.0	ug/l	33.3		88.8	70-130				
Toluene	30.4	1.0	"	33.3		91.3	70-130				
Ethylbenzene	35.0	1.0	"	33.3		105	70-130				
m,p-Xylene	69.7	2.0	"	66.7		104	70-130				
o-Xylene	35.1	1.0	"	33.3		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.2		113	23-173				
Surrogate: Toluene-d8	12.7		"	13.3		95.3	20-170				
Surrogate: 4-Bromofluorobenzene	10.9		"	13.3		82.1	21-167				

**Matrix Spike (1812381-MS1)**

Source: 1812349-21

Prepared: 12/31/18 Analyzed: 01/01/19

Benzene	31.6	1.0	ug/l	33.3	ND	94.7	70-130				
Toluene	33.1	1.0	"	33.3	ND	99.4	70-130				
Ethylbenzene	35.7	1.0	"	33.3	ND	107	70-130				
m,p-Xylene	70.8	2.0	"	66.7	ND	106	70-130				
o-Xylene	34.0	1.0	"	33.3	ND	102	70-130				
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	23-173				
Surrogate: Toluene-d8	12.8		"	13.3		96.4	20-170				
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	21-167				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

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

**Summit Scientific**

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

**Batch 1812381 - EPA 5030 Water MS**

**Matrix Spike Dup (1812381-MSD1)**

Source: 1812349-21

Prepared: 12/31/18 Analyzed: 01/01/19

Benzene	31.5	1.0	ug/l	33.3	ND	94.6	70-130	0.127	30	
Toluene	31.8	1.0	"	33.3	ND	95.6	70-130	3.91	30	
Ethylbenzene	37.4	1.0	"	33.3	ND	112	70-130	4.46	30	
m,p-Xylene	70.8	2.0	"	66.7	ND	106	70-130	0.0565	30	
o-Xylene	36.0	1.0	"	33.3	ND	108	70-130	5.54	30	
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.2		116	23-173			
Surrogate: Toluene-d8	11.8		"	13.3		88.2	20-170			
Surrogate: 4-Bromofluorobenzene	15.0		"	13.3		113	21-167			

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1  
Project Number: 701530.020.14  
Project Manager: Jennifer Galles

**Reported:**  
01/04/19 13:12

### 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

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 02, 2019

Jennifer Galles  
Talon/LPE  
1811 East Mulberry  
Fort Collins, CO 80525  
RE: Nelson C-1

Enclosed are the results of analyses for samples received by Summit Scientific on 12/27/18 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury  
Laboratory Manager



Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/02/19 11:09

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1812329-01	Water	12/27/18 13:18	12/27/18 15:45
MW-2	1812329-02	Water	12/27/18 12:27	12/27/18 15:45
MW-05	1812329-03	Water	12/27/18 13:31	12/27/18 15:45
MW-06	1812329-04	Water	12/27/18 13:37	12/27/18 15:45
MW-08	1812329-05	Water	12/27/18 12:51	12/27/18 15:45
MW-9	1812329-06	Water	12/27/18 12:45	12/27/18 15:45
MW-11	1812329-07	Water	12/27/18 12:07	12/27/18 15:45
MW-12	1812329-08	Water	12/27/18 12:32	12/27/18 15:45
MW-13	1812329-09	Water	12/27/18 12:57	12/27/18 15:45
DUP-A	1812329-10	Water	12/27/18 12:43	12/27/18 15:45
MW-18	1812329-11	Water	12/27/18 12:20	12/27/18 15:45
MW-26	1812329-12	Water	12/27/18 11:50	12/27/18 15:45
MW-28	1812329-13	Water	12/27/18 12:04	12/27/18 15:45
MW-30	1812329-14	Water	12/27/18 11:45	12/27/18 15:45

Summit Scientific

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**Sample Receipt Checklist**

S2 Work Order 1812329

Client: Talon/LPE - Whiting Client Project ID: Nelson C-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other P.U. Airbill #: \_\_\_\_\_

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

Temp (°C)	8.1
-----------	-----

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

OP  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

12.27.18 1625  
Date/Time



Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-1**  
**1812329-01 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>11000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>900</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6300</b>	200	"	"	"	"	"	"	

Date Sampled: **12/27/18 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		94.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-2**  
**1812329-02 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11000</b>	100	ug/l	100	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>6500</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>780</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6600</b>	200	"	"	"	"	"	"	

Date Sampled: **12/27/18 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-05**  
**1812329-03 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 13:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>8400</b>	100	ug/l	100	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>9800</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>960</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5800</b>	200	"	"	"	"	"	"	

Date Sampled: **12/27/18 13:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-06**  
**1812329-04 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>7900</b>	100	ug/l	100	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>9100</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>570</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4200</b>	200	"	"	"	"	"	"	

Date Sampled: **12/27/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-08**  
**1812329-05 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>8400</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>710</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5400</b>	200	"	"	"	"	"	"	

Date Sampled: **12/27/18 12:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-9**  
**1812329-06 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		83.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-11**  
**1812329-07 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-12**  
**1812329-08 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %		21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
 Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-13**  
**1812329-09 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		97.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %		21-167		"	"	"	"	

Summit Scientific

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Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
01/02/19 11:09

**DUP-A**  
**1812329-10 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific

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 Fort Collins CO, 80525

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Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-18**  
**1812329-11 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>35</b>	1.0	ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
<b>Toluene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.4</b>	2.0	"	"	"	"	"	"	

Date Sampled: **12/27/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

Summit Scientific

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 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-26**  
**1812329-12 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		92.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %		21-167		"	"	"	"	

Summit Scientific

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 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-28**  
**1812329-13 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		115 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
 1811 East Mulberry  
 Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

Project Manager: Jennifer Galles

**Reported:**  
 01/02/19 11:09

**MW-30**  
**1812329-14 (Water)**

**Summit Scientific**

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

Date Sampled: **12/27/18 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1812369	12/28/18	12/29/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **12/27/18 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %		21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
Project Manager: Jennifer Galles

**Reported:**  
01/02/19 11:09

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

**Summit Scientific**

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

**Batch 1812369 - EPA 5030 Water MS**

**Blank (1812369-BLK1)**

Prepared: 12/28/18 Analyzed: 12/29/18

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.2		94.5	23-173				
Surrogate: Toluene-d8	13.8		"	13.3		103	20-170				
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.8	21-167				

**LCS (1812369-BS1)**

Prepared: 12/28/18 Analyzed: 12/29/18

Benzene	31.3	1.0	ug/l	33.3		93.9	70-130				
Toluene	30.7	1.0	"	33.3		92.2	70-130				
Ethylbenzene	35.9	1.0	"	33.3		108	70-130				
m,p-Xylene	66.8	2.0	"	66.7		100	70-130				
o-Xylene	34.3	1.0	"	33.3		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.2		92.3	23-173				
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	21-167				

**Matrix Spike (1812369-MS1)**

Source: 1812329-08

Prepared: 12/28/18 Analyzed: 12/29/18

Benzene	26.0	1.0	ug/l	33.3	ND	78.0	70-130				
Toluene	39.3	1.0	"	33.3	ND	118	70-130				
Ethylbenzene	39.4	1.0	"	33.3	ND	118	70-130				
m,p-Xylene	76.1	2.0	"	66.7	ND	114	70-130				
o-Xylene	39.2	1.0	"	33.3	ND	118	70-130				
Surrogate: 1,2-Dichloroethane-d4	17.6		"	13.2		133	23-173				
Surrogate: Toluene-d8	16.2		"	13.3		121	20-170				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167				

Summit Scientific

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Talon/LPE  
1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14  
Project Manager: Jennifer Galles

**Reported:**  
01/02/19 11:09

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

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

**Batch 1812369 - EPA 5030 Water MS**

**Matrix Spike Dup (1812369-MSD1)**

**Source: 1812329-08**

Prepared: 12/28/18 Analyzed: 12/29/18

Benzene	26.6	1.0	ug/l	33.3	ND	79.9	70-130	2.47	30	
Toluene	33.6	1.0	"	33.3	ND	101	70-130	15.6	30	
Ethylbenzene	39.6	1.0	"	33.3	ND	119	70-130	0.481	30	
m,p-Xylene	72.3	2.0	"	66.7	ND	108	70-130	5.15	30	
o-Xylene	38.6	1.0	"	33.3	ND	116	70-130	1.41	30	
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.2		92.9	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	21-167			

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1811 East Mulberry  
Fort Collins CO, 80525

Project: Nelson C-1

Project Number: 701530.020.14

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**Reported:**  
01/02/19 11:09

### 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