

August 31, 2020

Mohsen Kourehdar  
Washington State Department of Ecology  
PO Box 47600  
Olympia, Washington 98504-7600

**SUBJECT: B&L WOODWASTE SITE JULY 2020 COMPLIANCE MONITORING REPORT**

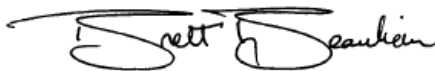
Dear Mr. Kourehdar:

On behalf of the B&L Woodwaste Custodial Trust, we are submitting the results of compliance monitoring completed at the B&L Woodwaste site in July 2020.

Groundwater sampling and analysis were completed in accordance with the 2013 Compliance Monitoring Plan and 2017 Compliance Monitoring Plan Addendum, as adjusted following Ecology requests and the addition of MW-41 and MW-42 to the monitoring network. A Compliance Screening Tier 1 data quality review was performed on arsenic data resulting from laboratory analysis. Data were determined to be of acceptable quality for use as reported by the laboratory. The results are presented in the enclosed table, figure, and attachments.

We look forward to discussing the results with you.

Sincerely,  
**FLOYD | SNIDER**



Brett Beaulieu, LHG  
Hydrogeologist

Encl.: Table 1 Groundwater Arsenic Results  
Figure 1 July 2020 Groundwater Arsenic Results  
Attachment 1 Time Concentration Plots  
Attachment 2 Laboratory Analytical Reports  
Copies: Dan Silver, B&L Woodwaste Custodial Trustee

**Table**

**Table 1**  
**Groundwater Arsenic Results <sup>(1)</sup>**

Sample Location	Upper Sand Aquifer																										Lower Sand Aquifer							
	Total Arsenic (µg/L)																										Total Arsenic (µg/L)							
	D-5U	D-6A	D-7A	D-8A	D-9A	D-10A	MW-13	MW-15	MW-30	MW-31A	MW-33	MW-34	MW-35	MW-41	MW-42	PD-60	PD-141	PD-214	PZ-3A	PZ-4A	PZ-5A	R-14	R-15	R-22	R-23	W-1	W-3	D-5L	D-6B	D-7B	D-8B	MW-40B		
<b>Compliance Monitoring Events</b>																																		
July 2020	NS	NS	NS	219	NS	NS	NS	NS	NS	NS	128	7.39	NS	45.8	64.7	NS	NS	6.72	165	4.36	319	NS	NS	NS	NS	5.73	NS	NS	NS	NS	6.72	8.45		
April 2020	15.8	NS	314	222	NS	NS	209	175	NS	NS	81.5	7.10	NS	83.3	88.2	NS	122	5.51	142	4.67	229	NS	NS	NS	NS	4.95	NS	NS	NS	NS	6.62	8.32		
January 2020	NS	NS	NS	272	NS	NS	NS	NS	NS	NS	102	8.75	NS	97.7	84.2	NS	NS	6.14	125	4.84	378	NS	NS	NS	NS	11.2	NS	NS	NS	NS	11.6	9.44		
October 2019	28.8	61.2	125	187	44.1	194	198	195	118	2.24	125	7.76	20.0	91.0	105	32.3	175	4.99	177	4.89	336	81.7	NS	NS	NS	21.6	8.27	3.32	3.01	3.03	4.95	8.15	9.14	
July 2019	NS	NS	NS	181	NS	NS	NS	NS	NS	NS	181	8.11	NS	37.2	21.2	NS	NS	5.62	162	4.54	258	NS	NS	NS	NS	7.24	NS	NS	NS	NS	6.57	7.97		
April 2019	22.8	NS	82.9	209	NS	NS	226	169	NS	NS	160	8.47	NS	NS	NS	NS	178	6.50	182	8.48	223	NS	NS	NS	NS	4.38	NS	NS	NS	NS	8.06	9.41		
January 2019	NS	NS	NS	198	NS	NS	NS	NS	NS	NS	146	7.40	NS	NS	NS	NS	NS	5.68	123	4.93	325	NS	NS	NS	NS	3.67	NS	NS	NS	NS	7.90	9.90		
October 2018	32.9	29.6	47.6	89.6	43.9	252	146	179	84.1	2.12	206	7.56	23.2	NS	NS	37.0	211	5.48	274	5.20	318	101	384 <sup>(2)</sup>	455	67.6	4.50	3.73	3.57	3.73	5.10	8.67	8.70		
July 2018	NS	NS	NS	152	NS	NS	NS	NS	NS	NS	188	9.19	NS	NS	NS	NS	NS	6.37	196	6.89	316	NS	503 <sup>(2)</sup>	NS	NS	9.96	NS	NS	NS	NS	9.05	10.3		
April 2018	26.6	NS	-- <sup>(3)</sup>	133	NS	NS	122	153	NS	NS	188	10.6 <sup>(4)</sup>	NS	NS	NS	NS	194	10.8	170	6.98	317	NS	392 <sup>(2)</sup>	NS	NS	10.5	NS	NS	NS	NS	8.22	11.1		
January 2018	NS	NS	NS	75.5	NS	NS	NS	NS	NS	NS	124	9.28	NS	NS	NS	NS	NS	8.73	176	5.40	559	NS	443 <sup>(2)</sup>	NS	NS	10.4	NS	NS	NS	NS	8.23	9.75		
October 2017	32.4	53.1	24.5	74.9	48.8	336	221	153	112	2.77	323	9.76	39.3	NS	NS	NS	240	12.5	563	6.03	706	NS	539 <sup>(2)</sup>	NS	NS	10.7	NS	4.24	4.82	6.08	9.46	10.7		
August 2017	NS	NS	NS	97.4	NS	NS	NS	NS	NS	NS	372	9.10	NS	NS	NS	NS	NS	10.6	215	6.33	NS	NS	NS	NS	13.7	NS	NS	NS	NS	8.34	9.95			
April 2017	23.7	NS	30.0	143	NS	NS	270	104	NS	NS	388	9.10	NS	NS	NS	NS	324	13.3	NS	NS	NS	NS	NS	NS	NS	12.0	NS	NS	NS	NS	12.2	10.2		
October 2016	43.6	NS	29.5	71.6	48.2	300	632	85.3	176	3.10	458	NS	31.4	NS	NS	NS	451	NS	NS	NS	643	NS	NS	NS	NS	18.6	NS	4.15	NS	6.02	12.4	9.71		
April 2016	22.8	50.2	33.9	108	41.0	273	1,200	183	170	2.70	431	NS	32.4	NS	NS	NS	413	NS	NS	NS	347	NS	NS	NS	NS	9.00	NS	4.00	3.50	5.80	10.9	8.00		
October 2015	21.1	60.3	37	87.9	43.0	300	1,220	752	139	2.4	423	NS	29.8	NS	NS	NS	441	NS	NS	NS	610	NS	NS	NS	NS	13.5	NS	3	3	5	10.9	7.1		
April 2015	22	47.8	45	342	42.0	354	1,580	1,070	204	4.1	399	NS	25.8	NS	NS	NS	407	NS	NS	NS	NS	NS	NS	NS	NS	10.1	NS	4	4	5	9.3	8.4		
October 2014	16.3	50.4	57	107	43.6	318	1,650	1,130	117	3.4	436	NS	23.2	NS	NS	NS	323	NS	NS	NS	NS	NS	NS	NS	NS	11.2	NS	3	4	4	10.7	NS		
April 2014	17.6	63.7	49	415	37.2	183	1,430	1,260	136	5.4	376	NS	23.2	NS	NS	NS	326	NS	NS	NS	NS	NS	NS	NS	NS	10.1	NS	3	4	4	10.5	NS		
October 2013	12.4	107	54	168	40	181	1,740	1,220	174	5.3	404	NS	21.9	NS	NS	NS	302	NS	NS	NS	NS	NS	NS	NS	NS	12	NS	4	3.6	5	13.9	NS		
April 2013	16.5	163	30	363	38.0	199	1,910	1,580	252	6.6	398	NS	23.8	NS	NS	NS	296	NS	NS	NS	NS	NS	NS	NS	NS	10.9	NS	3	5	5	16.6	NS		
October 2012	40.8	184	17	196	40	231	2,350	1,580	261	12.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	3.0	5	155	NS	NS		
April 2012	43.8	287	61	137	38	107	2,180	1,480	305	18.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	4	5	370	NS	NS	
September 2011	86.3	885	23	99.6	38	213	2,520	1,520	640	21.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	4	5	28.2	NS	NS	
April 2011	90	1,170	32	126	39	203	2,720	1,610	854	5.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	3	5	21.2	NS	NS	
October 2010	86.4	1,290	41	34	37	211	2,220	1,460	1,580	5.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	3	5	6.1	NS	NS	
April 2010	100	1,370	27	31.1	37	159	2,450	1,610	2,410	15.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	4	5	12.8	NS	NS	
October 2009	113	1,320	38	39.8	37	202	2,220	1,390	2,060	16.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	2	5	11	NS	NS	
April 2009	144	1,490	331	68.2	38	175	2,340	1,630	2,190	22.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	3	5	11.1	NS	NS	
October 2008	143	1,430	98	37.7	38	204	2,510	1,720	2,270	22.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	2	5	12.2	NS	NS	
<b>Historical Events</b>																																		
March 2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
August 2006	89	1,900	56	450	38	200	3,800	3,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
September 2005	132	1,790	50 U	86.1	50 U	266	3,530	1,810	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
March 2005	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7	2.5 U	5	21.2	NS	NS	
December 2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6	5 U	6	21	NS	NS	
September 2003	190	1,900	5	110	31	300	4,600	2,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6	5	8	20	NS	NS	
June 2003	240	1,800	5 U	370	38	270	4,600	2,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	5 U	6	30	NS	NS	
March 2003	230	1,700	5 U	330	38	240	4,300	2,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	30	NS	NS	
December 2002	230	1,600	5 U	58	36	310	4,500	2,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	NS	
September 2002	220	1,600	5 U	97	35	280	4,500	2,300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5	20	NS	NS	
June 2002	240	1,800	5	280	38	260	4,700	2,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	6	30	NS	NS	
April 2002	300	1,800	5 U	400	50	300	4,300	2,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5	30	NS	NS	
December 2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	8	5 U	30	NS	NS	
June 2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	4	6	30	NS	NS	
March 2001	280	1,800	3	130	39	230	4,300	2,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	3	6	30	NS	NS	

**Table 1**  
**Groundwater Arsenic Results <sup>(1)</sup>**

Sample Location	Upper Sand Aquifer																										Lower Sand Aquifer					
	Total Arsenic (µg/L)																										Total Arsenic (µg/L)					
	D-5U	D-6A	D-7A	D-8A	D-9A	D-10A	MW-13	MW-15	MW-30	MW-31A	MW-33	MW-34	MW-35	MW-41	MW-42	PD-60	PD-141	PD-214	PZ-3A	PZ-4A	PZ-5A	R-14	R-15	R-22	R-23	W-1	W-3	D-5L	D-6B	D-7B	D-8B	MW-40B
<b>Historical Events (cont.)</b>																																
December 2000	280	2,100	3	62	39	270	5,300	3,100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	4	6	20	NS
September 2000	260	2,000	5	68	58	350	4,600	2,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	5	6	20	NS
June 2000	180	1,500	5 U	96	40	250	3,200	2,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	
March 2000	310	1,600	5 U	150	39	220	6,200	2,300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	
January 2000	300	1,400	5 U	130	40	240	4,300	2,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	6	30	NS	
September 1999	300	1,900	5 U	140	47	310	5,600	3,400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	5	6	20	NS	
June 1999	300	1,800	5 U	180	38	260	4,600	2,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	
March 1999	340	2,000	5 U	200	39	260	4,600	3,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	6	30	NS	
December 1998	320	980	6	100	38	260	5,700	3,200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	7	30	NS	
September 1998	290	1,800	5 U	150	52	340	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	
June 1998	320	1,900	5 U	69	42	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	20	NS	
March 1998	380	2,400	5 U	97	38	350	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	40	NS	
December 1997	480	2,600	5 U	130	41	490	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	7	60	NS	
September 1997	340	2,400	5 U	210	56	390	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	60	NS	
June 1997	390	2,200	5 U	200	49	350	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5	60	NS	
March 1997	360	1,900	5	110	36	340	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	7	60	NS	
January 1997	310	2,000	5 U	130	39	310	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	90	NS	
September 1996	300	2,000	5 U	260	73	470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	6	5	100	NS	
June 1996	NS	NS	5 U	130	49	470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	100	NS	
March 1996	NS	NS	5 U	150	39	420	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	100	NS	
December 1995	NS	NS	5 U	270	44	540	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	100	NS	
June 1995	300	2,200	5 U	170	55	540	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	200	NS	
March 1995	350	2,400	5 U	180	34	320	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	200	NS	
December 1994	312	2,494	5 U	130	42	492	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	300	NS	
August 1994	314	3,252	5 U	145	84	542	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	400	NS	
May 1994	307	2,745	5 U	133	39	363	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	9	700	NS	
January 1994	284	2,505	5 U	165	64	402	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U	5 U	800	NS	
May 1993	170	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20 U	NS	NS	NS	NS	
August 1990	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
December 1989	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
September 1989	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

- 1 Reported value is the maximum concentration per location, per sampling date.
- 2 Well development conducted during the July 2018 event indicated well damage, and associated sediment were biasing results high beginning in October 2017.
- 3 No results are reported. Results from sampling during the April 2018 event and follow-up sampling on May 22, 2018, are both biased high from elevated turbidity.
- 4 Results are from analyses of groundwater collected on May 22, 2018.

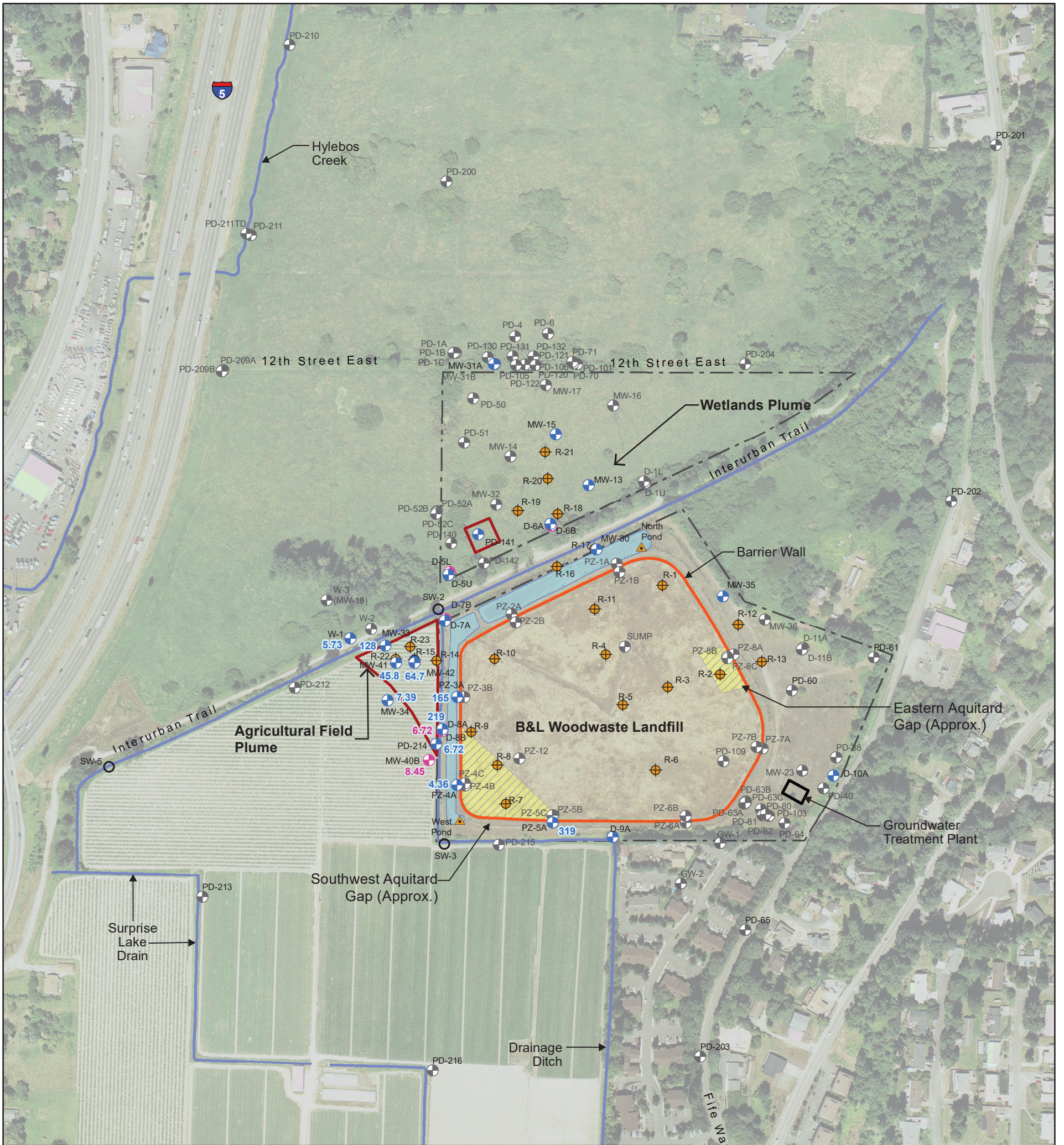
Abbreviations:

µg/L Micrograms per liter  
NS Not sampled

Qualifier:

U Analyte is undetected at given reporting limit.

**Figure**



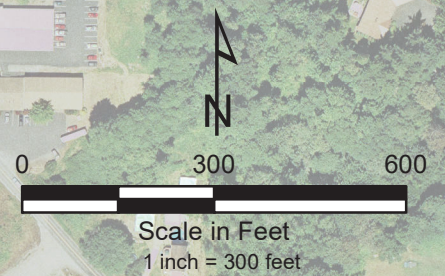
**Legend**

- W-1 Upper Sand Aquifer Monitoring Location
- D-7B Lower Sand Aquifer Monitoring Location
- SW-5 Compliance Surface Water Monitoring Location
- PD-216 Monitoring Well or Piezometer
- R-10 Recovery Well Location
- West Pond Pond Staff Gage Location
- 23.4** Total Arsenic Concentration (µg/L), Upper Aquifer
- 16.6** Total Arsenic Concentration (µg/L), Lower Aquifer

- 2017 In Situ Treatment Zones
- Conditional Point of Compliance (Barrier Wall)
- Property Boundary from Tax Parcel Data
- Stormwater Pond
- Surface Drainage Feature
- Aquitard Gaps

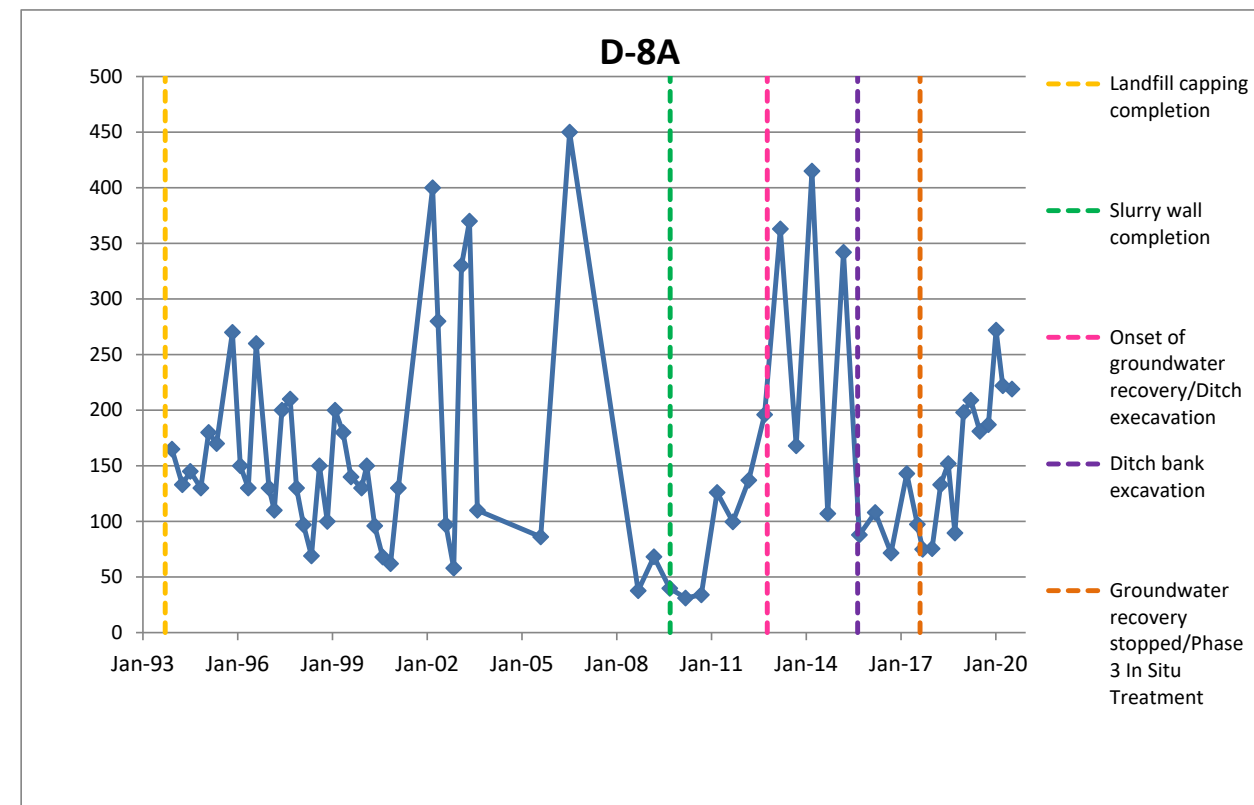
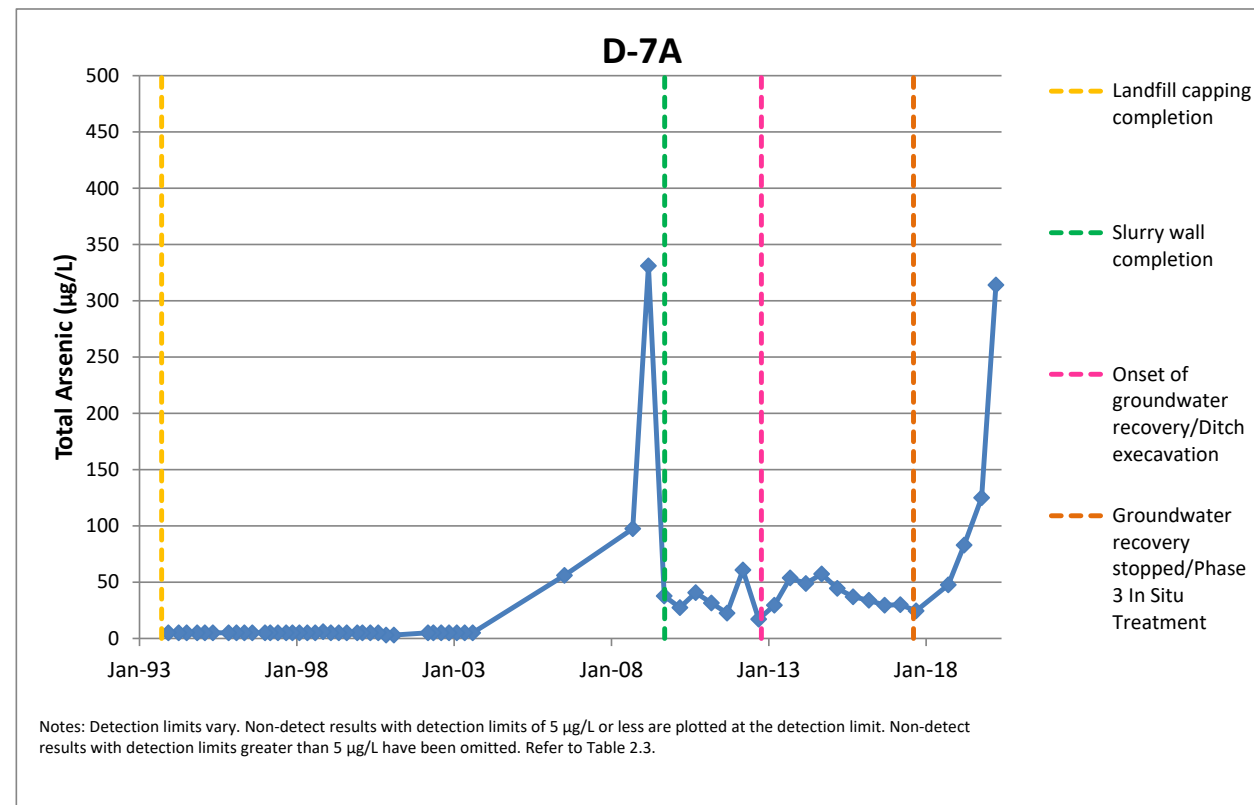
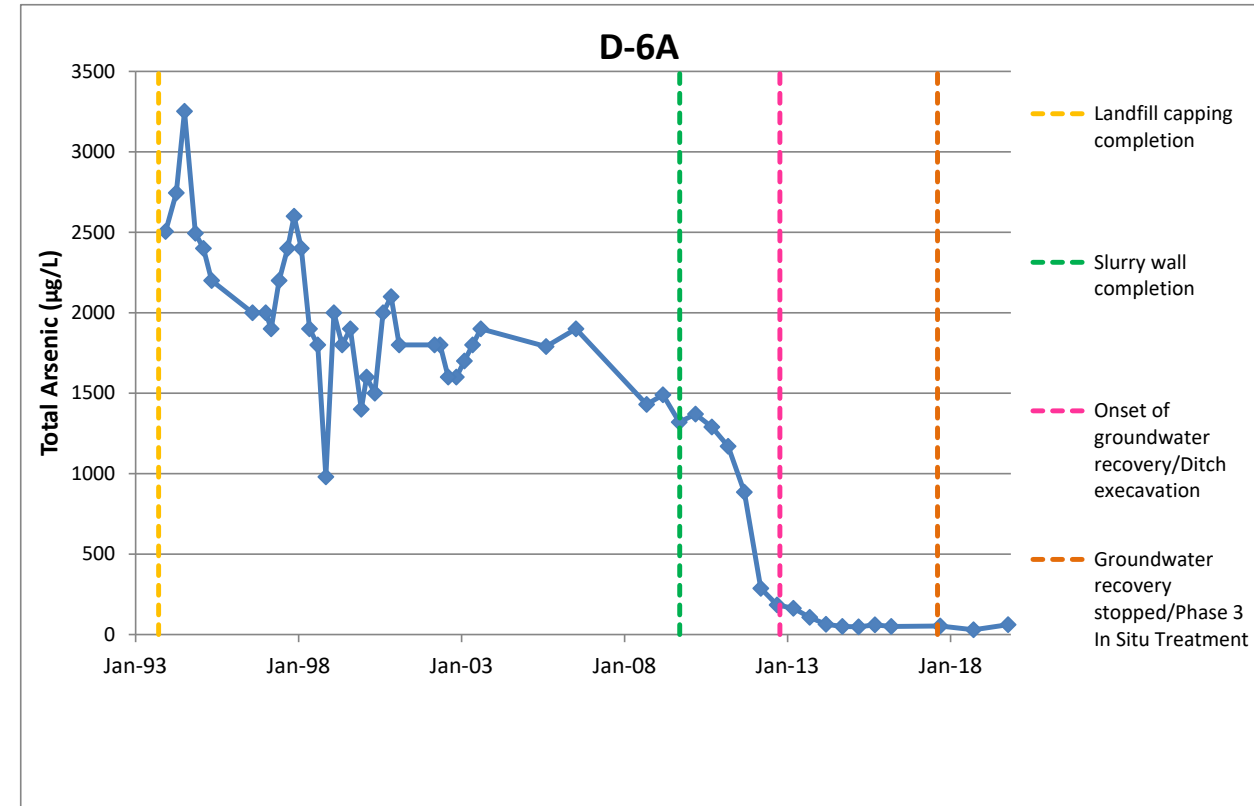
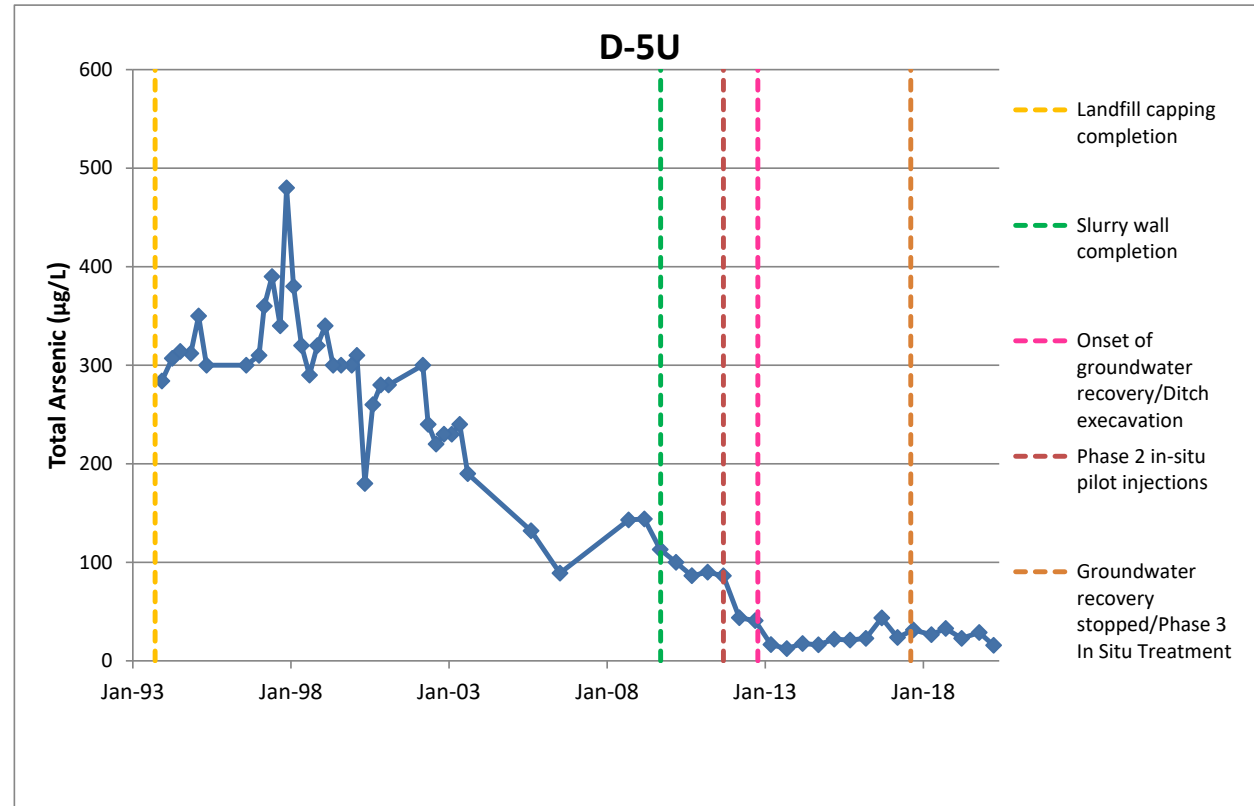
Notes:  
 · Orthoimage provided by USGS and dated June–July 2005.  
 · Hylebos Creek and other surface drainage feature locations shown were digitized from the 2005 orthoimage cited above.  
 · Black and white reproduction of this color figure may affect interpretation of the results.

Abbreviation:  
 µg/L = Micrograms per liter



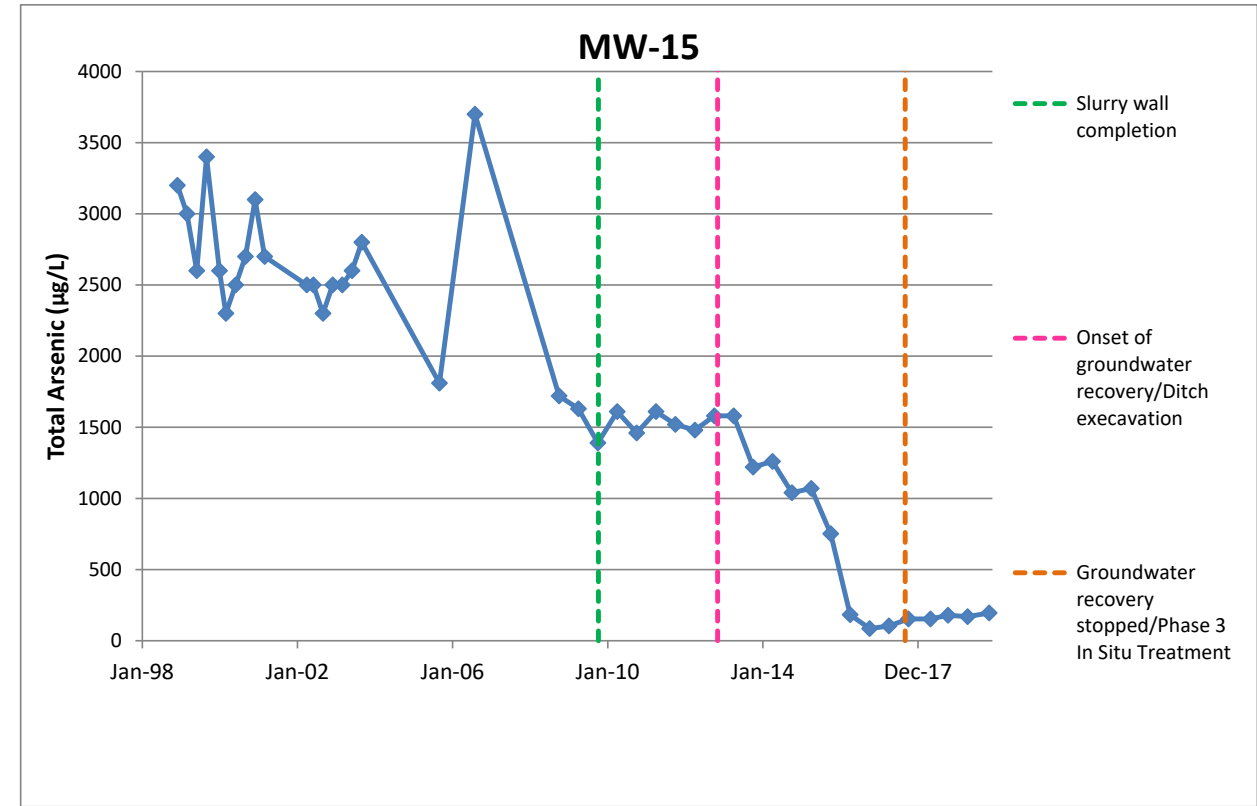
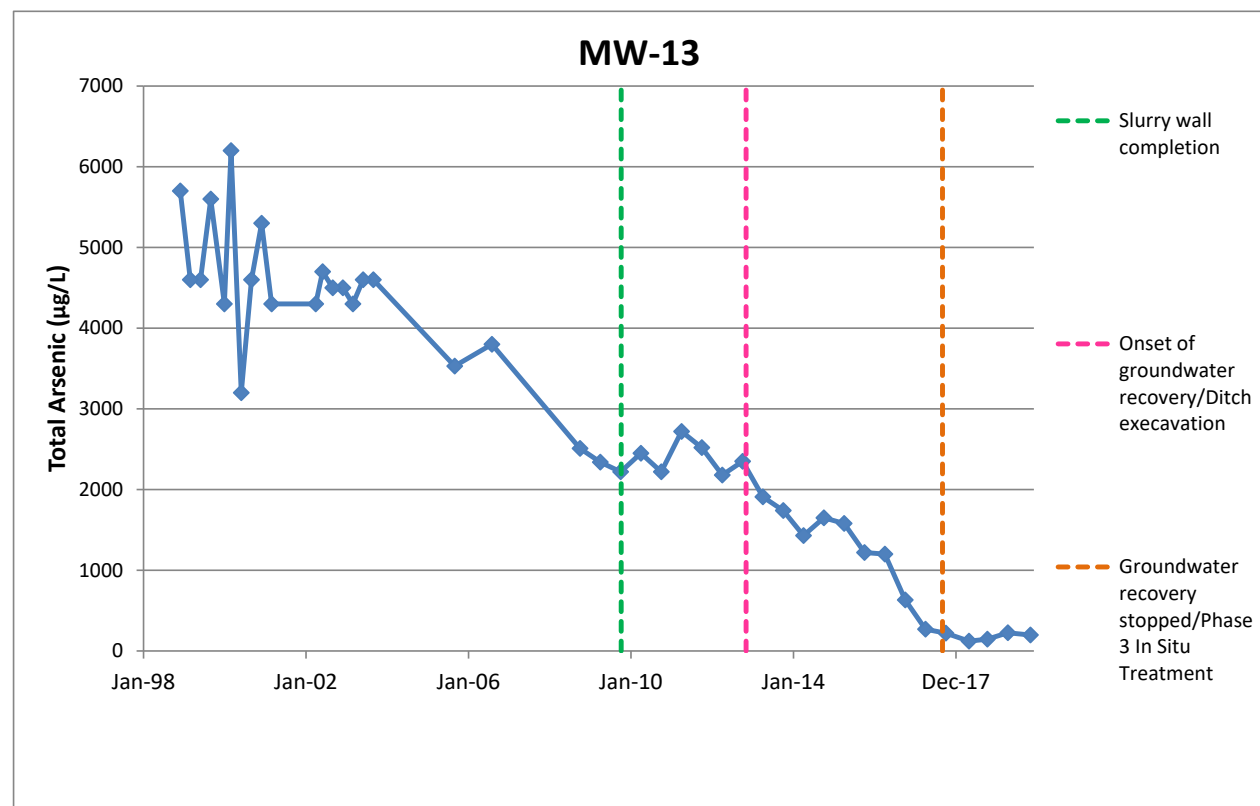
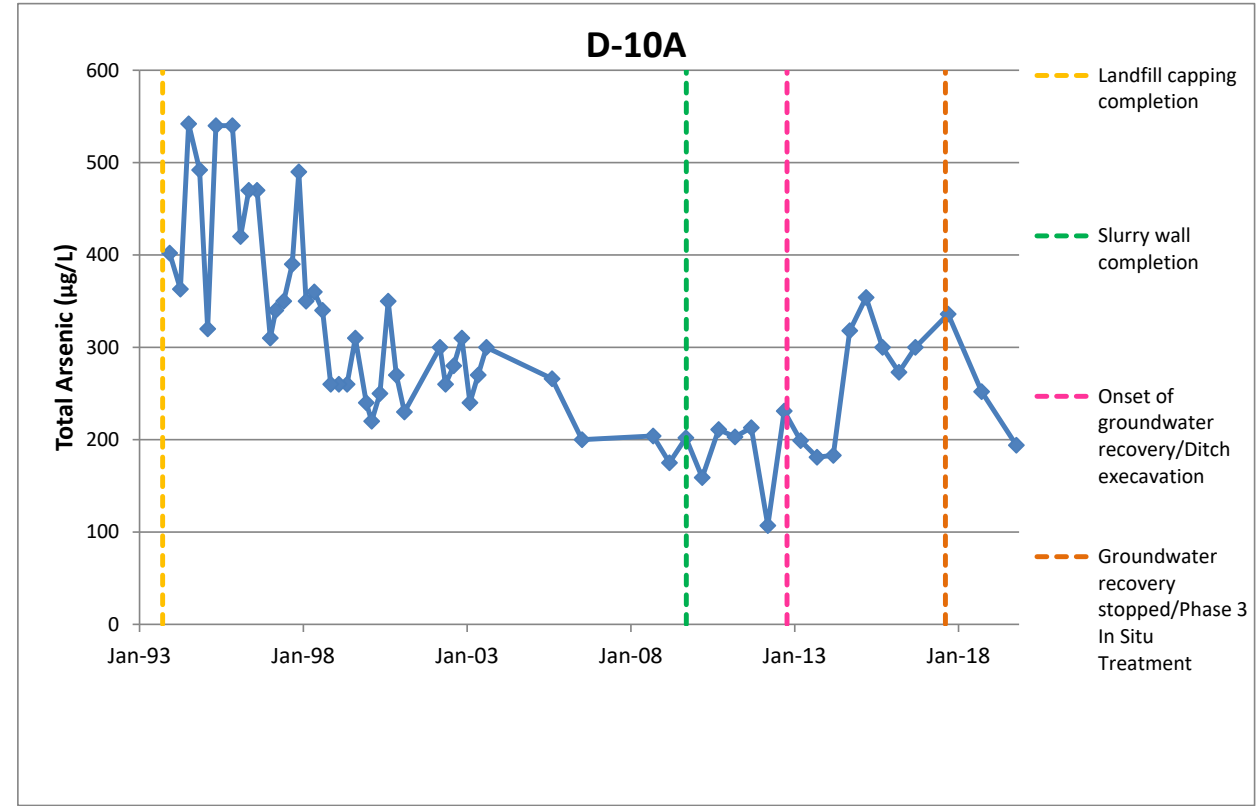
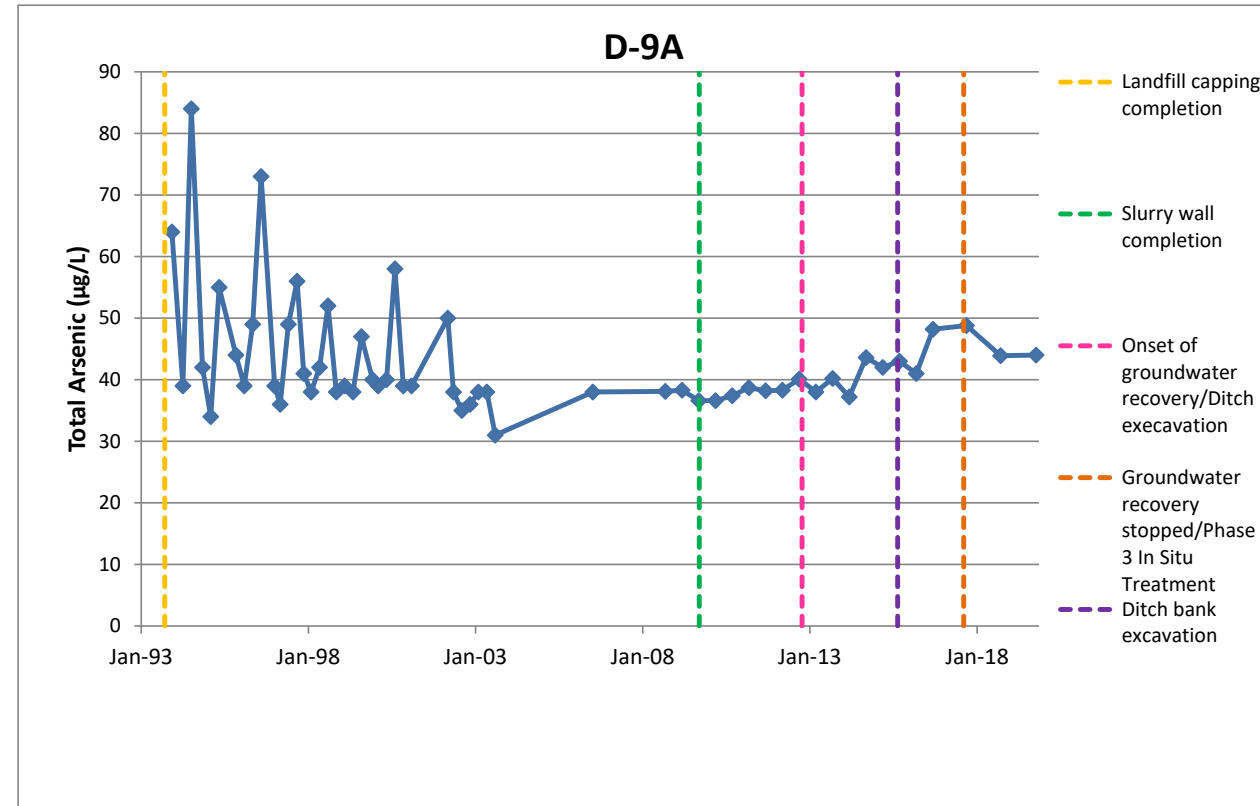
**Attachment 1**  
**Time Concentration Plots**

Attachment 1  
Time-Concentration Plots

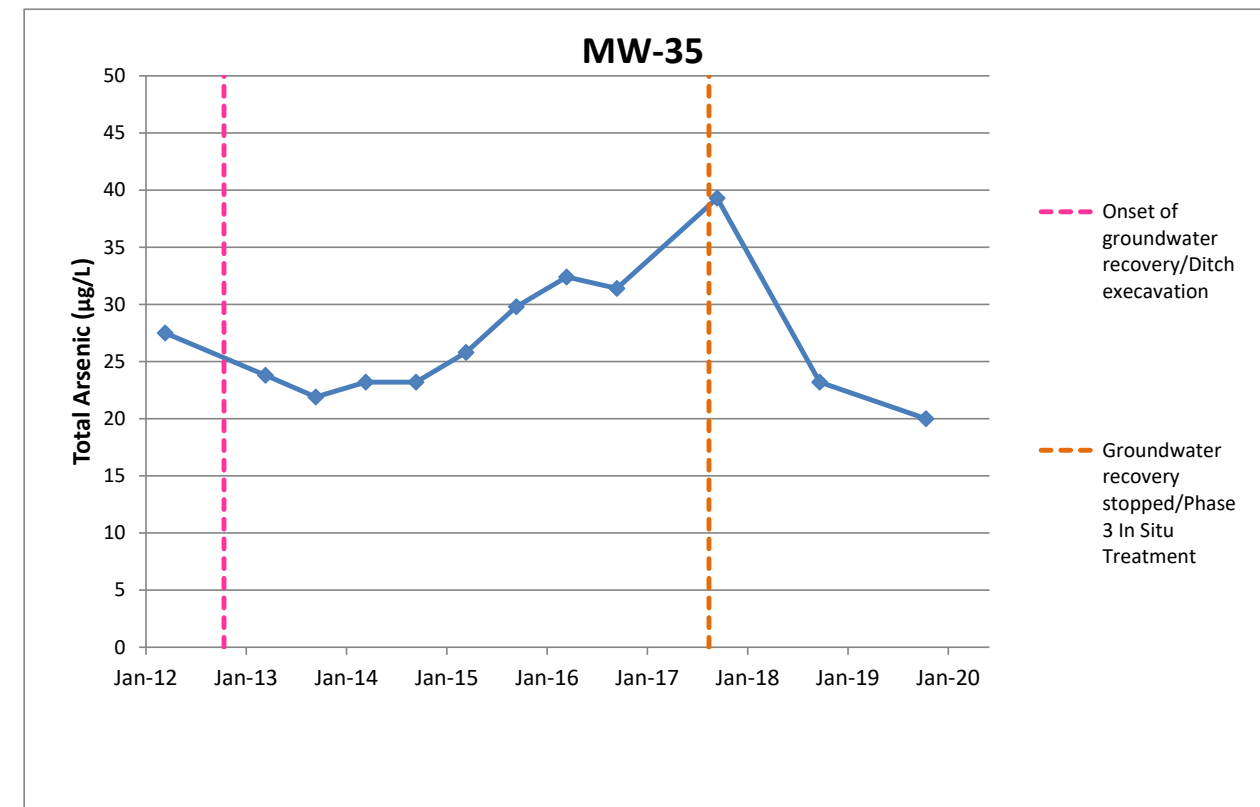
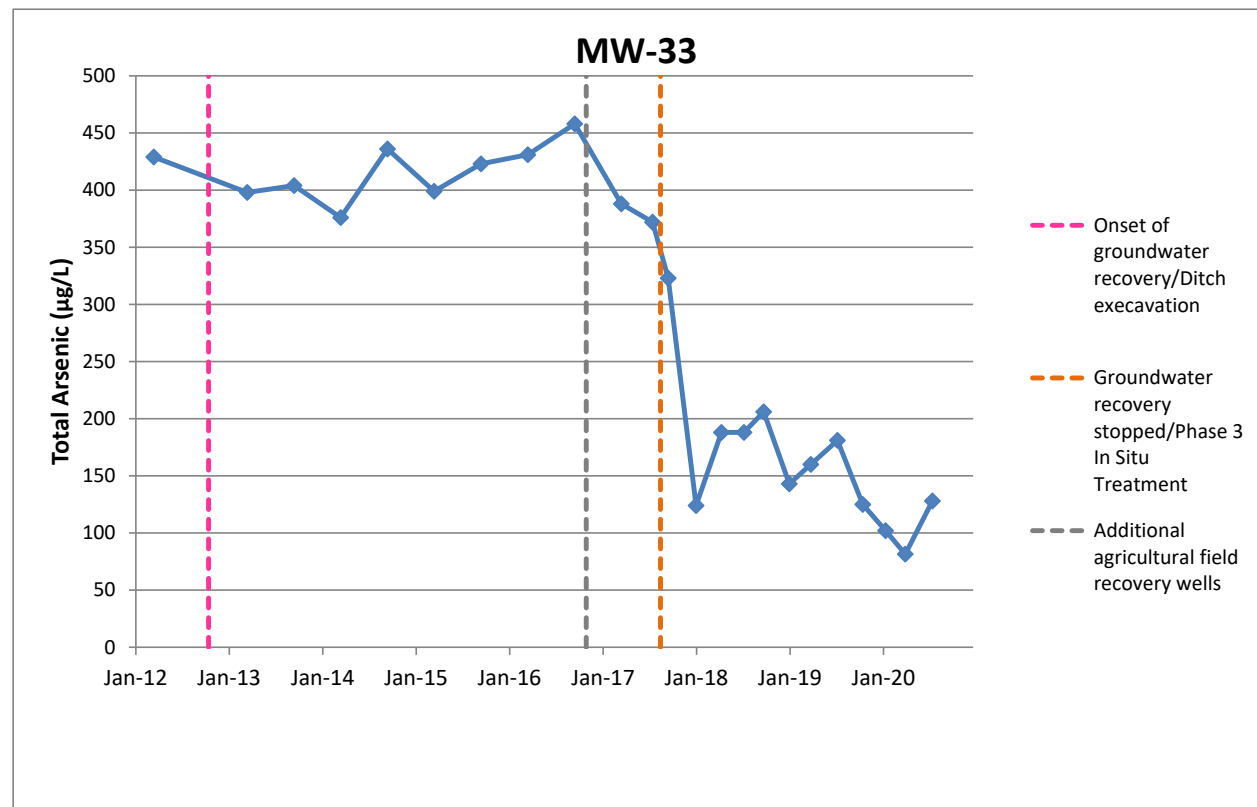
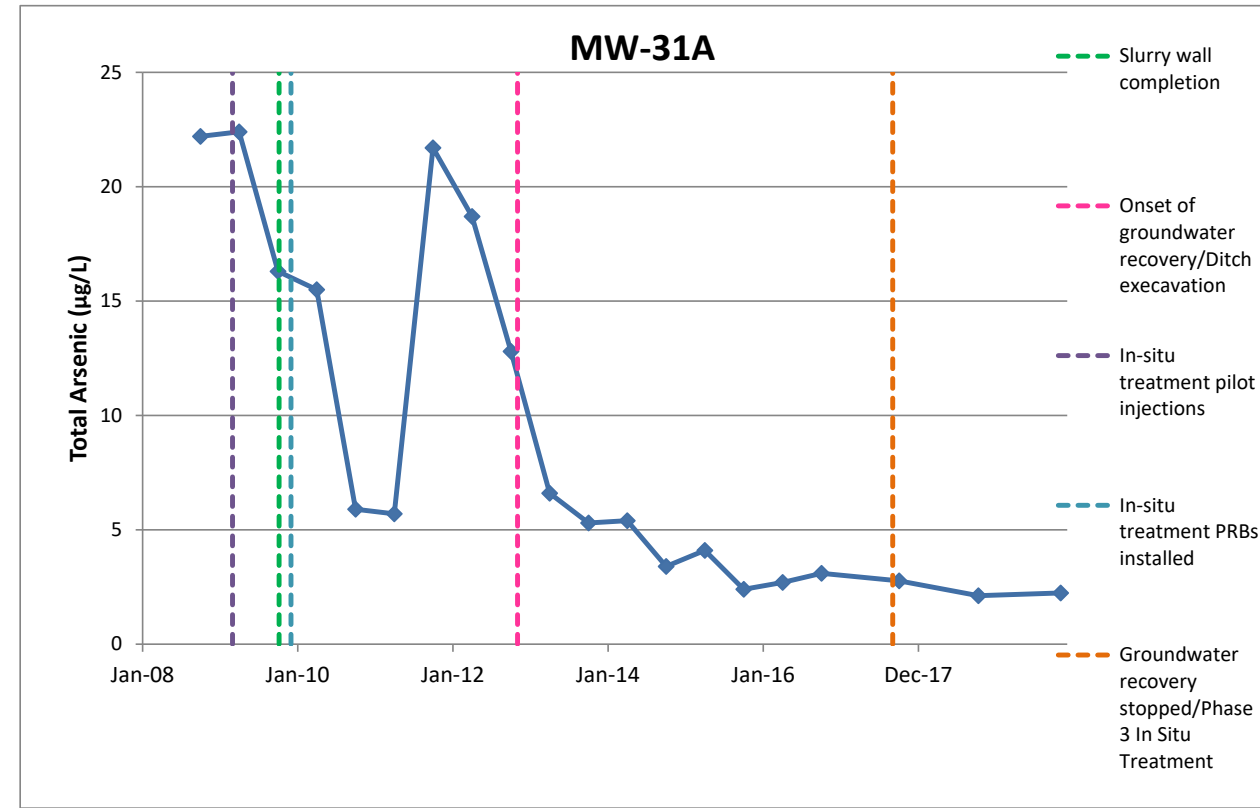
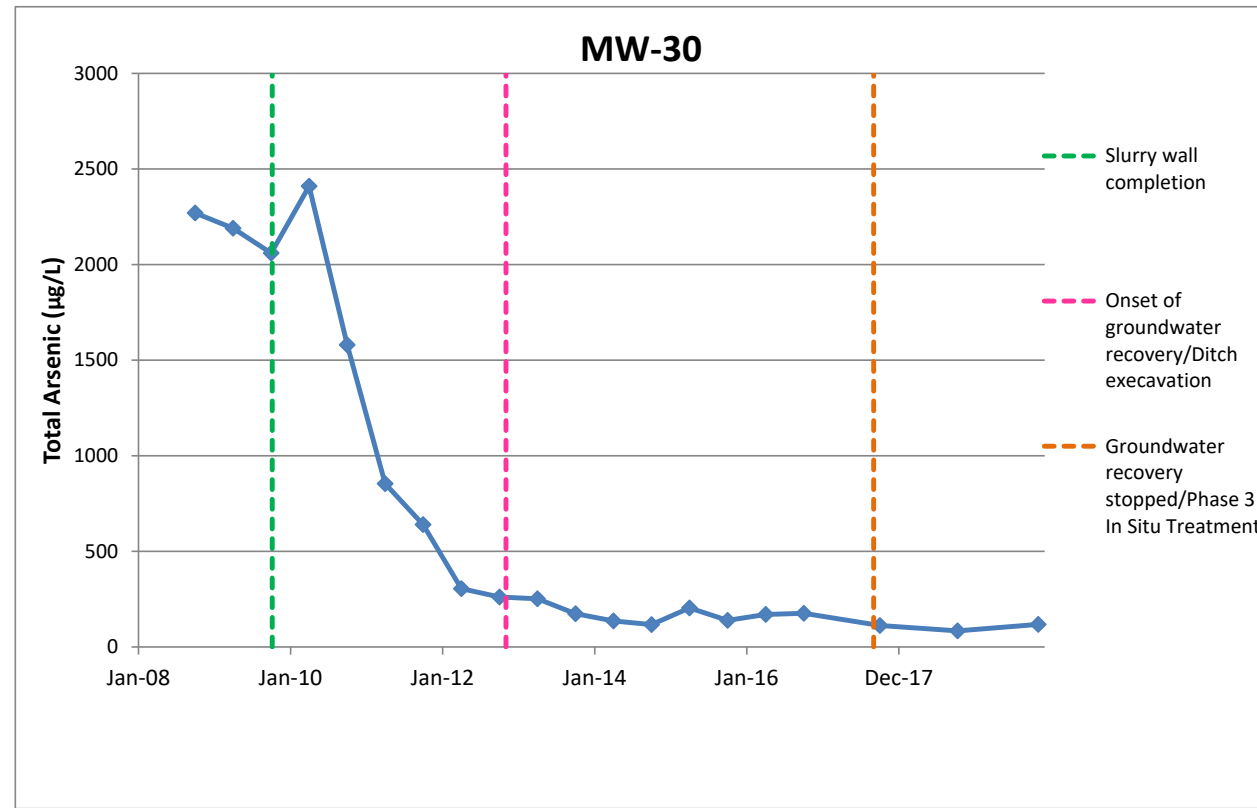




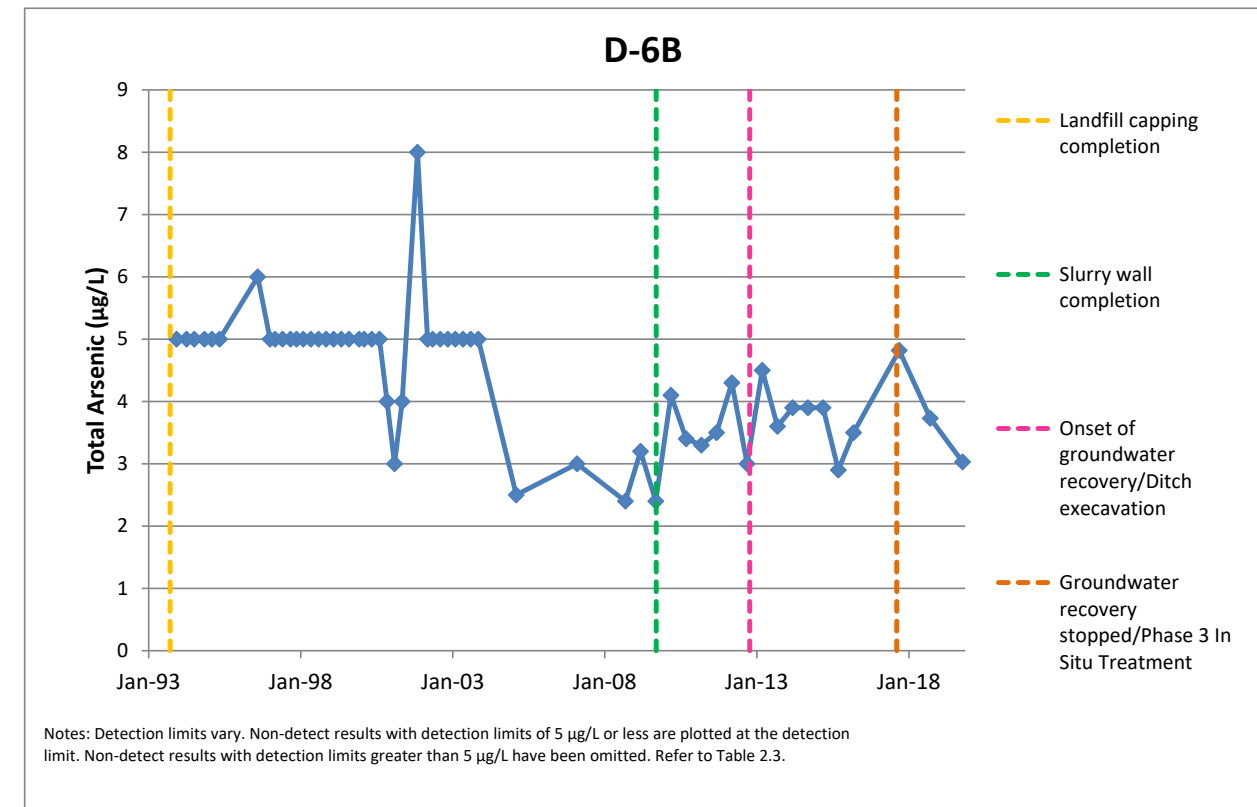
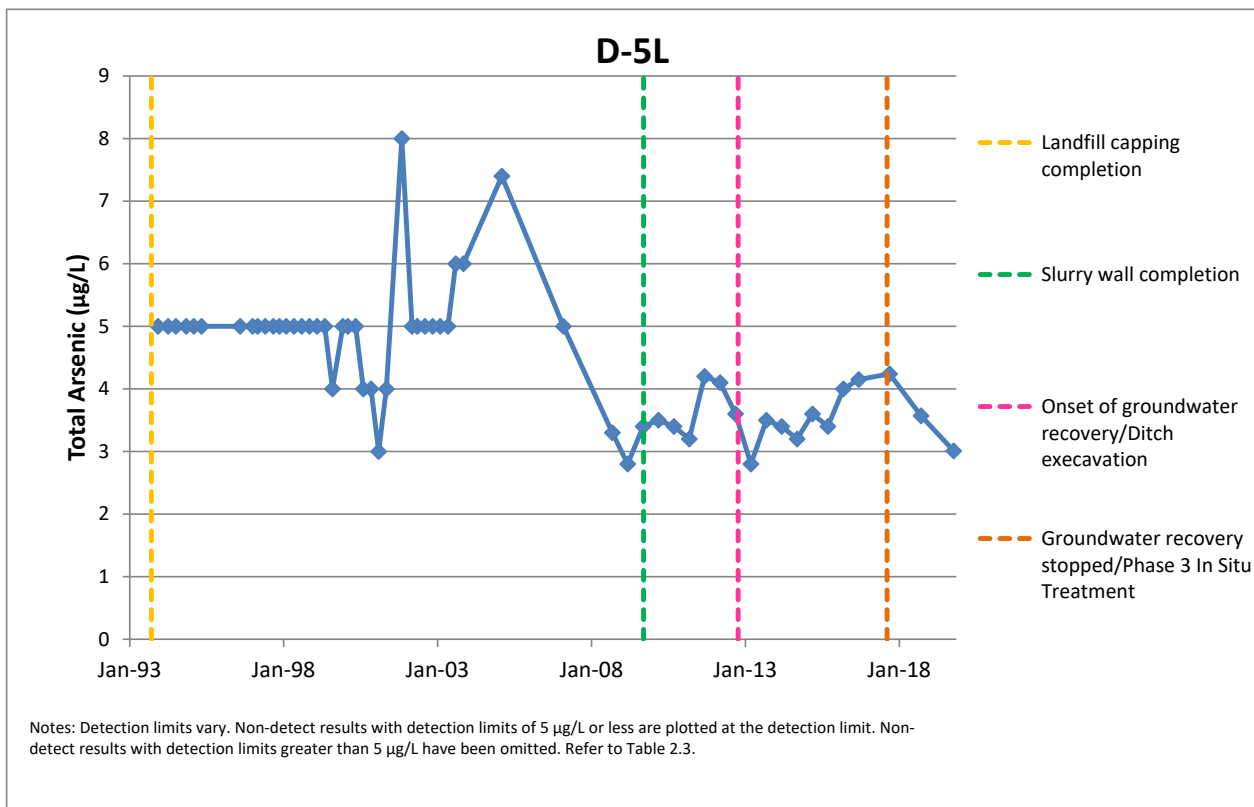
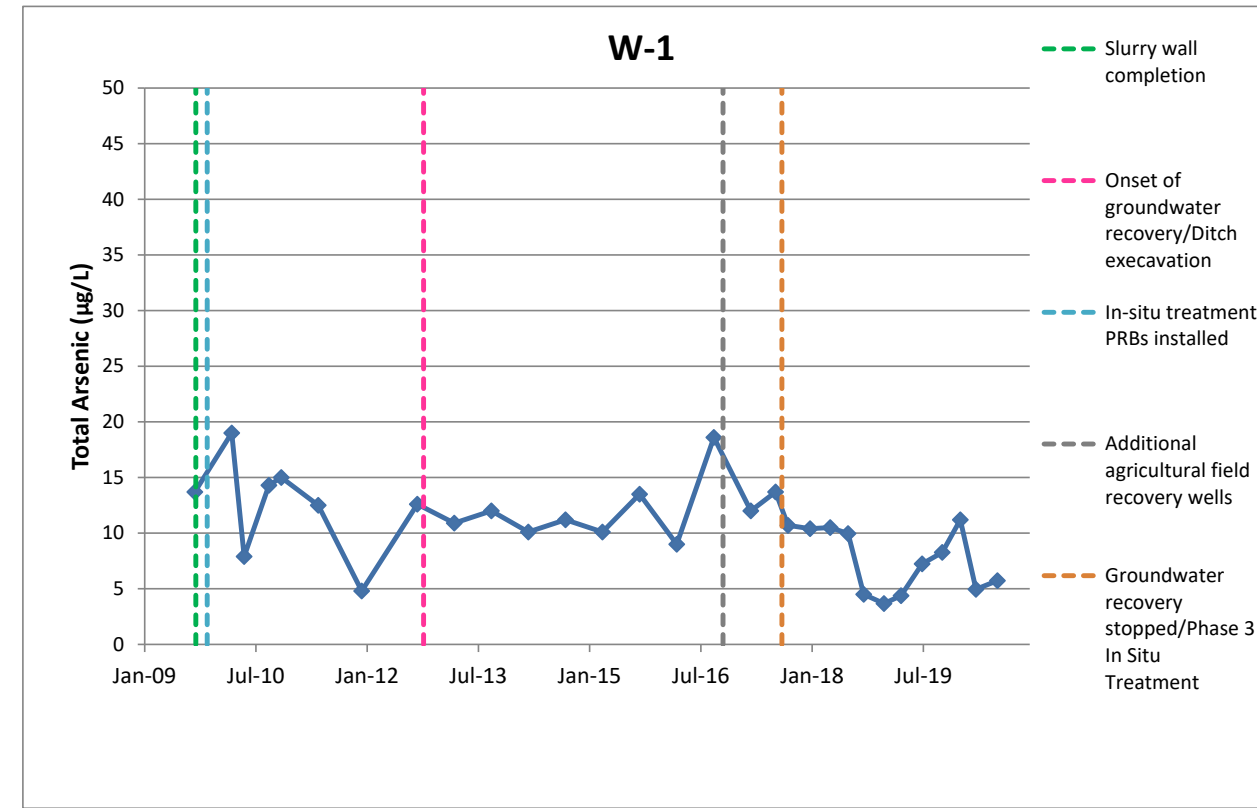
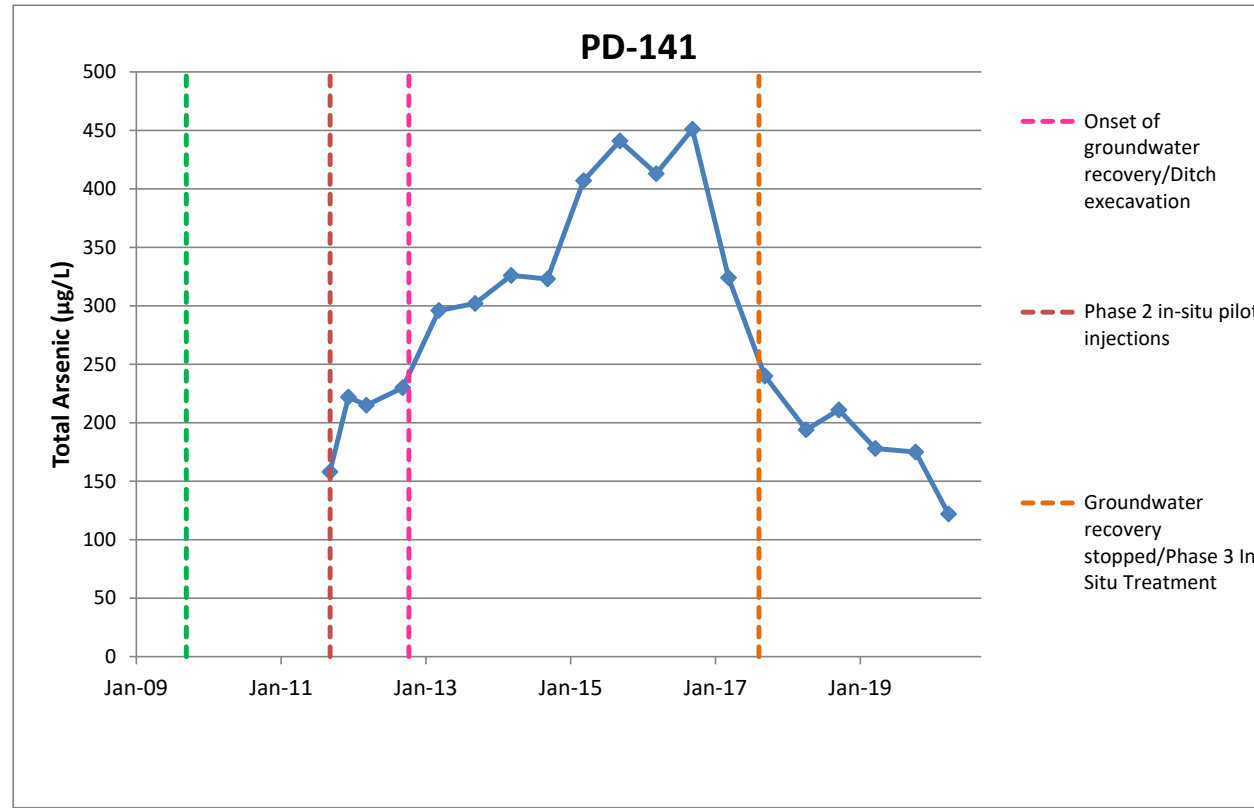
Attachment 1  
Time-Concentration Plots



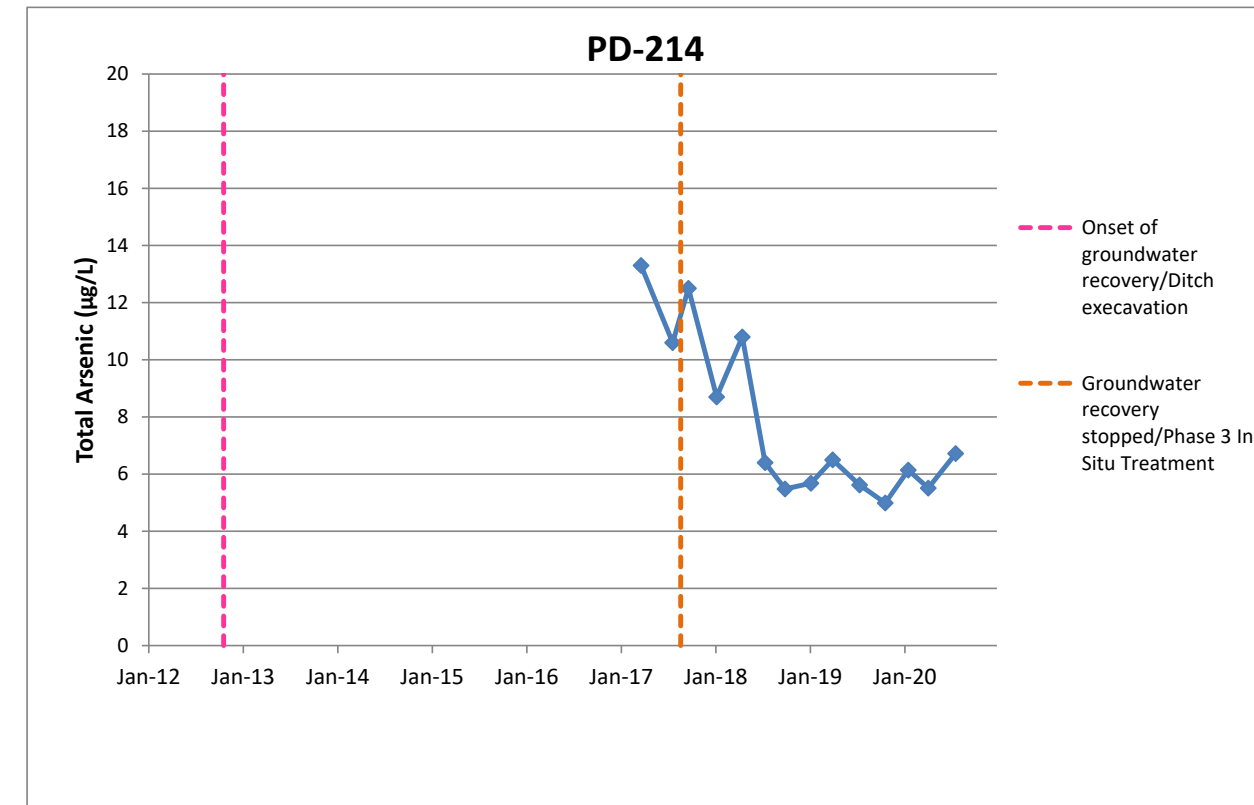
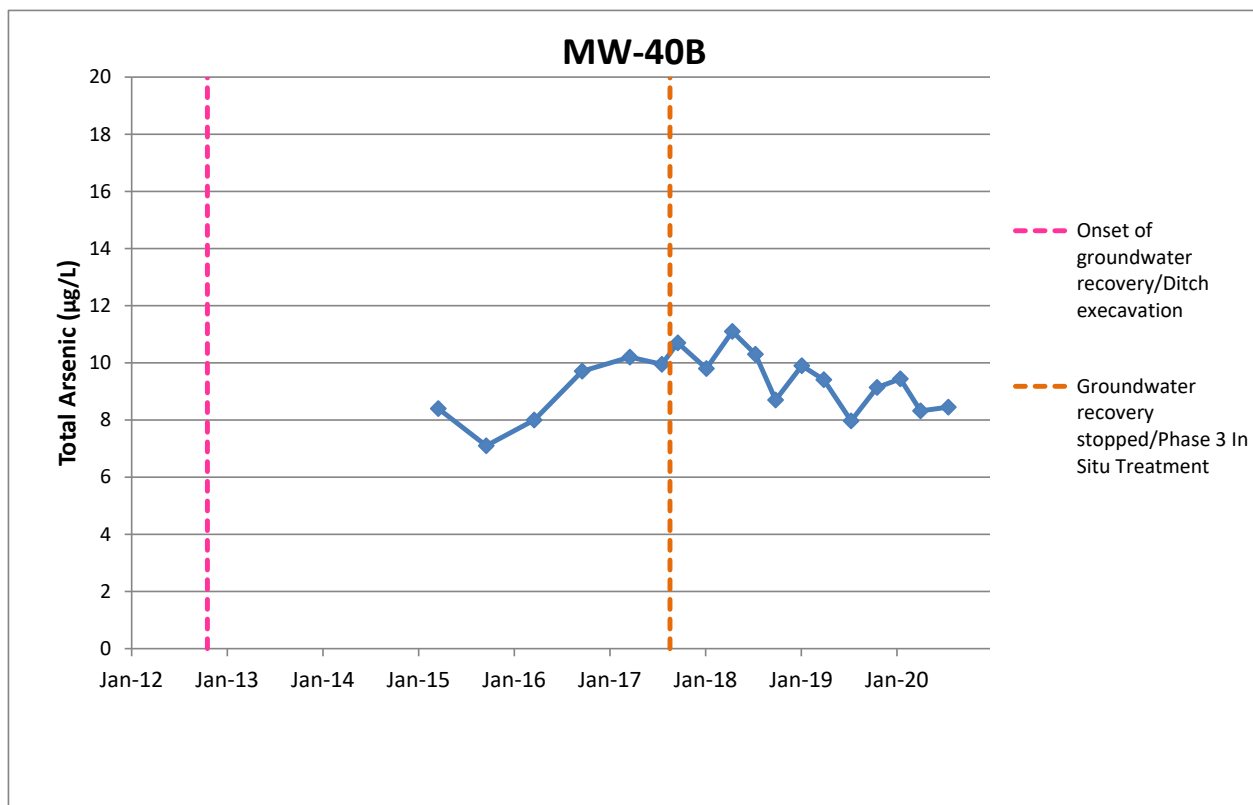
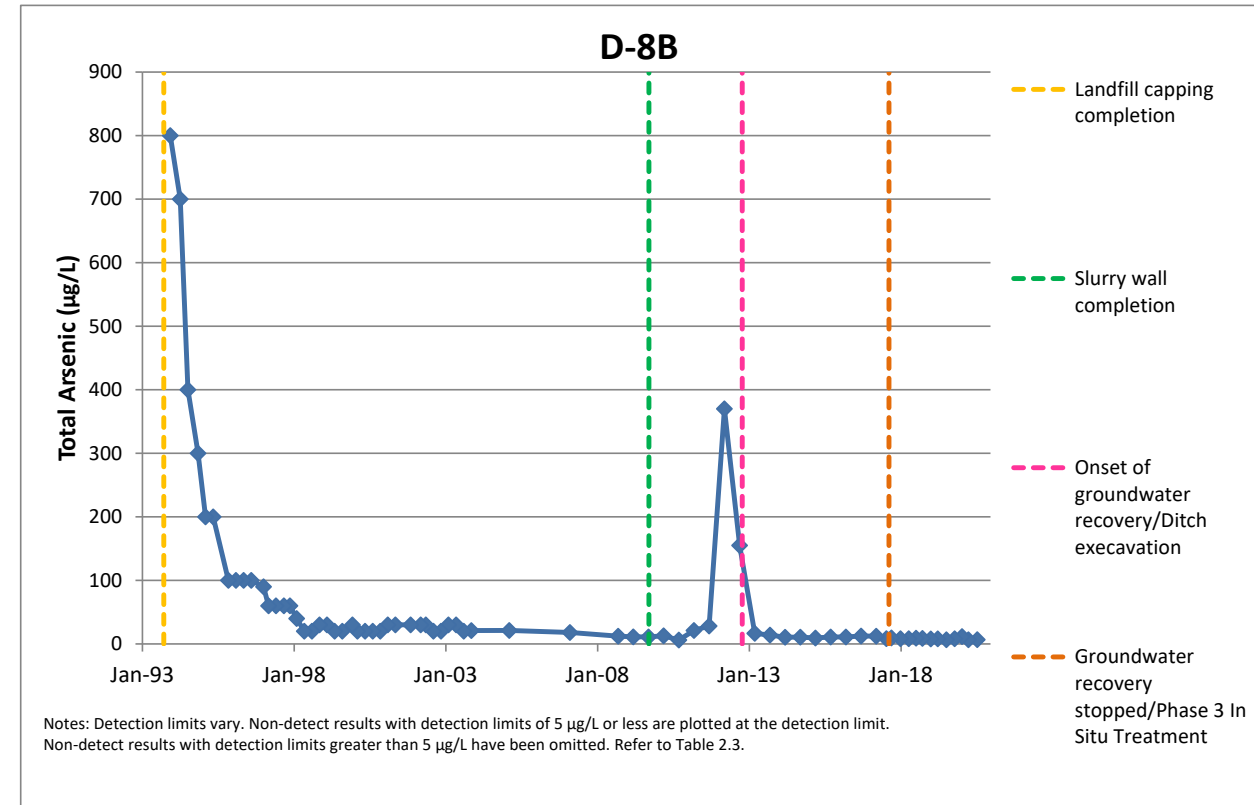
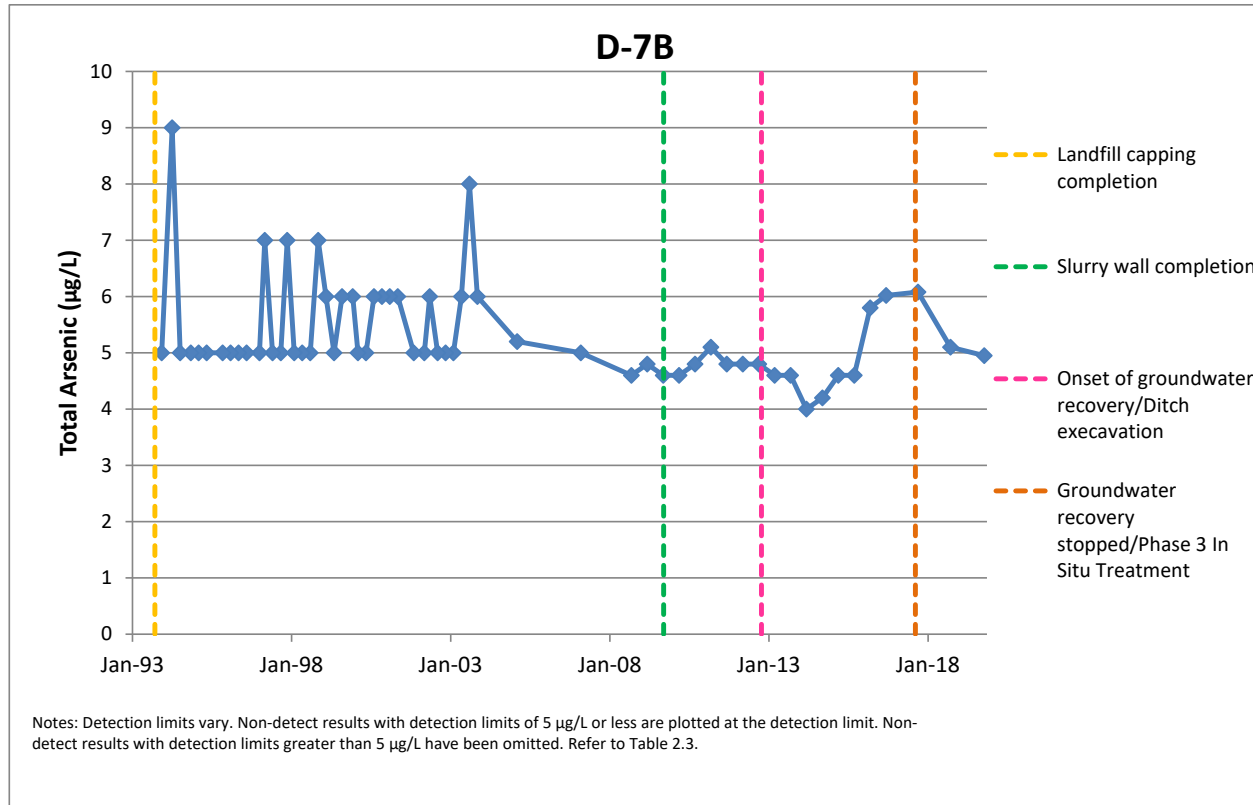
Attachment 1  
Time-Concentration Plots



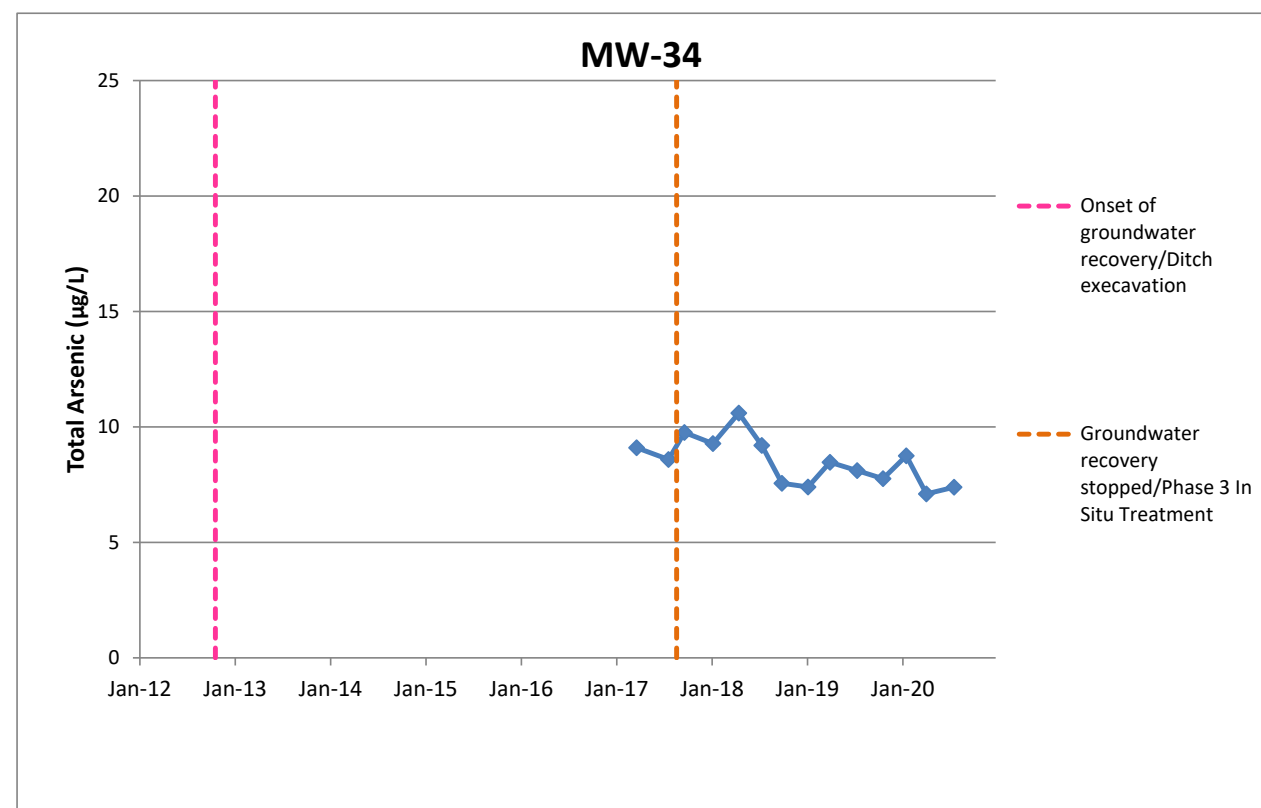
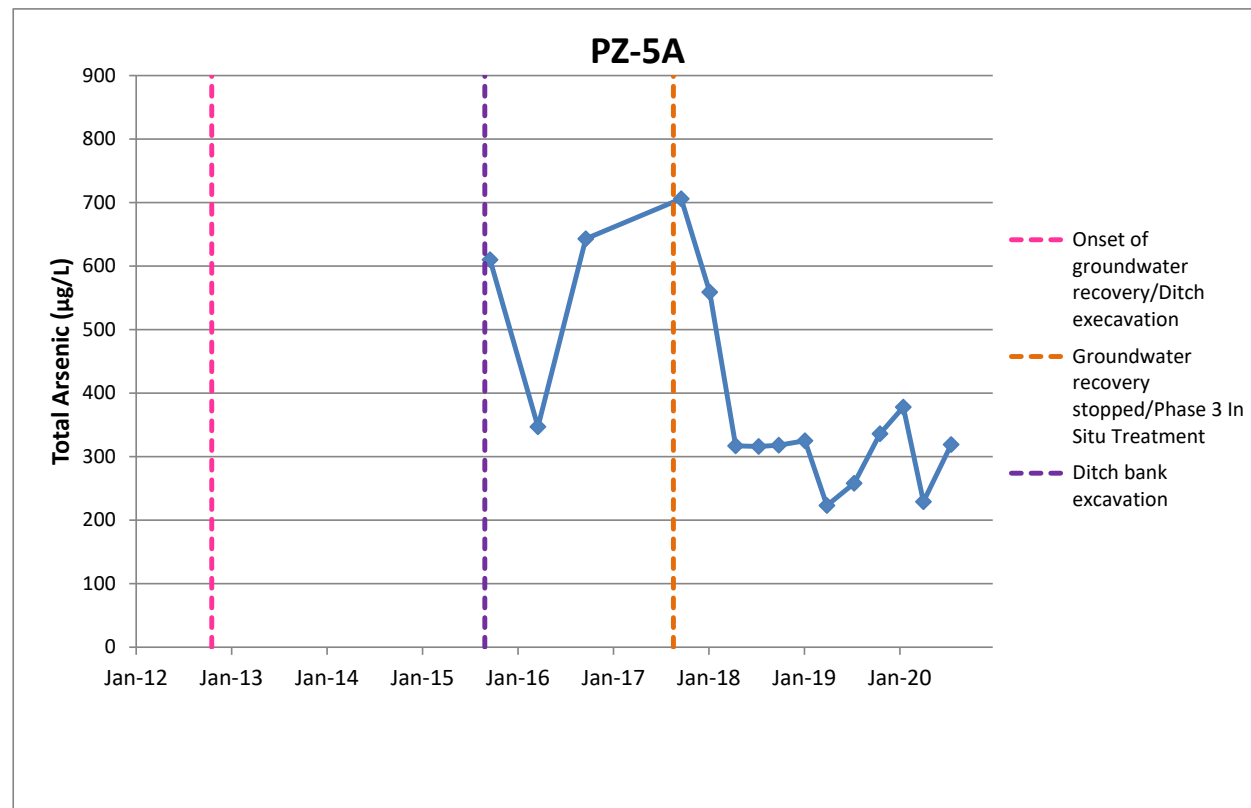
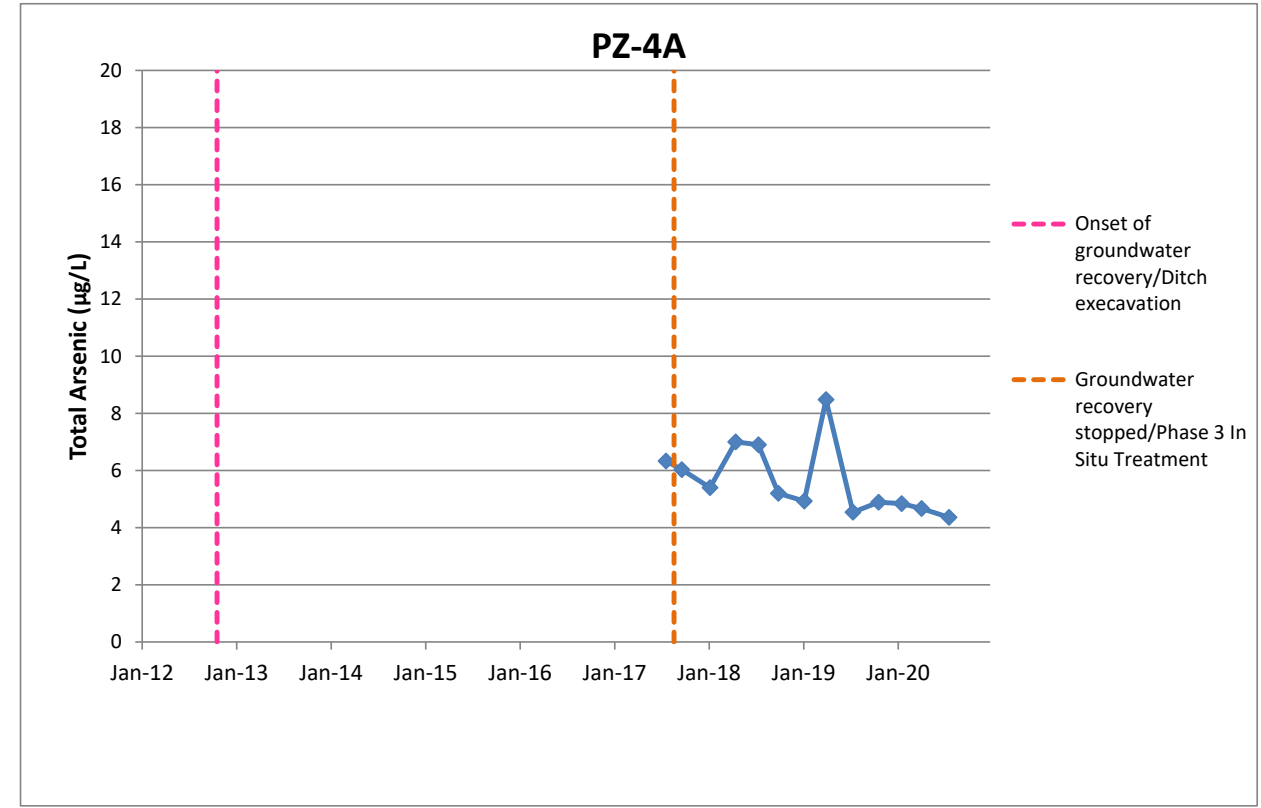
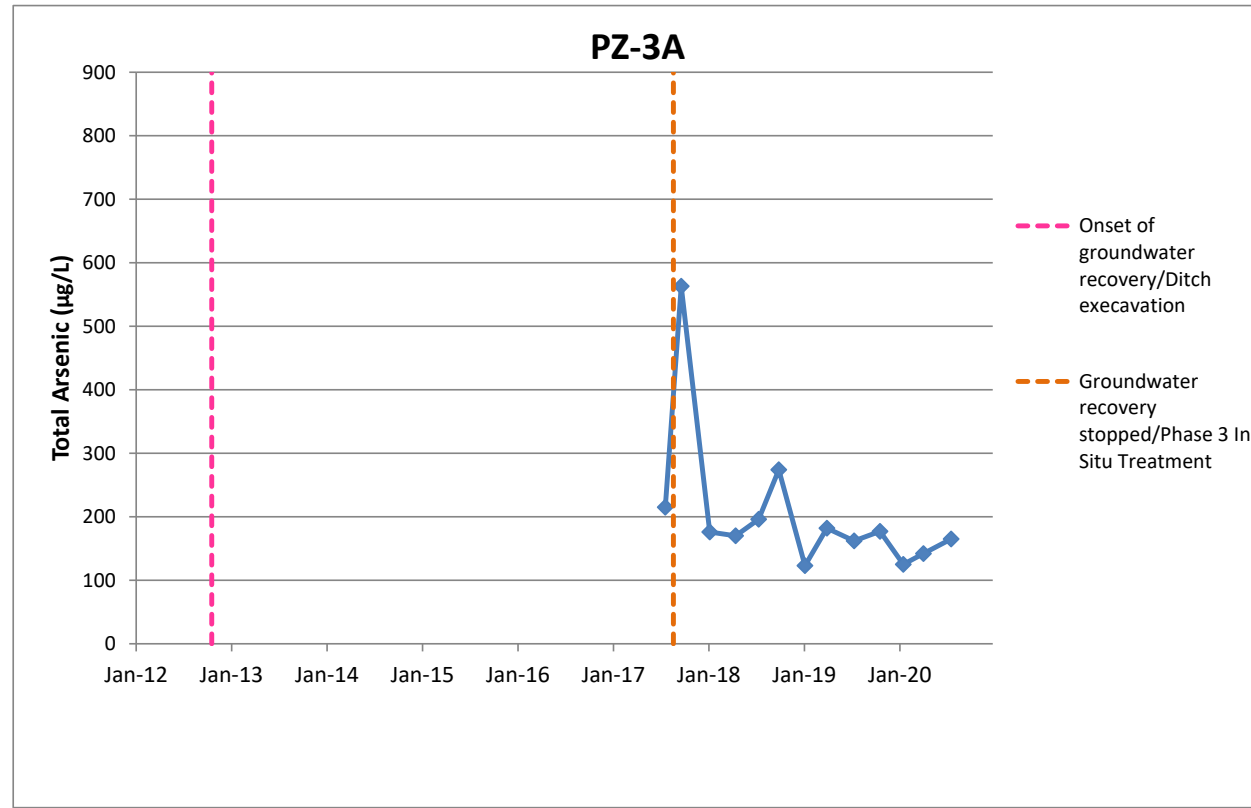
Attachment 1  
Time-Concentration Plots



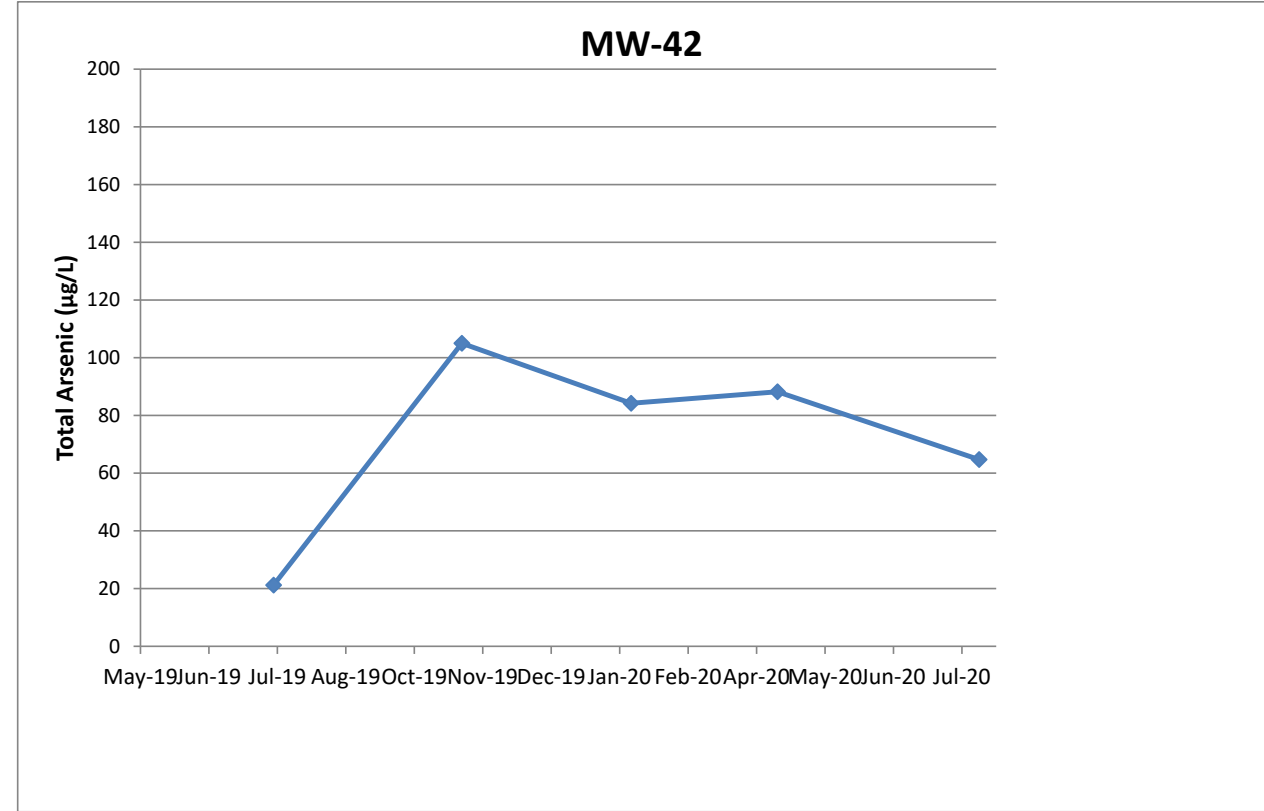
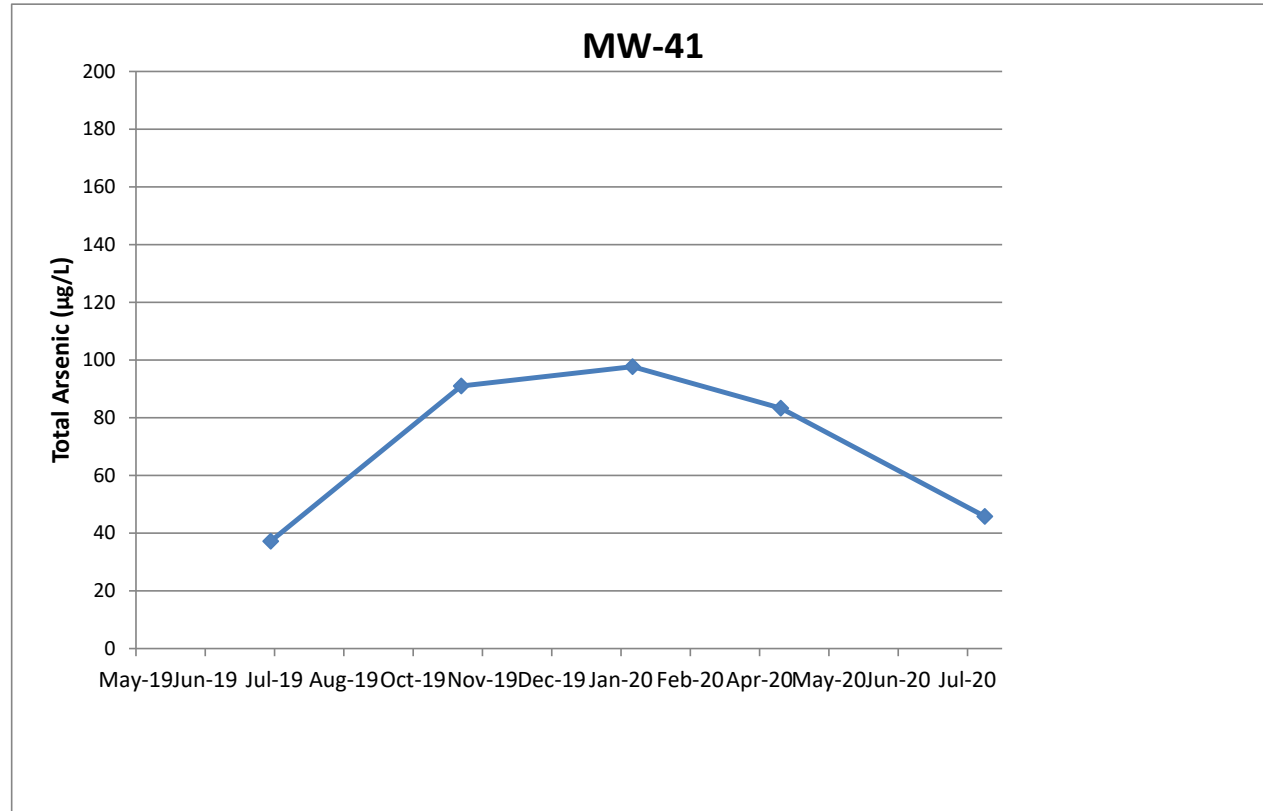
Attachment 1  
Time-Concentration Plots



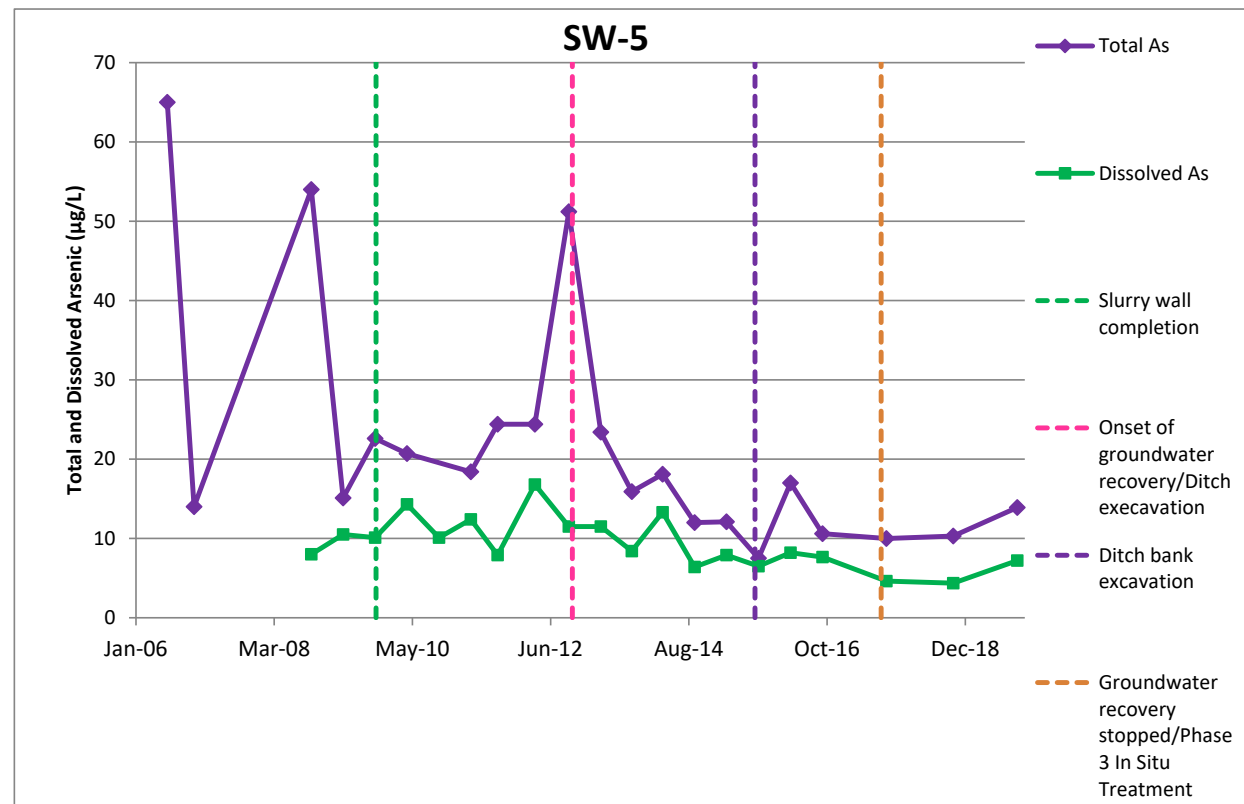
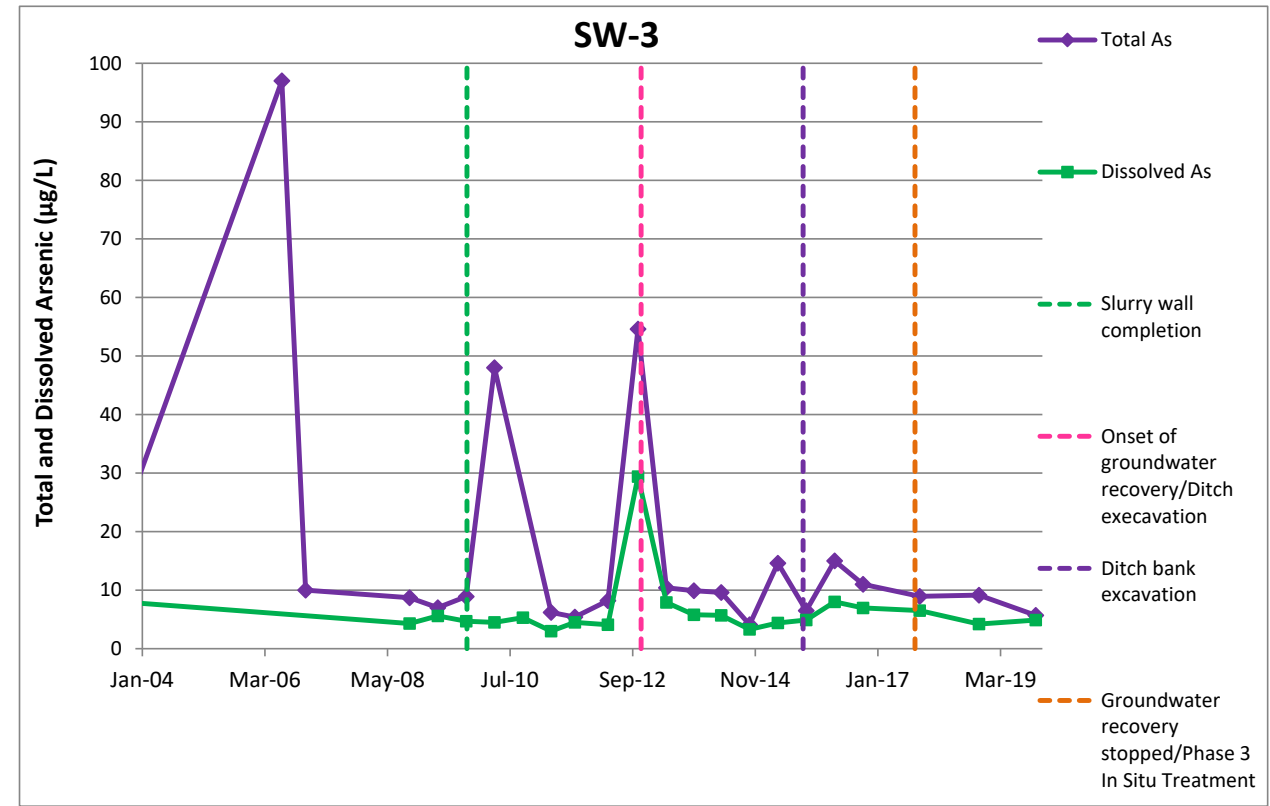
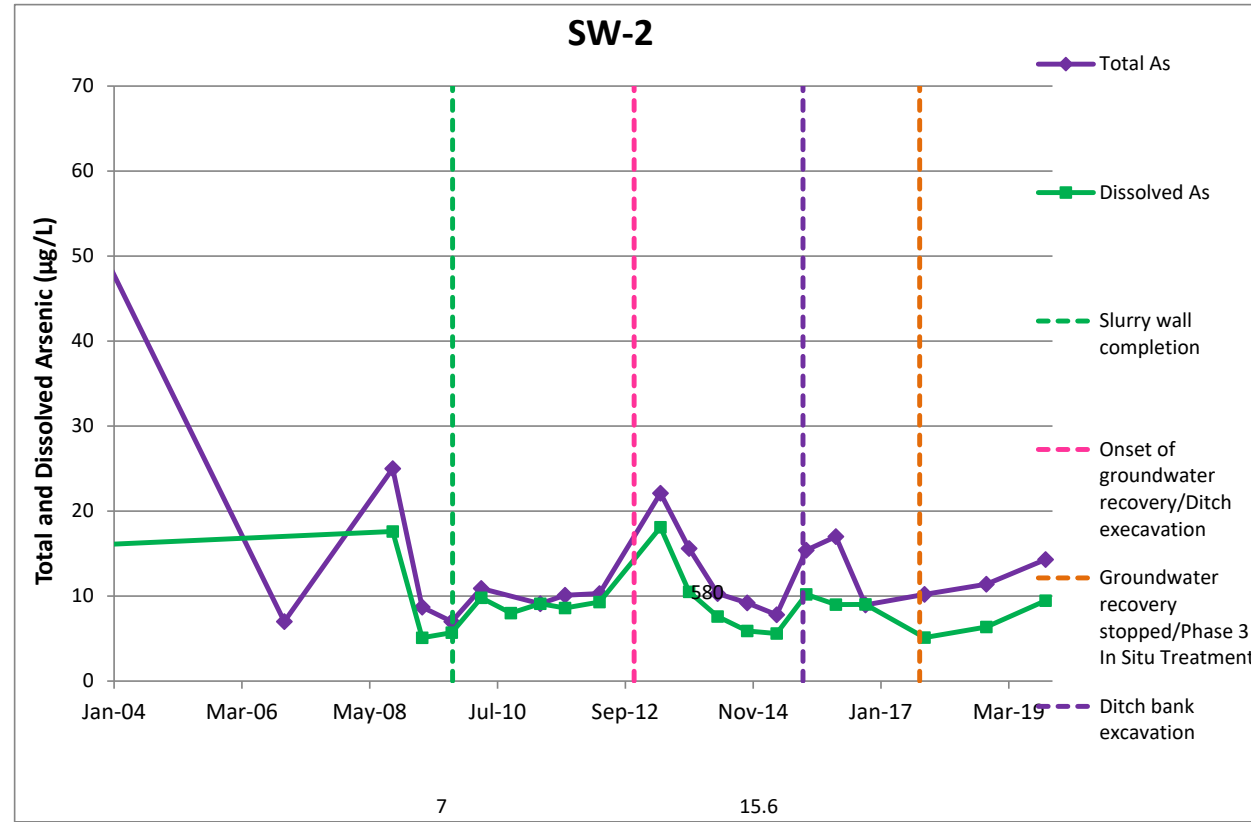
Attachment 1  
Time-Concentration Plots



Attachment 1  
Time-Concentration Plots



Attachment 1  
Time-Concentration Plots



**Attachment 2**  
**Laboratory Analytical Reports**



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

August 3, 2020

Brett Beaulieu, Project Manager  
Floyd-Snider  
Two Union Square, Suite 600  
601 Union St  
Seattle, WA 98101

Dear Mr Beaulieu:

Included are the results from the testing of material submitted on July 29, 2020 from the B+L PO 1507.1, F&BI 007494 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
FDS0803R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 29, 2020 by Friedman & Bruya, Inc. from the Floyd-Snider B+L PO 1507.1, F&BI 007494 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
007494 -01	BLW-GW-MW-33
007494 -02	BLW-GW-MW-34
007494 -03	BLW-GW-MW-41
007494 -04	BLW-GW-MW-42
007494 -05	BLW-GW-PD-174
007494 -06	BLW-GW-PD-214
007494 -07	BLW-GW-MW-40B
007494 -08	BLW-GW-PZ-5A
007494 -09	BLW-GW-PZ-4A
007494 -10	BLW-GW-PZ-3A
007494 -11	BLW-GW-D-8B
007494 -12	BLW-GW-D-8A
007494 -13	BLW-GW-W-1

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-MW-33	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-01
Date Analyzed:	07/30/20	Data File:	007494-01.058
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	128
---------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-MW-34	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-02
Date Analyzed:	07/30/20	Data File:	007494-02.059
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	7.39
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-MW-41	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-03
Date Analyzed:	07/30/20	Data File:	007494-03.060
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	45.8
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-MW-42	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-04
Date Analyzed:	07/30/20	Data File:	007494-04.061
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	64.7
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-PD-174	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-05
Date Analyzed:	07/30/20	Data File:	007494-05.062
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	6.70
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-PD-214	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-06
Date Analyzed:	07/30/20	Data File:	007494-06.063
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	6.72
---------	------



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-MW-40B	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-07
Date Analyzed:	07/30/20	Data File:	007494-07.064
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	8.45
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-PZ-5A	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-08
Date Analyzed:	07/30/20	Data File:	007494-08.065
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	319
---------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-PZ-4A	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-09
Date Analyzed:	07/30/20	Data File:	007494-09.066
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	4.36
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-PZ-3A	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-10
Date Analyzed:	07/30/20	Data File:	007494-10.069
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	165
---------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-D-8B	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-11
Date Analyzed:	07/30/20	Data File:	007494-11.070
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	6.72
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-D-8A	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-12
Date Analyzed:	07/30/20	Data File:	007494-12.071
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	219
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	BLW-GW-W-1	Client:	Floyd-Snider
Date Received:	07/29/20	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	007494-13
Date Analyzed:	07/30/20	Data File:	007494-13.072
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	5.73
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	B+L PO 1507.1, F&BI 007494
Date Extracted:	07/30/20	Lab ID:	I0-439 mb2
Date Analyzed:	07/30/20	Data File:	I0-439 mb2.041
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/03/20

Date Received: 07/29/20

Project: B+L PO 1507.1, F&BI 007494

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	96	95	85-115	1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

007494

SAMPLE CHAIN OF CUSTODY

ME 07/29/20

AIY Page # 1 of 2

Report To Brett Beaulieu  
 Company Floyd Snider  
 Address 6001 Union St, Suite 600  
 City, State, ZIP Seattle, WA 98101  
 Phone 206-292-2078 Email Brett.Beaulieu@floyd-snider.com

SAMPLERS (signature) [Signature]  
 PROJECT NAME BTL PO # 1507.1  
 REMARKS INVOICE TO  
 Project specific RLs? - Yes / (No)

TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other  
(Default) Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TOTAL AS				
BLW-GW-MW-33	01	7/29/20	0956	GW	1											✓	
BLW-GW-MW-34	02		1020		1											✓	
BLW-GW-MW-41	03		1056		1											✓	
BLW-GW-MW-42	04		1151		1											✓	
BLW-GW-PD-174	05		1145		1											✓	
BLW-GW-PD-214	06		1148		1											✓	
BLW-GW-MW-40B	07		12:40		1											✓	
BLW-GW-P2-5A	08		1335		1											✓	
BLW-GW-P2-4A	09		1430		1											✓	
BLW-GW-P2-3A	10		15:35		1											✓	

Friedman & Bruya, Inc.  
 3012 16<sup>th</sup> Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	Tyler Scott	Floyd Snider	7/29/20	17:33
Received by: <u>[Signature]</u>	Seave Lessing	FBI	7/29/20	17:33
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

007494

SAMPLE CHAIN OF CUSTODY ME 07/29/20

Page # 2 of 2 ATC

Report To Brett Beaulieu  
 Company Floyd Snider  
 Address \_\_\_\_\_  
 City, State, ZIP \_\_\_\_\_  
 Phone \_\_\_\_\_ Email \_\_\_\_\_

see page 1

SAMPLERS (signature) [Signature]  
 PROJECT NAME BTL PO # 1507-1  
 REMARKS \_\_\_\_\_ INVOICE TO \_\_\_\_\_  
 Project specific RLs? - Yes / No

TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Total Arsenic				
BLW-GW-D-8B	11	7/29/20	13:39	GW	1											✓	
BLW-GW-D-8A	12	↓	14:16	↓	1											✓	
BLW-GW-W-1	13	↓	1555	↓	1											✓	

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	Tyler Scott	Floyd Snider	7/29/20	17:33
Received by: <u>[Signature]</u>	Isaac Lessey	FBI	7/29/20	17:33
Relinquished by: _____	_____	_____	_____	_____
Received by: _____	_____	Samples received at <u>4</u> °C		