

# **FREMONT ENVIRONMENTAL INC.**

May 18, 2018

Mr. Jacob Evans  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:     **Ground Water Data Submittal**  
              Libsack R G27-15  
              SWSE Sec 27, T4N, R65W  
              API # 05-123-13256  
              Weld County, Colorado  
              Fremont Project No. C013-009  
              Facility ID# 323601, Remediation #7871

Dear Mr. Jacobs:

Enclosed please find a copy of the above referenced Ground Water Data Submittal for the Libsack R G27-15 site in Weld County, Colorado. The enclosed report describes monitoring and sampling efforts to assess ground water quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

TABLE 1  
SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA  
NOBLE ENERGY INC.  
LIBSACK R G27-15, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C013-009

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	06/14/13	<1.0	<1.0	<1.0	<1.0	99.89	2.93	96.96	NP
	06/24/13	NS	NS	NS	NS		2.66	97.23	NP
	07/09/13	NS	NS	NS	NS		2.53	97.36	NP
	07/19/13	NS	NS	NS	NS		Inundated	Inundated	Inundated
	10/18/13	<1	<1	<1	<1		1.66	98.23	NP
	01/13/14	<1	<1	<1	<1		2.25	97.64	NP
	04/02/14	<1	<1	<1	<1		2.74	97.15	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.52	97.37	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.86	98.03	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.87	98.02	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		2.11	97.78	NP	
MW-2	06/14/13	<1.0	<1.0	<1.0	<1.0	100.00	3.01	96.99	NP
	06/24/13	NS	NS	NS	NS		2.75	97.25	NP
	07/09/13	NS	NS	NS	NS		2.62	97.38	NP
	07/19/13	NS	NS	NS	NS		1.95	98.05	NP
	10/18/13	<1	<1	<1	<1		1.75	98.25	NP
	01/13/14	<1	<1	<1	<1		2.36	97.64	NP
	04/02/14	<1	<1	<1	<1		2.82	97.18	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.61	97.39	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.97	98.03	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.97	98.03	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		2.20	97.80	NP	
MW-3	06/14/13	<1.0	<1.0	<1.0	<1.0	99.92	3.05	96.87	NP
	06/24/13	NS	NS	NS	NS		2.78	97.14	NP
	07/09/13	NS	NS	NS	NS		2.65	97.27	NP
	07/19/13	NS	NS	NS	NS		2.02	97.90	NP
	10/18/13	1.3	<1	<1	<1		1.88	98.04	NP
	01/13/14	<1	<1	<1	<1		2.40	97.52	NP
	04/02/14	<1	<1	<1	<1		2.84	97.08	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.66	97.26	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		2.02	97.90	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		2.04	97.88	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		2.27	97.65	NP	
MW-4	06/14/13	<b>4,523</b>	<1.0	<1.0	168	99.47	2.69	96.78	NP
	06/24/13	NS	NS	NS	NS		2.42	97.05	NP
	07/09/13	<b>868</b>	<1.0	<1.0	<1.0		2.28	97.19	NP
	07/19/13	NS	NS	NS	NS		1.61	97.86	NP
	10/18/13	<1	<1	<1	<1		1.46	98.01	NP
	01/13/14	<1	<1	<1	<1		2.07	97.40	NP
	04/02/14	<b>33.1</b>	<1	<1	<1		2.55	96.92	NP
	07/15/14	<b>6.4</b>	<1.0	<1.0	<1.0		2.31	97.16	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.68	97.79	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.71	97.76	NP
04/20/15	1.6	<1.0	<1.0	<1.0		1.94	97.53	NP	
MW-5	06/14/13	<b>494</b>	<1.0	1.8	15.7	99.29	2.68	96.61	NP
	06/24/13	NS	NS	NS	NS		2.39	96.90	NP
	07/09/13	<b>535</b>	<1.0	<1.0	<1.0		2.26	97.03	NP
	07/19/13	NS	NS	NS	NS		Inundated	Inundated	Inundated
	10/18/13	<1	<1	<1	<1		1.31	97.98	NP
	01/13/14	<1	<1	<1	<1		2.01	97.28	NP
	04/02/14	<1	<1	<1	<1		2.49	96.80	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.26	97.03	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.65	97.64	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.66	97.63	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		1.89	97.40	NP	
MW-6	06/14/13	<1.0	<1.0	<1.0	<1.0	99.66	3.01	96.65	NP
	06/24/13	NS	NS	NS	NS		2.74	96.92	NP
	07/09/13	NS	NS	NS	NS		2.61	97.05	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-6	07/19/13	NS	NS	NS	NS	99.66	2.01	97.65	NP
	10/18/13	<1	<1	<1	<1		1.79	97.87	NP
	01/13/14	2.9	<1	<1	<1		1.33	98.33	NP
	04/02/14	258	<1	<1	<1		2.82	96.84	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.61	97.05	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.98	97.68	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.99	97.67	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		2.23	97.43	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		2.38	97.28	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		1.86	97.80	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		3.07	96.59	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.81	97.85	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		2.74	96.92	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.93	97.73	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		3.01	96.65	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		3.39	96.27	NP
	07/25/17	<1.0	<1.0	<1.0	2.0		3.25	96.41	NP
10/12/17	<1.0	<1.0	<1.0	<1.0	1.78	97.88	NP		
01/25/18	<1.0	2.0	1.3	6.8	2.36	97.30	NP		
04/06/18	<1.0	<1.0	<1.0	<2.0	2.69	96.97	NP		
MW-7	06/14/13	1,063	27.8	<1.0	104	99.38	2.72	96.66	NP
	06/24/13	NS	NS	NS	NS		2.43	96.95	NP
	07/09/13	2,226	100	58.9	164		2.3	97.08	NP
	07/19/13	NS	NS	NS	NS		1.76	97.62	NP
	10/18/13	108	<1	3.9	1.9		1.44	97.94	NP
	01/13/14	<1	<1	<1	<1		2.02	97.36	NP
	04/02/14	<1	<1	<1	<1		2.47	96.91	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.28	97.10	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.63	97.75	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.64	97.74	NP
	04/20/15	NF	NF	NF	NF		NF	NF	NF
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.19	98.19	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		0.67	98.71	NP
	01/29/16	Damaged	Damaged	Damaged	Damaged		Damaged	Damaged	Damaged
	03/17/16	<1.0	<1.0	<1.0	<1.0		NM	NM	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		too shallow	too shallow	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		1.80	97.58	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		0.98	98.40	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.07	97.31	NP
04/05/17	<1.0	<1.0	<1.0	<1.0	2.46	96.92	NP		
07/25/17	<1.0	<1.0	<1.0	<1.0	2.34	97.04	NP		
10/12/17	<1.0	<1.0	<1.0	<1.0	0.87	99.66	NP		
01/25/18	<1.0	<1.0	<1.0	<2.0	1.90	97.48	NP		
04/06/18	<1.0	<1.0	<1.0	<2.0	2.23	97.15	NP		
MW-8	06/14/13	<1.0	<1.0	<1.0	<1.0	99.46	2.69	96.77	NP
	06/24/13	NS	NS	NS	NS		2.39	97.07	NP
	07/09/13	NS	NS	NS	NS		2.27	97.19	NP
	07/19/13	NS	NS	NS	NS		Inundated	Inundated	Inundated
	10/18/13	<1	<1	<1	<1		1.79	97.67	NP
	01/13/14	<1	<1	<1	<1		2.08	97.38	NP
	04/02/14	<1	<1	<1	<1		2.46	97.00	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.25	97.21	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.69	97.77	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.71	97.75	NP
04/20/15	<1.0	<1.0	<1.0	<1.0	1.93	97.53	NP		
MW-9	06/14/13	<1.0	<1.0	<1.0	<1.0	99.51	3.05	96.46	NP
	06/24/13	NS	NS	NS	NS	99.03	2.25	96.78	NP
	07/09/13	NS	NS	NS	NS	2.14	96.89	NP	
	07/19/13	NS	NS	NS	NS	1.18	97.85	NP	
	10/18/13	<1	<1	<1	<1	1.28	97.75	NP	
	01/13/14	<1	<1	<1	<1	1.82	97.69	NP	
	04/02/14	<1	<1	<1	<1	2.31	96.72	NP	
	07/15/14	<1.0	<1.0	<1.0	<1.0	2.11	97.40	NP	
	10/07/14	<1.0	<1.0	<1.0	<1.0	1.44	98.07	NP	
	01/20/15	<1.0	<1.0	<1.0	<1.0	1.46	97.57	NP	
04/20/15	<1.0	<1.0	<1.0	<1.0	1.69	97.34	NP		

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-10	06/14/13	<1.0	<1.0	<1.0	<1.0	100.01	3.61	96.40	NP
	06/24/13	NS	NS	NS	NS	99.44	2.7	96.74	NP
	07/09/13	NS	NS	NS	NS		2.59	96.85	NP
	07/19/13	NS	NS	NS	NS		1.89	97.55	NP
	10/18/13	<1	<1	<1	<1		1.73	97.71	NP
	01/13/14	<1	<1	<1	<1		2.29	97.72	NP
	04/02/14	<1	<1	<1	<1		2.76	96.68	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.54	97.47	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.91	98.10	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.92	97.52	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		2.16	97.28	NP	
MW-11	06/14/13	<1.0	<1.0	<1.0	<1.0	100.50	4.1	96.40	NP
	06/24/13	NS	NS	NS	NS	99.98	3.23	96.75	NP
	07/09/13	NS	NS	NS	NS		3.12	96.86	NP
	07/19/13	NS	NS	NS	NS		2.48	97.50	NP
	10/18/13	<1	<1	<1	<1		2.24	97.74	NP
	01/13/14	<1	<1	<1	<1		2.82	97.68	NP
	04/02/14	<1	<1	<1	<1		3.31	96.67	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		3.42	97.08	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		2.43	98.07	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		2.44	97.54	NP
04/20/15	<1.0	<1.0	<1.0	<1.0		2.67	97.31	NP	
MW-12	07/09/13	<1.0	<1.0	<1.0	<1.0	99.68	2.62	97.06	NP
	07/19/13	NS	NS	NS	NS		2.14	97.54	NP
	10/18/13	<1	<1	<1	<1		1.74	97.94	NP
	01/13/14	<1	<1	<1	<1		2.32	97.36	NP
	04/02/14	<1	<1	<1	<1		2.81	96.87	NP
	07/15/14	WD	WD	WD	WD		WD	WD	WD
	01/20/15	<1.0	<1.0	<1.0	<1.0		WD	WD	NP
04/20/15	NF	NF	NF	NF		NF	NF	NF	
MW-13	07/09/13	71.1		160	2,606	99.76	2.78	96.98	NP
	07/19/13	NS	NS	NS	NS		2.28	97.48	NP
	10/18/13	131	<1	9.4	200		1.93	97.83	NP
	01/13/14	112	<1	91.7	4.3		2.51	97.25	NP
	04/02/14	75.5	1.7	47.9	125		3.07	96.69	NP
	07/15/14	71.2	<1.0	31.4	168		2.84	96.92	NP
	10/07/14	96.9	<1.0	56.6	2.1		1.19	98.57	NP
	01/20/15	100	<1.0	129	13.5		1.20	98.56	NP
	04/20/15	130	<1.0	92	<1.0		1.44	98.32	NP
	07/20/15	70	<1.0	7.2	<1.0		2.58	97.18	NP
	10/28/15	30	<1.0	2.4	<1.0		2.06	97.70	NP
	01/29/16	63	<1.0	22	<1.0		3.28	96.48	NP
	04/28/16	34	<1.0	7.2	<1.0		2.02	97.74	NP
	07/26/16	13	<1.0	<1.0	<1.0		2.95	96.81	NP
	10/18/16	18	<1.0	1.5	<1.0		2.14	97.62	NP
	01/06/17	46	<1.0	9.1	<1.0		3.22	96.54	NP
	04/05/17	25	<1.0	1.0	<1.0		3.62	96.14	NP
07/25/17	<1.0	<1.0	<1.0	<1.0		3.51	96.25	NP	
10/12/17	<1.0	<1.0	<1.0	<1.0		2.04	99.66	NP	
01/25/18	<1.0	<1.0	1.1	<2.0		2.51	97.25	NP	
04/06/18	<1.0	<1.0	<1.0	<2.0		2.79	96.97	NP	
MW-14	07/09/13	9.2		1.6	16.8	99.42	2.5	96.92	NP
	07/19/13	NS	NS	NS	NS		1.96	97.46	NP
	10/18/13	10.6	<1	<1	<1		1.63	97.79	NP
	01/13/14	1.2	<1	<1	<1		2.28	97.14	NP
	04/02/14	2	<1	<1	4		2.78	96.64	NP
	07/15/14	1.6	<1.0	<1.0	1.5		2.58	96.84	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.92	97.50	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.94	97.48	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		2.17	97.25	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		2.41	97.01	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		1.89	97.53	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		3.11	96.31	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.85	97.57	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		2.78	96.64	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-14	10/18/16	<1.0	<1.0	<1.0	<1.0	99.42	1.97	97.45	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		3.05	96.37	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		3.43	95.99	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		3.24	96.18	NP
	10/12/17	<1.0	<1.0	<1.0	<1.0		1.77	99.66	NP
	01/25/18	<1.0	<1.0	<1.0	<2.0		2.38	97.04	NP
	04/06/18	<1.0	<1.0	<1.0	<2.0		2.72	96.70	NP
MW-15	07/09/13	<1.0	<1.0	<1.0	<1.0	99.59	2.68	96.91	NP
	07/19/13	NS	NS	NS	NS		2.12	97.47	NP
	10/18/13	<1	<1	<1	<1		1.82	97.77	NP
	01/13/14	<1	<1	<1	<1		2.39	97.20	NP
	04/02/14	<1	<1	<1	<1		2.88	96.71	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.65	96.94	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		2.01	97.58	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		2.03	97.56	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		2.26	97.33	NP
MW-16	07/09/13	177		394	5,089	99.18	2.3	96.88	NP
	07/19/13	NS	NS	NS	NS		1.74	97.44	NP
	10/18/13	166	<1	104	405		1.41	97.77	NP
	01/13/14	249	<1	268	1733		2.02	97.16	NP
	04/02/14	149	3.1	127	852		2.49	96.69	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.29	96.89	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.61	97.57	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.62	97.56	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.85	97.33	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		2.06	97.12	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		1.53	97.65	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		2.75	96.43	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.50	97.68	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		2.43	96.75	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.63	97.55	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.72	96.46	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		3.10	96.08	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.99	96.19	NP
	10/12/17	<1.0	<1.0	<1.0	<1.0		1.52	99.66	NP
	01/25/18	<1.0	<1.0	<1.0	<2.0		1.96	97.22	NP
04/06/18	<1.0	<1.0	1.6	9.6		2.32	96.86	NP	
MW-17	07/09/13	851		390	9,256	99.45	2.5	96.95	NP
	07/19/13	NS	NS	NS	NS		2.02	97.43	NP
	10/18/13	961	<1	82.2	8473		1.43	98.02	NP
	01/13/14	455	<1	101	4781		2.19	97.26	NP
	04/02/14	435	4.4	69.1	5184		2.69	96.76	NP
	07/15/14	1081	<1.0	106	5741		2.46	96.99	NP
	10/07/14	461	<1.0	247	2008		1.85	97.60	NP
	01/20/15	212	2.3	181	1844		1.86	97.59	NP
	04/20/15	26	<1.0	4.4	140		2.19	97.26	NP
	07/20/15	280	<1.0	21	130		2.27	97.18	NP
	10/28/15	77	<1.0	29	54		1.75	97.70	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		2.97	96.48	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.70	97.75	NP
	07/26/16	16	<1.0	1.8	18		2.64	96.81	NP
	10/18/16	71	<1.0	2.9	17		1.83	97.62	NP
	01/06/17	91	<1.0	7.2	5.5		2.91	96.54	NP
	04/05/17	50	<1.0	4.1	<1.0		3.28	96.17	NP
	07/25/17	3.1	<1.0	<1.0	<1.0		3.16	96.29	NP
	10/12/17	14	<1.0	1.3	25		1.69	99.66	NP
	01/25/18	190	1.1	3.8	10		2.15	97.30	NP
04/06/18	<1.0	<1.0	<1.0	<2.0		2.46	96.99	NP	
MW-18	07/09/13	<1.0	<1.0	<1.0	<1.0	98.28	1.54	96.74	NP
	07/19/13	NS	NS	NS	NS		1.02	97.26	NP
	10/18/13	<1	<1	<1	<1		0.66	97.62	NP
	01/13/14	<1	<1	<1	<1		1.15	97.13	NP
	04/02/14	<1	<1	<1	<1		1.68	96.60	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		1.49	96.79	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		0.81	97.47	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-18	01/20/15	<1.0	<1.0	<1.0	<1.0	98.28	0.83	97.45	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.06	97.22	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.29	96.99	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		0.76	97.52	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		1.98	96.30	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		too shallow	too shallow	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		1.81	96.47	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.00	97.28	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.09	96.19	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		2.47	95.81	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.36	95.92	NP
	10/12/17	<1.0	<1.0	<1.0	<1.0		0.89	99.66	NP
	01/25/18	<1.0	<1.0	<1.0	<2.0		1.12	97.16	NP
	04/06/18	<1.0	<1.0	<1.0	<2.0		1.45	96.83	NP
MW-19	07/09/13	<1.0	<1.0	<1.0	<1.0	98.47	1.71	96.76	NP
	07/19/13	NS	NS	NS	NS		1.1	97.37	NP
	10/18/13	<1	<1	<1	<1		1.78	96.69	NP
	01/13/14	<1	<1	<1	<1		1.33	97.14	NP
	04/02/14	<1	<1	<1	<1		1.84	96.63	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		1.65	96.82	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		0.99	97.48	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.01	97.46	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.24	97.23	NP
	MW-20	07/19/13	<1.0	<1.0	<1.0		<1.0	99.40	1.33
10/18/13		<1	<1	<1	<1	1.51	97.89		NP
01/13/14		<1	<1	<1	<1	2.11	97.29		NP
04/02/14		<1	<1	<1	<1	2.57	96.83		NP
07/15/14		8.4	<1.0	<1.0	<1.0	2.32	97.08		NP
10/07/14		<1.0	<1.0	<1.0	<1.0	1.70	97.70		NP
01/20/15		<1.0	<1.0	<1.0	<1.0	1.71	97.69		NP
04/20/15	<1.0	<1.0	<1.0	<1.0	1.95	97.45	NP		
MW-21	07/19/13	<1.0	<1.0	<1.0	<1.0	99.31	1.67	97.64	NP
	10/18/13	<1	<1	<1	<1		1.51	97.80	NP
	01/13/14	<1	<1	<1	<1		2.10	97.21	NP
	04/02/14	<1	<1	<1	<1		2.56	96.75	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.33	96.98	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.71	97.60	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.73	97.58	NP
04/20/15	<1.0	<1.0	<1.0	<1.0	1.96	97.35	NP		
MW-22	07/19/13	<1.0	<1.0	<1.0	<1.0	99.12	2.01	97.11	NP
	10/18/13	<1	<1	<1	<1		1.73	97.39	NP
	01/13/14	<1	<1	<1	<1		2.01	97.11	NP
	04/02/14	<1	<1	<1	<1		2.49	96.63	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.30	96.82	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		1.85	97.27	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.86	97.26	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		2.09	97.03	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.10	98.02	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		0.59	98.53	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		1.79	97.33	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		too shallow	too shallow	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		1.80	97.32	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		0.99	98.13	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.07	97.05	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		2.45	96.67	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.34	96.78	NP
10/12/17	<1.0	<1.0	<1.0	<1.0	0.88	99.66	NP		
01/25/18	<1.0	<1.0	<1.0	<2.0	2.05	97.07	NP		
04/06/18	<1.0	<1.0	<1.0	<2.0	2.25	96.87	NP		
MW-23	07/19/13	<1.0	<1.0	<1.0	<1.0	98.77	1.41	97.36	NP
	10/18/13	<1	<1	<1	<1		0.98	97.79	NP
	01/13/14	<1	<1	<1	<1		1.52	97.25	NP
	04/02/14	<1	<1	<1	<1		2.01	96.76	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		1.82	96.95	NP

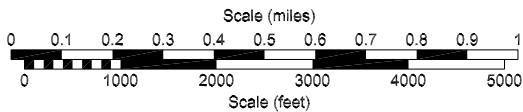
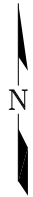
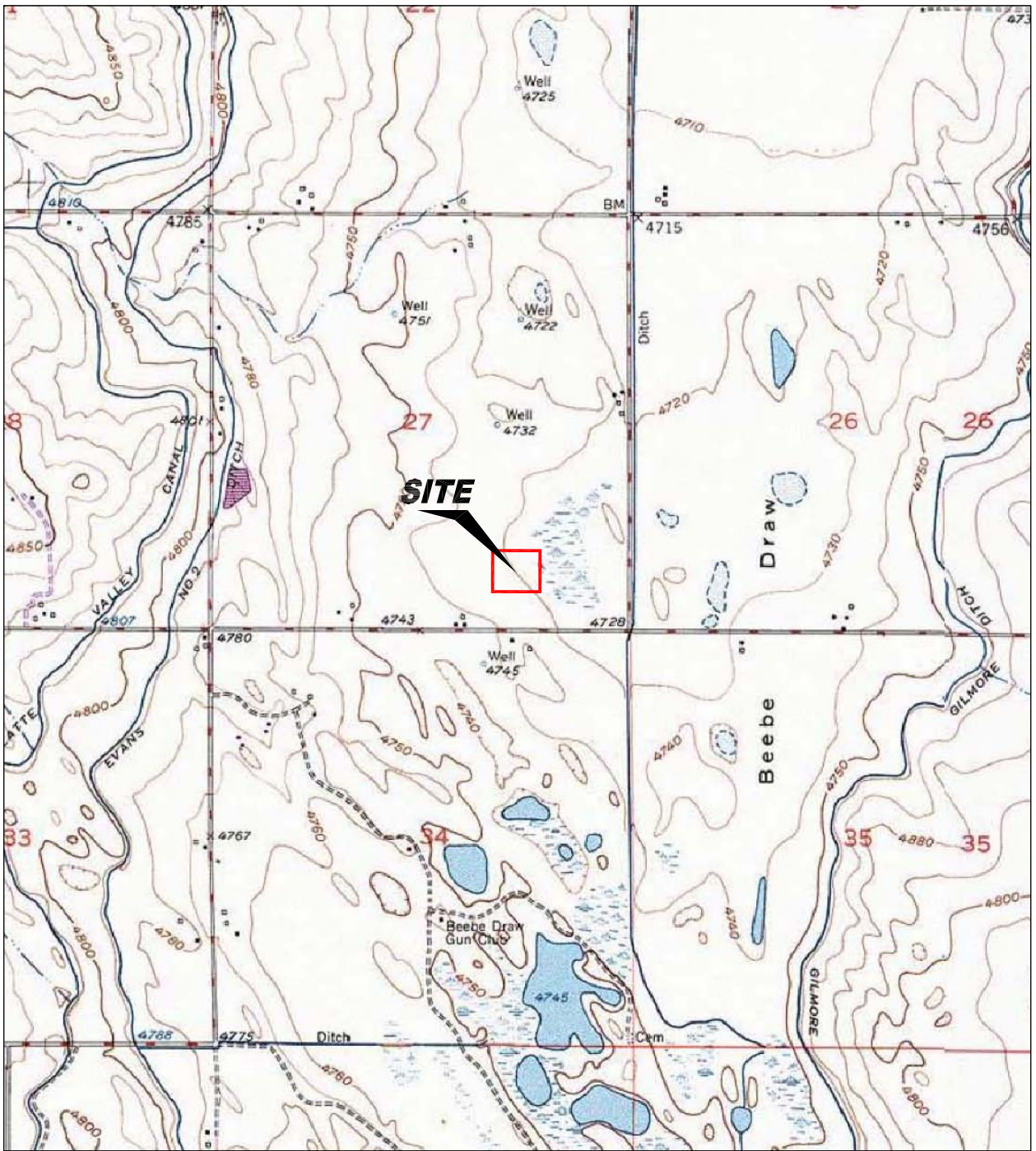
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-23	10/07/14	<1.0	<1.0	<1.0	<1.0	98.77	1.16	97.61	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.18	97.59	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.42	97.35	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.62	97.15	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		1.10	97.67	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		2.32	96.45	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.06	97.71	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		1.99	96.78	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.19	97.58	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.27	96.50	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		2.63	96.14	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.53	96.24	NP
	10/12/17	<1.0	<1.0	<1.0	<1.0		1.07	99.66	NP
	01/25/18	<1.0	<1.0	<1.0	<2.0		1.45	97.32	NP
04/06/18	<1.0	<1.0	<1.0	<2.0		1.75	97.02	NP	
MW-24	07/19/13	2.4	<1.0	36.6	1,364	99.08	1.57	97.51	NP
	10/18/13	<1	<1	<1	<1		1.2	97.88	NP
	01/13/14	3.3	<1	23.7	64.4		1.74	97.34	NP
	04/02/14	1.9	<1	10.3	35.7		2.23	96.85	NP
	07/15/14	<1.0	<1.0	4.0	1.4		2.01	97.07	NP
	10/07/14	<1.0	<1.0	<1.0	1.5		1.40	97.68	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.39	97.69	NP
	04/20/15	<1.0	<1.0	<1.0	4.6		1.62	97.46	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.82	97.26	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		1.30	97.78	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		2.51	96.57	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		1.25	97.83	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		2.18	96.90	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.36	97.72	NP
	01/06/17	2.3	<1.0	<1.0	6.4		2.49	96.59	NP
	04/05/17	2.3	<1.0	3.6	30		2.84	96.24	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.75	96.33	NP
10/12/17	<1.0	<1.0	<1.0	<1.0		1.27	99.66	NP	
01/25/18	<1.0	<1.0	<1.0	<2.0		1.65	97.43	NP	
04/06/18	<1.0	<1.0	<1.0	1200		2.00	97.08	NP	
MW-25	07/19/13	<b>803</b>	<1.0	473	<b>10,322</b>	99.36	1.96	97.40	NP
	10/18/13	<b>435</b>	<1	119	<b>1572</b>		1.49	97.87	NP
	01/13/14	<b>47.8</b>	<1	6.3	159		2.03	97.33	NP
	04/02/14	<b>44.1</b>	<1	24.3	200		2.58	96.78	NP
	07/15/14	<b>115</b>	<1.0	39.2	120		2.35	97.01	NP
	10/07/14	<b>57.1</b>	<1.0	9.3	12.1		1.69	97.67	NP
	01/20/15	<b>36.2</b>	<1.0	5.1	44.6		1.71	97.65	NP
	04/20/15	<b>16</b>	<1.0	1.2	5.0		1.94	97.42	NP
	07/20/15	<b>5.8</b>	<1.0	<1.0	<1.0		2.15	97.21	NP
	10/28/15	<b>13</b>	<1.0	<1.0	<1.0		1.63	97.73	NP
	01/29/16	Damaged	Damaged	Damaged	Damaged		Damaged	Damaged	Damaged
	03/17/16	<b>83</b>	<1.0	2.1	24		NM	NM	NP
	04/28/16	<b>7.3</b>	<1.0	<1.0	4.0		too shallow	too shallow	NP
	07/26/16	2.7	<1.0	<1.0	<1.0		1.80	97.56	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		0.98	98.38	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.07	97.29	NP
	04/05/17	<b>51</b>	<1.0	2.1	18		2.46	96.90	NP
07/25/17	1.4	<1.0	<1.0	<1.0		2.34	97.02	NP	
10/12/17	<1.0	<1.0	<1.0	<1.0		0.86	99.66	NP	
01/25/18	<1.0	<1.0	<1.0	2.3		1.96	97.40	NP	
04/06/18	<b>5.6</b>	<1.0	<1.0	<b>3900</b>		2.33	97.03	NP	
MW-26	07/19/13	<b>198</b>	<1.0	344	<b>2,547</b>	99.30	1.88	97.42	NP
	10/18/13	<b>109</b>	<1	83.9	894		1.49	97.81	NP
	01/13/14	<1	<1	<1	<1		2.01	97.29	NP
	04/02/14	<1	<1	<1	<1		2.54	96.76	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		2.29	97.01	NP
	10/07/14	2.7	<1.0	<1.0	1.2		1.64	97.66	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		1.65	97.65	NP
	04/20/15	<b>13</b>	<1.0	2.0	8.0		1.88	97.42	NP
	07/20/15	3.1	<1.0	<1.0	<1.0		2.11	97.19	NP
	10/28/15	<b>20</b>	<1.0	13	49		1.60	97.70	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-26	01/29/16	Damaged	Damaged	Damaged	Damaged	99.30	Damaged	Damaged	Damaged
	03/17/16	<b>23</b>	<1.0	2.2	59		NM	NM	NP
	04/28/16	<b>60</b>	<1.0	20	110		too shallow	too shallow	NP
	07/26/16	<b>40</b>	<1.0	6.3	17		1.79	97.51	NP
	10/18/16	2.8	<1.0	10	190		0.98	98.32	NP
	01/06/17	<b>29</b>	<1.0	5.2	57		2.06	97.24	NP
	04/05/17	<b>38</b>	<1.0	6.5	75		2.44	96.86	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.21	97.09	NP
	10/12/17	<1.0	<1.0	<1.0	<1.0		0.75	99.66	NP
	01/25/18	<1.0	<1.0	<1.0	72		2.00	97.30	NP
	04/06/18	<b>130</b>	<1.0	1.2	<b>6900</b>		2.32	96.98	NP
MW-27	07/19/13	<1.0	<1.0	<1.0	<1.0	98.40	0.91	97.49	NP
	10/18/13	<1	<1	<1	<1		0.7	97.70	NP
	01/13/14	<1	<1	<1	<1		1.23	97.17	NP
	04/02/14	<1	<1	<1	<1		1.73	96.67	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		3.41	94.99	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		0.87	97.53	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		0.89	97.51	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.12	97.28	NP
MW-28	07/19/13	<1.0	<1.0	<1.0	<1.0	98.64	1.14	97.50	NP
	10/18/13	<1	<1	<1	<1		0.79	97.85	NP
	01/13/14	<1	<1	<1	<1		1.28	97.36	NP
	04/02/14	<1	<1	<1	<1		1.79	96.85	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		1.59	97.05	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		0.95	97.69	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		0.96	97.68	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		1.19	97.45	NP
	07/20/15	<1.0	<1.0	<1.0	<1.0		1.38	97.26	NP
	10/28/15	<1.0	<1.0	<1.0	<1.0		0.87	97.77	NP
	01/29/16	<1.0	<1.0	<1.0	<1.0		2.07	96.57	NP
	04/28/16	<1.0	<1.0	<1.0	<1.0		too shallow	too shallow	NP
	07/26/16	<1.0	<1.0	<1.0	<1.0		1.82	96.82	NP
	10/18/16	<1.0	<1.0	<1.0	<1.0		1.81	96.83	NP
	01/06/17	<1.0	<1.0	<1.0	<1.0		2.88	95.76	NP
	04/05/17	<1.0	<1.0	<1.0	<1.0		2.49	96.15	NP
	07/25/17	<1.0	<1.0	<1.0	<1.0		2.27	96.37	NP
10/12/17	<1.0	<1.0	<1.0	<1.0		0.81	99.66	NP	
01/25/18	<1.0	<1.0	<1.0	<2.0		1.23	97.41	NP	
04/06/18	3.6	<1.0	1.4	840		1.53	97.11	NP	
MW-29	07/19/13	<1.0	<1.0	<1.0	<1.0	101.04	3.45	97.59	NP
	10/18/13	<1	<1	<1	<1		3.03	98.01	NP
	01/13/14	<1	<1	<1	<1		3.58	97.46	NP
	04/02/14	<1	<1	<1	<1		4.13	96.91	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		3.96	97.08	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		3.32	97.72	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		NF	NF	NP
	04/20/15	NF	NF	NF	NF		NF	NF	NF
MW-30	07/19/13	<1.0	<1.0	<1.0	<1.0	100.22	2.73	97.49	NP
	10/18/13	<1	<1	<1	<1		2.3	97.92	NP
	01/13/14	<1	<1	<1	<1		2.82	97.40	NP
	04/02/14	<1	<1	<1	<1		3.35	96.87	NP
	07/15/14	<1.0	<1.0	<1.0	<1.0		3.22	97.00	NP
	10/07/14	<1.0	<1.0	<1.0	<1.0		2.59	97.63	NP
	01/20/15	<1.0	<1.0	<1.0	<1.0		2.61	97.61	NP
	04/20/15	<1.0	<1.0	<1.0	<1.0		2.94	97.28	NP
Table 910-1 Limits		5	560	700	1,400				

Bold face values exceed the COGCC limits

NP - No Free Product

NS- Not Sampled



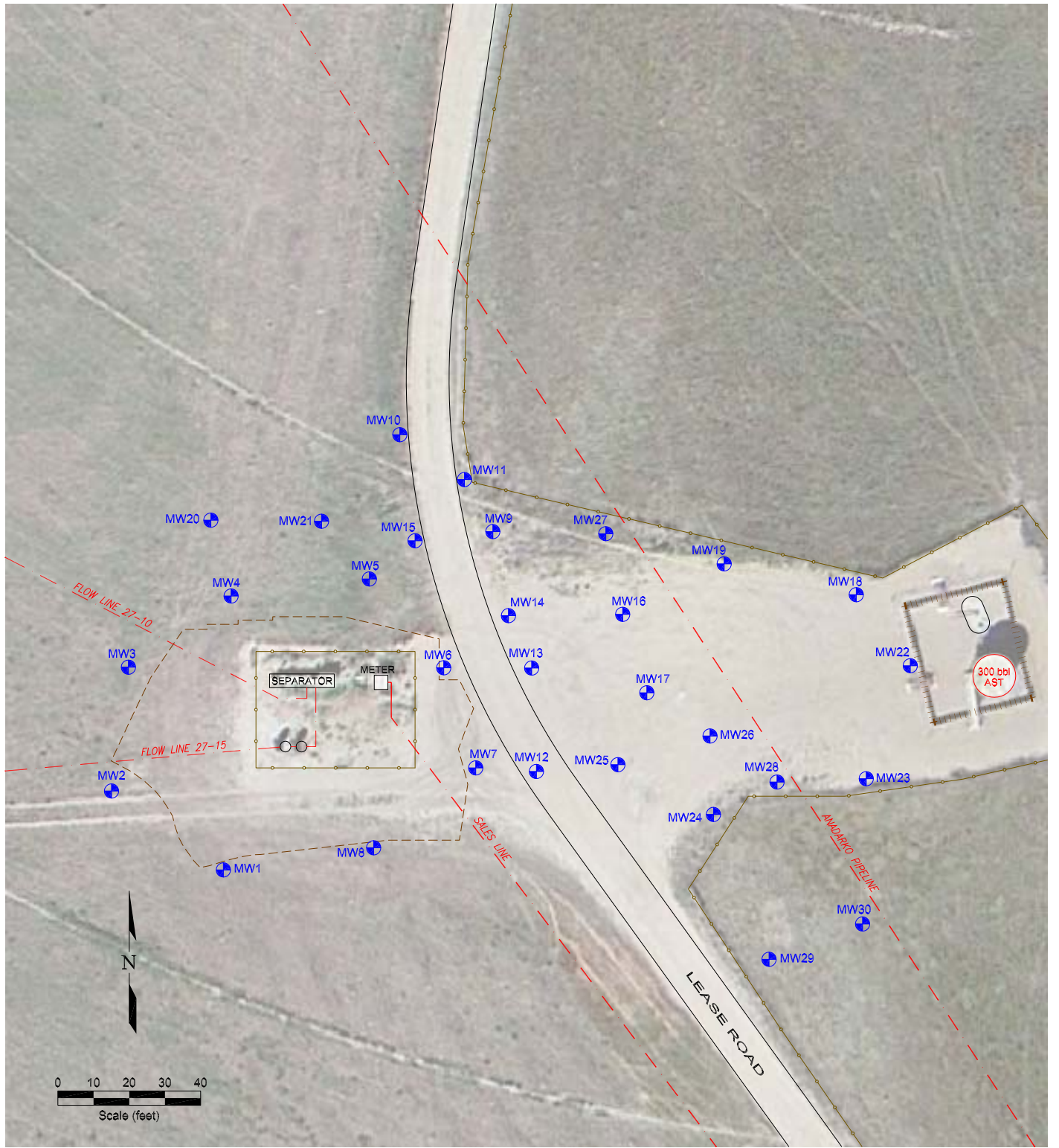
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

Noble Lipsack R G27-15  
SW SE Section 27, T4N, R65W  
Weld County, Colorado

Project No. C013-009	Prepared by	Drawn by JMA
Date 5/21/13	Reviewed by	Filename 13009T





**LEGEND**






-  MONITORING WELL
-  FENCE LINE
-  PIPELINE
-  CONTAINMENT BERM
-  ABOVE GROUND STORAGE TANK

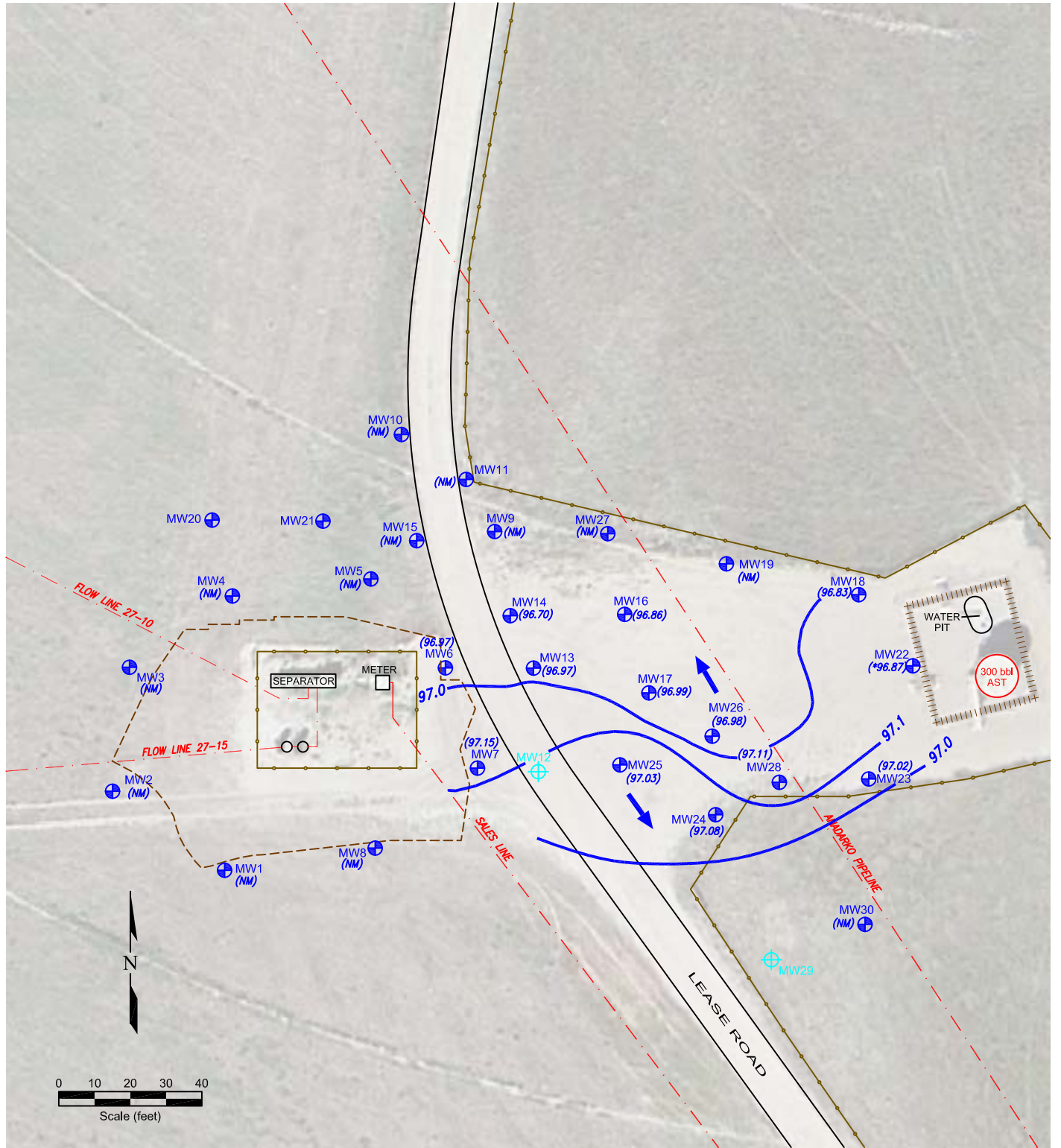
Figure 2

**SITE MAP**

**Noble Libsack R G27-15**  
 SW SE Section 27, T4N, R65W  
 Weld County, Colorado

Project No. C013-009	Prepared by	Drawn by JMA
Date 7/24/13	Reviewed by	Filename 13009R





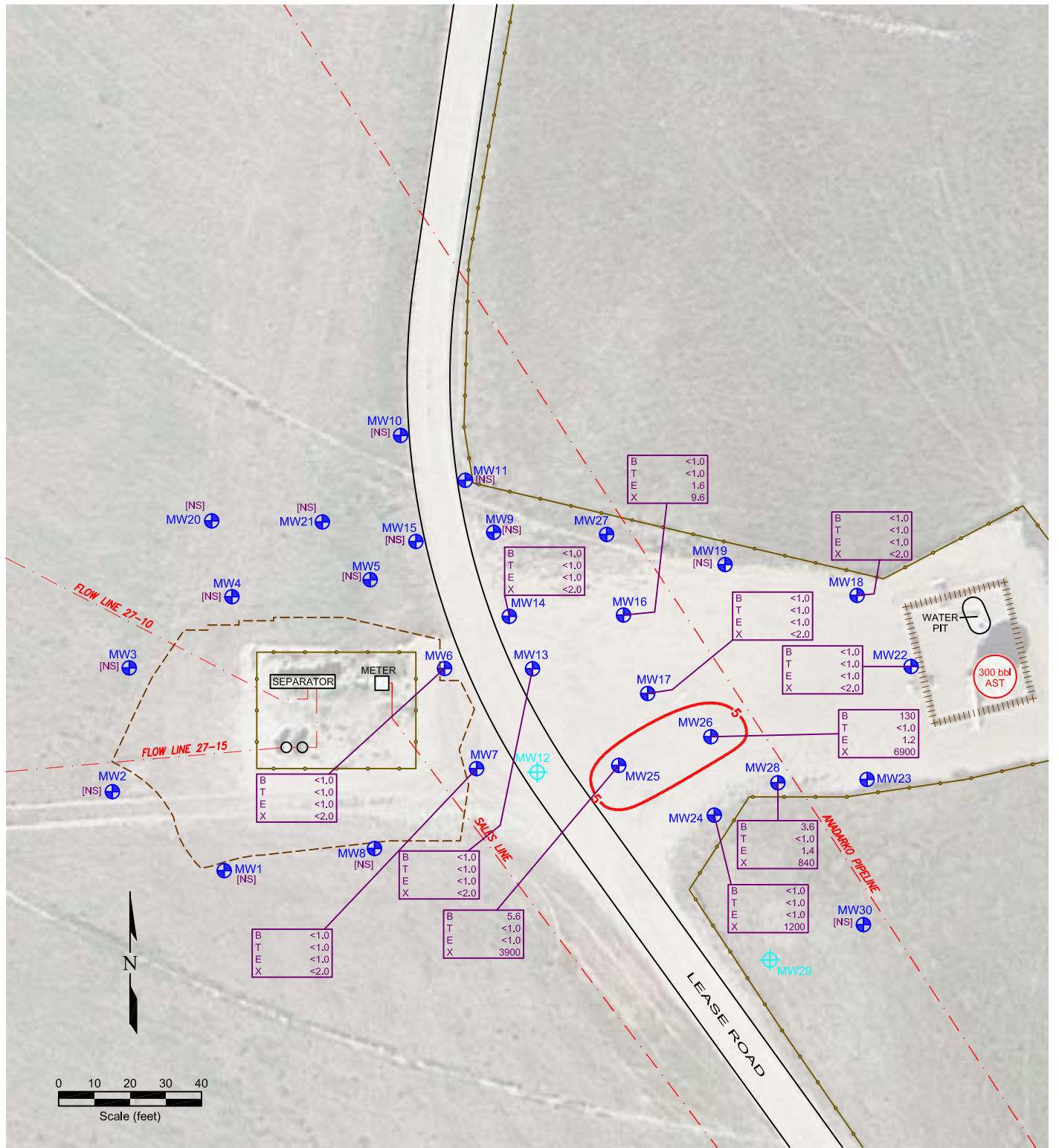
**LEGEND**

- MONITORING WELL
- DESTROYED MONITORING WELL
- FENCE LINE
- PIPELINE
- CONTAINMENT BERM
- ABOVE GROUND STORAGE TANK
- GROUND WATER ELEVATION (ft above arbitrary datum)  
 (98.05)  
 S  
 NM
- WATER TABLE CONTOUR
- GROUND WATER FLOW DIRECTION
- NOT USED FOR CONTOURING

Figure 3  
**INFERRED GROUNDWATER CONTOUR**  
 April 6, 2018

**Noble Libsack R G27-15**  
 SW SE Section 27, T4N, R65W  
 Weld County, Colorado

Project No. <b>C013-009</b>	Prepared by TDA	Drawn by <b>TDA</b>	
Date <b>5/16/2018</b>	Reviewed by	Filename <b>13009R</b>	



**LEGEND**

- MONITORING WELL
  - DESTROYED MONITORING WELL
  - FENCE LINE
  - PIPELINE
  - CONTAINMENT BERM
  - ABOVE GROUND STORAGE TANK
- |   |      |                      |
|---|------|----------------------|
| B | <1.0 | BENZENE (ug/L)       |
| T | <1.0 | TOLUENE (ug/L)       |
| E | <1.0 | ETHYLBENZENE (ug/L)  |
| X | <1.0 | TOTAL XYLENES (ug/L) |
- D  
NS
  - WELL DAMAGED  
NOT SAMPLED
- BENZENE ISOCONCENTRATION (ug/L)

Figure 4  
**GROUND WATER CHEMISTRY MAP**  
 April 6, 2018

**Noble Libsack R G27-15**  
 SW SE Section 27, T4N, R65W  
 Weld County, Colorado

Project No. <b>C013-009</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>5/04/18</b>	Reviewed by	Filename <b>13009R</b>



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 15, 2018

Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Libsack

Enclosed are the results of analyses for samples received by Summit Scientific on 04/06/18 15:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
Project Manager: Paul Henehan

**Reported:**  
04/15/18 20:21

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	1804150-01	Water	04/06/18 09:00	04/06/18 15:54
MW-7	1804150-02	Water	04/06/18 09:10	04/06/18 15:54
MW-13	1804150-03	Water	04/06/18 09:20	04/06/18 15:54
MW-14	1804150-04	Water	04/06/18 09:30	04/06/18 15:54
MW-16	1804150-05	Water	04/06/18 10:40	04/06/18 15:54
MW-17	1804150-06	Water	04/06/18 11:00	04/06/18 15:54
MW-18	1804150-07	Water	04/06/18 09:40	04/06/18 15:54
MW-22	1804150-08	Water	04/06/18 10:00	04/06/18 15:54
MW-23	1804150-09	Water	04/06/18 09:50	04/06/18 15:54
MW-24	1804150-10	Water	04/06/18 10:10	04/06/18 15:54
MW-25	1804150-11	Water	04/06/18 10:20	04/06/18 15:54
MW-26	1804150-12	Water	04/06/18 10:50	04/06/18 15:54
MW-28	1804150-13	Water	04/06/18 10:30	04/06/18 15:54

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.*

# Summit Scientific

1804/50.1

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

Client: Frononi Environmental Project Manager: Paul Hanchan  
 Address: P.O. Box 1219 E-Mail: paula@fronontenv.com  
 City/State/Zip: PO Box 1329 Wellington, CO 80549  
 Phone: 303-956-8714 Fax: Project Name: NOBLE LIBSTER  
 Sampler Name: ROGOWSKI Project Number: 013-009

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Causter #	Other (Specify)	BTEX	CRO/DRO	Napthalene	SAR	PEC	Ph	
1	MW-6	4.6.18	900	2			X		X					X					
2	MW-7	↓	910	↓					↓					↓					
3	MW-13		920																
4	MW-14		930																
5	MW-16		1040																
6	MW-17		1100																
7	MW-18		940																
8	MW-22		1000																
9	MW-23	950																	
10	MW-24	4.6.18	1010	2			X		X					X					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4.6.18/1554</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/6/18 1554</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	72 hours <input type="checkbox"/>
				Standard <input checked="" type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt:	
				8.5°C Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

# Summit Scientific

1804150-2

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

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Hanchan

Address: P.O. Box 1289

E-Mail: paulh@fremontenv.com

City/State/Zip: PO Box 1329 Wellington, CO 80549

Phone: 303-956-8714

Fax:

Project Name: NORLE LIDBACK

Sampler Name: ROGOWSKI

Project Number: CO13-009

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other (Specify)	Ground-water	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Naphthalene	SAR	PEC	Ph		
1	MW-25	4.6.18	1020	2			X		X					X						
2	MW-26	4.6.18	1050	2			X		X					X						
3	MW-28	4.6.18	1030	2			X		X					X						
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/6/18 1554</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/6/18 1554</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ <u>Standard</u> 48 hours _____  Sample Integrity: Temperature Upon Receipt: <u>8.5°C</u> Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

**Sample Receipt Checklist**

S2 Work Order: 1804150

Client: Fremont Env. Client Project ID: Noble Lipsack

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

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

Cooler ID					
Temp (°C)	8.5				

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 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				
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

4/6/18 1630  
Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-6**  
**1804150-01 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.1 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		89.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	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.*



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-7**  
**1804150-02 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.1 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.4 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.3 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-13**  
**1804150-03 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:20**

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>		90.2 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-14**  
**1804150-04 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.1 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		90.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-16**  
**1804150-05 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>9.6</b>	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 10:40**

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>		88.8 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-17**  
**1804150-06 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		79.5 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-18**  
**1804150-07 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.9 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	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.*



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-22**  
**1804150-08 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.9 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		90.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Libsack

Project Number: C013-009  
 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-23**  
**1804150-09 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	45-146		"	"	"	"	

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 Project Manager: Paul Henehan

**Reported:**  
 04/15/18 20:21

**MW-24**  
**1804150-10 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1804046	04/11/18	04/15/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1200</b>	200	"	100	"	"	04/14/18	"	

Date Sampled: **04/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.7 %	37-154		"	"	04/15/18	"	
Surrogate: Toluene-d8		92.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	45-146		"	"	"	"	

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**Reported:**  
 04/15/18 20:21

**MW-25**  
**1804150-11 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>5.6</b>	1.0	ug/l	1	1804046	04/11/18	04/15/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3900</b>	200	"	100	"	"	04/14/18	"	

Date Sampled: **04/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		90.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	45-146		"	"	04/15/18	"	

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**Reported:**  
 04/15/18 20:21

**MW-26**  
**1804150-12 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>130</b>	100	ug/l	100	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	04/15/18	"	
<b>Ethylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6900</b>	200	"	100	"	"	"	"	

Date Sampled: **04/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.0 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		89.0 %	45-149		"	"	04/14/18	"	
Surrogate: 4-Bromofluorobenzene		89.3 %	45-146		"	"	"	"	

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**Reported:**  
 04/15/18 20:21

**MW-28**  
**1804150-13 (Water)**

**Summit Scientific**

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

Date Sampled: **04/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>3.6</b>	1.0	ug/l	1	1804046	04/11/18	04/14/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>840</b>	200	"	100	"	"	"	"	

Date Sampled: **04/06/18 10:30**

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>		98.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.1 %	45-146		"	"	"	"	

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Reported:  
04/15/18 20:21

### 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 1804046 - EPA 5030 Water MS

##### Blank (1804046-BLK1)

Prepared: 04/11/18 Analyzed: 04/14/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2		105	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	45-146			

##### LCS (1804046-BS1)

Prepared: 04/11/18 Analyzed: 04/14/18

Benzene	49.5	1.0	ug/l	50.0		98.9	60.1-131			
Toluene	50.8	1.0	"	50.0		102	65.9-127			
Ethylbenzene	48.2	1.0	"	50.0		96.4	65.1-129			
m,p-Xylene	98.0	2.0	"	100		98.0	66.8-127			
o-Xylene	50.4	1.0	"	50.0		101	61.2-120			
Xylenes (total)	148	2.0	"				63-131			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		105	37-154			
Surrogate: Toluene-d8	13.6		"	13.3		102	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	45-146			

##### Matrix Spike (1804046-MS1)

Source: 1804157-01

Prepared: 04/11/18 Analyzed: 04/14/18

Benzene	51.8	1.0	ug/l	50.0	ND	104	52.7-130			
Toluene	54.0	1.0	"	50.0	ND	108	57-127			
Ethylbenzene	52.5	1.0	"	50.0	ND	105	59.2-127			
m,p-Xylene	95.0	2.0	"	100	ND	95.0	53.2-132			
o-Xylene	54.5	1.0	"	50.0	ND	109	56.3-117			
Xylenes (total)	159	2.0	"		ND		63-131			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		97.3	37-154			
Surrogate: Toluene-d8	13.7		"	13.3		103	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.7	45-146			

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

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

**Batch 1804046 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1804046-MSD1)</b>	<b>Source: 1804157-01</b>			Prepared: 04/11/18		Analyzed: 04/14/18				
Benzene	52.4	1.0	ug/l	50.0	ND	105	52.7-130	1.21	19.3	
Toluene	53.8	1.0	"	50.0	ND	108	57-127	0.186	18.7	
Ethylbenzene	53.9	1.0	"	50.0	ND	108	59.2-127	2.56	20	
m,p-Xylene	98.9	2.0	"	100	ND	98.9	53.2-132	4.01	20	
o-Xylene	49.7	1.0	"	50.0	ND	99.3	56.3-117	9.25	20	
Xylenes (total)	163	2.0	"		ND		63-131	2.31	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.3</i>		<i>"</i>	<i>13.2</i>		<i>93.3</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.0</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>93.4</i>	<i>45-146</i>			

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04/15/18 20:21

### 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