

Table A-1. Summary Statistics for Metals (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Cadmium															
M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C10	ug/l	30	0	0.0	1/9/2006	5/4/2020	0.01	0.02	--	--	--	0.006	0.005	0.002	
M30	ug/l	108	4	3.7	2/3/2010	9/1/2020	0.016	0.03	0.01	0.049	2/3/2010	0.0	0.0	0.0	
C20	ug/l	48	4	8.3	1/10/2006	9/1/2020	0.008	0.02	0.018	0.24	8/14/2007	0.015	0.005	0.038	
M40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
M50	ug/l	98	0	0.0	2/16/2011	9/2/2020	0.016	0.03	--	--	--	0.013	0.015	0.003	
M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
M70	ug/l	48	1	2.1	4/20/2006	9/16/2020	0.005	0.1	0.02	0.02	9/16/2020	0.012	0.005	0.016	
C30	ug/l	59	2	3.4	4/20/2006	6/15/2020	0.005	0.1	0.02	0.025	10/27/2009	0.009	0.005	0.013	
C40	ug/l	65	0	0.0	4/20/2006	9/16/2020	0.005	0.1	--	--	--	0.0	0.0	0.0	
C50	ug/l	63	0	0.0	7/18/2006	9/16/2020	0.005	0.1	--	--	--	0.008	0.005	0.012	
M90	ug/l	52	0	0.0	4/20/2006	9/16/2020	0.005	0.1	--	--	--	0.011	0.005	0.016	
T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
M140	ug/l	109	43	39.4	2/2/2010	9/1/2020	0.016	0.15	0.01	0.056	2010-04-05; 2012-10-09	0.025	0.015	0.015	
M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
VT05	ug/l	35	1	2.9	4/22/2008	9/10/2014	0.2	0.2	0.2	0.2	5/10/2011	0.1	0.1	0.0	
VM05	ug/l	35	1	2.9	4/22/2008	9/10/2014	0.2	0.2	0.2	0.2	6/8/2010	0.1	0.1	0.0	

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												Mean	Median ^c	St Dev	
Copper															
M10	ug/l	135	132	97.8	1/9/2008	9/2/2020	0.8	1	0.57	8	9/10/2012	1.700	1.500	1.097	
M20	ug/l	136	131	96.3	10/17/2005	11/6/2018	0.8	1	0.53	6.3	2/13/2012	1.587	1.300	1.072	
C10	ug/l	104	102	98.1	12/13/2005	9/1/2020	0.5	0.5	0.53	5.5	4/9/2014	1.364	1.005	0.915	
M30	ug/l	159	154	96.9	10/17/2005	9/1/2020	0.8	1	0.48	8.6	5/14/2007	1.7	1.4	1.2	
C20	ug/l	102	101	99.0	12/12/2005	9/1/2020	0.5	0.5	0.51	4.5	2/14/2007	1.529	1.185	0.898	
M40	ug/l	139	135	97.1	10/17/2005	11/6/2018	0.8	1	0.57	7.9	2/14/2008	1.627	1.300	1.106	
M50	ug/l	156	152	97.4	10/18/2005	9/2/2020	0.8	1	0.56	28.3	11/12/2013	1.694	1.200	2.348	
M60	ug/l	155	153	98.7	10/18/2005	9/2/2020	0.8	1	0.66	14.1	4/8/2014	1.799	1.300	1.593	
T10	ug/l	160	150	93.8	10/18/2005	9/2/2020	0.8	1	0.27	20.3	6/13/2012	1.743	1.100	2.328	
M70	ug/l	155	153	98.7	2/1/2006	9/16/2020	1	1	0.58	5.3	5/10/2011	1.492	1.260	0.846	
C30	ug/l	152	150	98.7	10/13/2005	6/15/2020	0.04	0.5	0.59	12.2	1/31/2008	2.596	1.510	2.243	
C40	ug/l	155	154	99.4	10/20/2005	9/16/2020	0.5	0.5	0.56	12.4	1/31/2008	2.396	1.570	1.962	
C50	ug/l	153	152	99.3	10/20/2005	9/16/2020	0.5	0.5	0.61	11.4	1/31/2008	2.325	1.470	1.924	
M90	ug/l	213	211	99.1	2/1/2006	9/16/2020	0.5	0.8	0.65	9.4	4/20/2006	1.858	1.400	1.441	
T20	ug/l	126	107	84.9	1/7/2008	7/7/2020	0.4	1	0.34	6.8	5/15/2012	1.281	1.000	1.122	
M130	ug/l	160	149	93.1	10/19/2005	9/1/2020	0.8	3	0.52	10.6	5/12/2014	1.930	1.400	1.692	
M140	ug/l	160	157	98.1	10/21/2005	9/1/2020	1.2	5	0.66	16.2	7/8/2013	2.823	2.200	2.155	
M150	ug/l	160	153	95.6	10/21/2005	9/1/2020	1	5	0.62	32.7	2/10/2014	2.712	2.000	2.949	
VT05	ug/l	65	25	38.5	4/22/2008	11/6/2019	1.2	10	0.84	12.1	8/10/2010	3.169	2.500	2.208	
VM05	ug/l	73	31	42.5	4/22/2008	9/2/2020	0.8	10	0.66	12	6/8/2010	2.807	2.300	2.183	

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Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Lead														
M10	ug/l	135	72	53.3	1/9/2008	9/2/2020	0.015	0.08	0.017	0.124	10/14/2008	0.035	0.030	0.025
M20	ug/l	142	105	73.9	10/17/2005	11/6/2018	0.015	0.12	0.018	0.49	5/14/2007	0.058	0.041	0.066
C10	ug/l	84	60	71.4	12/13/2005	9/1/2020	0.004	0.06	0.006	1.44	1/8/2007	0.076	0.024	0.214
M30	ug/l	160	121	75.6	10/17/2005	9/1/2020	0.02	0.12	0.02	0.41	5/14/2007	0.058	0.040	0.061
C20	ug/l	89	75	84.3	12/12/2005	9/1/2020	0.015	0.06	0.006	2.68	8/14/2007	0.094	0.040	0.298
M40	ug/l	142	105	73.9	10/17/2005	11/6/2018	0.02	0.12	0.015	0.68	10/17/2007	0.058	0.040	0.071
M50	ug/l	160	118	73.8	10/18/2005	9/2/2020	0.015	0.12	0.02	0.529	10/21/2013	0.052	0.040	0.054
M60	ug/l	159	120	75.5	10/18/2005	9/2/2020	0.015	0.12	0.019	1.27	7/10/2007	0.071	0.041	0.131
T10	ug/l	160	110	68.8	10/18/2005	9/2/2020	0.02	0.12	0.017	0.704	3/6/2017	0.063	0.040	0.087
M70	ug/l	144	113	78.5	4/20/2006	9/16/2020	0.02	0.12	0.013	0.45	8/14/2007	0.060	0.039	0.067
C30	ug/l	110	87	79.1	10/20/2005	6/15/2020	0.004	0.1	0.006	0.554	10/3/2013	0.052	0.031	0.071
C40	ug/l	121	98	81.0	10/20/2005	9/16/2020	0.015	0.1	0.007	0.536	10/3/2013	0.056	0.040	0.067
C50	ug/l	119	108	90.8	10/20/2005	9/16/2020	0.03	0.1	0.01	0.5	10/3/2013	0.062	0.047	0.068
M90	ug/l	171	140	81.9	2/8/2006	9/16/2020	0.015	0.12	0.012	3.12	3/8/2018	0.072	0.041	0.241
T20	ug/l	127	50	39.4	1/7/2008	7/7/2020	0.015	0.08	0.016	0.265	5/11/2016	0.045	0.020	0.056
M130	ug/l	160	99	61.9	10/19/2005	9/1/2020	0.015	0.15	0.015	3.78	3/10/2014	0.084	0.035	0.304
M140	ug/l	161	159	98.8	10/21/2005	9/1/2020	0.04	0.3	0.029	1.65	10/16/2008	0.192	0.120	0.203
M150	ug/l	160	153	95.6	10/21/2005	9/1/2020	0.04	0.1	0.024	1.94	10/16/2008	0.175	0.102	0.208
VT05	ug/l	65	26	40.0	4/22/2008	11/6/2019	0.04	1	0.028	7	8/10/2010	0.970	0.500	1.573
VM05	ug/l	73	37	50.7	4/22/2008	9/2/2020	0.04	1	0.033	4.6	6/8/2010	0.634	0.122	0.970

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												Mean	Median ^c	St Dev	
Arsenic															
M10	ug/l	135	99	73.3	1/9/2008	9/2/2020	0.04	0.1	0.04	0.28	5/10/2011	0.091	0.070	0.049	
M20	ug/l	142	121	85.2	10/17/2005	11/6/2018	0.05	0.12	0.03	0.93	5/11/2015	0.095	0.080	0.080	
C10	ug/l	85	85	100.0	12/13/2005	9/1/2020	--	--	0.1	0.31	9/8/2015	0.187	0.190	0.038	
M30	ug/l	160	128	80.0	10/17/2005	9/1/2020	0.05	0.12	0.04	1.1	5/11/2015	0.096	0.080	0.088	
C20	ug/l	81	81	100.0	12/12/2005	9/1/2020	--	--	0.09	0.26	8/14/2007	0.176	0.180	0.035	
M40	ug/l	142	142	100.0	10/17/2005	11/6/2018	--	--	0.07	0.88	5/12/2015	0.176	0.170	0.070	
M50	ug/l	160	160	100.0	10/18/2005	9/2/2020	--	--	0.08	1	5/12/2015	0.177	0.170	0.076	
M60	ug/l	159	158	99.4	10/18/2005	9/2/2020	0.1	0.1	0.08	0.28	5/15/2015	0.170	0.170	0.037	
T10	ug/l	160	141	88.1	10/18/2005	9/2/2020	0.04	0.1	0.04	0.28	5/15/2015	0.106	0.100	0.042	
M70	ug/l	137	129	94.2	4/20/2006	9/16/2020	0.1	0.5	0.08	0.35	5/26/2015	0.169	0.160	0.044	
C30	ug/l	112	107	95.5	10/20/2005	6/15/2020	0.5	0.5	0.08	0.5	10/3/2013	0.181	0.180	0.051	
C40	ug/l	122	115	94.3	10/20/2005	9/16/2020	0.5	0.5	0.08	0.51	10/3/2013	0.181	0.180	0.051	
C50	ug/l	120	115	95.8	10/20/2005	9/16/2020	0.5	0.5	0.05	0.52	10/3/2013	0.184	0.180	0.051	
M90	ug/l	169	159	94.1	2/8/2006	9/16/2020	0.1	0.5	0.1	0.37	5/26/2015	0.174	0.170	0.048	
T20	ug/l	127	127	100.0	1/7/2008	7/7/2020	--	--	0.18	0.79	7/8/2013	0.317	0.300	0.095	
M130	ug/l	160	158	98.8	10/19/2005	9/1/2020	0.3	0.5	0.15	1.3	9/12/2016	0.402	0.345	0.190	
M140	ug/l	161	159	98.8	10/21/2005	9/1/2020	0.25	0.5	0.2	1	9/12/2016	0.416	0.380	0.149	
M150	ug/l	160	159	99.4	10/21/2005	9/1/2020	0.25	0.25	0.21	0.99	9/12/2016	0.477	0.440	0.160	
VT05	ug/l	30	30	100.0	2/6/2017	11/6/2019	--	--	0.79	1.9	7/12/2017	1.249	1.200	0.277	
VM05	ug/l	38	37	97.4	2/6/2017	9/2/2020	0.5	0.5	0.54	1.8	2017-07-12; 2020-08-04	0.969	0.925	0.330	

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												Mean	Median ^c	St Dev
Selenium														
M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M20	ug/l	13	11	84.6	10/17/2005	12/4/2006	0.08	0.08	0.04	0.1	5/22/2006	0.057	0.050	0.018
C10	ug/l	49	48	98.0	1/9/2006	9/1/2020	0.02	0.02	0.04	0.28	3/12/2007	0.078	0.070	0.051
M30	ug/l	2	2	100.0	6/5/2006	11/13/2006	--	--	0.05	0.05	2006-06-05; 2006-11-13	0.050	0.050	0.000
C20	ug/l	46	44	95.7	1/10/2006	9/1/2020	0.02	0.02	0.03	0.14	5/11/2015	0.064	0.060	0.022
M40	ug/l	2	2	100.0	6/6/2006	11/13/2006	--	--	0.06	0.06	2006-06-06; 2006-11-13	0.060	0.060	0.000
M50	ug/l	2	2	100.0	6/6/2006	11/15/2006	--	--	0.05	0.06	6/6/2006	0.055	0.055	0.007
M60	ug/l	2	2	100.0	6/6/2006	11/15/2006	--	--	0.05	0.05	2006-06-06; 2006-11-15	0.050	0.050	0.000
T10	ug/l	2	2	100.0	6/6/2006	11/15/2006	--	--	0.04	0.04	2006-06-06; 2006-11-15	0.040	0.040	0.000
M70	ug/l	48	39	81.3	4/20/2006	9/16/2020	0.02	0.1	0.03	0.27	5/26/2015	0.070	0.060	0.038
C30	ug/l	62	56	90.3	10/20/2005	6/15/2020	0.02	0.1	0.04	0.28	10/3/2013	0.070	0.060	0.035
C40	ug/l	68	60	88.2	10/20/2005	9/16/2020	0.02	0.1	0.03	0.28	10/3/2013	0.071	0.065	0.038
C50	ug/l	65	58	89.2	10/20/2005	7/21/2020	0.02	0.1	0.03	0.27	10/3/2013	0.071	0.060	0.040
M90	ug/l	167	149	89.2	10/19/2005	9/1/2020	0.02	0.1	0.03	0.25	5/26/2015	0.072	0.070	0.030
T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M130	ug/l	80	80	100.0	6/7/2006	9/1/2020	--	--	0.07	14.8	4/12/2016	3.035	1.900	2.802
M140	ug/l	79	79	100.0	6/8/2006	9/1/2020	--	--	0.45	7.4	4/12/2016	2.422	2.100	1.529
M150	ug/l	155	155	100.0	10/21/2005	9/1/2020	--	--	0.4	7.1	5/6/2009	2.521	2.500	1.283
VT05	ug/l	35	35	100.0	4/22/2008	9/10/2014	--	--	2.6	15.7	4/12/2011	9.320	9.400	2.857
VM05	ug/l	35	35	100.0	4/22/2008	9/10/2014	--	--	1.9	9	10/12/2010	5.7	6.3	1.835

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												Mean	Median ^c	St Dev
Zinc														
M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C10	ug/l	77	54	70.1	12/13/2005	9/1/2020	0.2	1.4	0.2	13.2	1/8/2007	1.658	0.700	2.447
M30	ug/l	98	51	52.0	2/15/2011	9/1/2020	1.4	2	1.4	11.1	3/7/2016	2.449	1.550	2.018
C20	ug/l	74	54	73.0	1/10/2006	9/1/2020	0.7	1.4	0.4	8.7	6/12/2007	1.362	0.900	1.406
M40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M50	ug/l	98	52	53.1	2/16/2011	9/2/2020	1.4	2	1.7	7.5	2/4/2020	2.070	1.700	1.390
M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M70	ug/l	36	36	100.0	6/9/2009	7/21/2020	--	--	0.8	5.2	9/13/2018	2.289	2.150	1.145
C30	ug/l	49	45	91.8	6/9/2009	6/15/2020	0.2	0.2	0.4	2.1	5/26/2015	0.798	0.700	0.448
C40	ug/l	52	51	98.1	6/9/2009	7/21/2020	0.2	0.2	0.3	2.8	9/13/2017	1.075	0.900	0.637
C50	ug/l	52	51	98.1	6/9/2009	7/21/2020	0.2	0.2	0.2	4.3	9/13/2017	0.985	0.850	0.644
M90	ug/l	39	39	100.0	6/9/2009	7/21/2020	--	--	0.4	5	1/10/2018	1.972	1.600	1.125
T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M140	ug/l	99	96	97.0	2/15/2011	9/1/2020	2	2	1.7	40	3/7/2018	10.835	8.100	8.086
M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VT05	ug/l	29	29	100.0	4/22/2008	11/8/2011	--	--	5.5	41.3	8/10/2010	13.762	9.200	9.797
VM05	ug/l	30	27	90.0	4/22/2008	11/8/2011	5	5	5	24.3	7/12/2011	10.713	8.550	5.996

Notes:

^a - Earliest date of available data after 9/30/2005

^b - Latest date of available data prior to 10/1/2020

^c - Median is the exact result value ranking as the 0.50 percentile in an ascending list of all results. When the ascending list of all results doesn't produce an exact match to the corresponding percentile rank, average of two adjacent results ranking closest to 0.50 percentile is the median.

-- Data not available

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Ammonia Nitrogen as N															
M10	mg/l	173	33	19.1	10/12/2005	9/2/2020	0.01	0.02	0.005	0.02	2008-02-19; 2010-04-07; 2013-05-15; 2013-08-12; 2016-06-28; 2017-04-24; 2020-07-06	0.007	0.005	0.003	
M20	mg/l	179	29	16.2	10/17/2005	11/6/2018	0.01	0.02	0.005	0.02	2007-01-08; 2015-10-05	0.007	0.005	0.003	
C10	mg/l	130	79	60.8	12/13/2005	9/1/2020	0.001	0.01	0.002	0.056	9/10/2013	0.003	0.002	0.005	
M30	mg/l	203	109	53.7	10/17/2005	9/1/2020	0.01	0.02	0.005	1.29	11/13/2006	0.053	0.010	0.144	
C20	mg/l	138	118	85.5	12/12/2005	9/1/2020	0.001	0.01	0.002	0.071	2006-09-11; 2016-12-05	0.012	0.008	0.013	
M40	mg/l	146	87	59.6	10/17/2005	11/6/2018	0.01	0.02	0.005	0.116	6/6/2006	0.018	0.010	0.018	
M50	mg/l	199	160	80.4	10/18/2005	8/4/2020	0.01	0.02	0.01	0.47	3/3/2020	0.067	0.030	0.090	
M60	mg/l	159	79	49.7	10/18/2005	9/2/2020	0.01	0.02	0.006	0.24	3/3/2020	0.021	0.010	0.037	
T10	mg/l	160	31	19.4	10/18/2005	9/2/2020	0.01	0.06	0.005	0.02	2009-03-10; 2020-07-07	0.007	0.005	0.003	
M70	mg/l	247	150	60.7	4/20/2006	9/16/2020	0.001	0.02	0.002	0.23	2/13/2019	0.016	0.010	0.027	
C30	mg/l	158	113	71.5	10/20/2005	6/15/2020	0.001	0.01	0.002	0.07	10/6/2009	0.008	0.005	0.009	
C40	mg/l	161	114	70.8	10/20/2005	9/16/2020	0.001	0.01	0.002	0.065	8/22/2006	0.008	0.005	0.009	
C50	mg/l	154	105	68.2	10/20/2005	9/16/2020	0.001	0.01	0.002	0.057	8/22/2006	0.008	0.005	0.009	
M90	mg/l	252	186	73.8	2/8/2006	9/16/2020	0.001	0.02	0.002	0.381	11/28/2011	0.018	0.010	0.034	
T20	mg/l	127	83	65.4	1/7/2008	7/7/2020	0.01	0.02	0.01	0.04	2012-05-15; 2013-07-08; 2018-07-11	0.013	0.010	0.008	
M130	mg/l	174	120	69.0	10/19/2005	9/1/2020	0.01	0.02	0.009	0.11	3/18/2008	0.016	0.010	0.016	
M140	mg/l	213	209	98.1	10/21/2005	9/1/2020	0.01	0.01	0.01	5.97	4/9/2019	0.078	0.030	0.416	
M150	mg/l	160	154	96.3	10/21/2005	9/1/2020	0.01	0.05	0.01	5.4	4/9/2019	0.142	0.030	0.491	
VT05	mg/l	86	86	100.0	4/22/2008	11/6/2019	--	--	0.013	3.37	2/6/2017	0.790	0.577	0.667	
VM05	mg/l	85	68	80.0	4/22/2008	9/2/2020	0.01	0.05	0.004	1.96	4/9/2019	0.186	0.090	0.284	

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Dissolved Phosphorus														
M10	mg/l	136	83	61.0	1/9/2008	9/2/2020	0.003	0.006	0.003	0.015	5/15/2013	0.004	0.003	0.003
M20	mg/l	179	141	78.8	10/17/2005	11/6/2018	0.003	0.006	0.002	0.016	5/11/2015	0.005	0.004	0.002
C10	mg/l	15	12	80.0	12/13/2005	2/13/2007	0.002	0.003	0.003	0.007	3/6/2006	0.004	0.004	0.002
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	0.003	0.239	11/6/2018	0.036	0.013	0.048
C20	mg/l	22	18	81.8	12/12/2005	1/8/2008	0.002	0.003	0.003	0.008	2006-09-11; 2007-02-14	0.005	0.005	0.002
M40	mg/l	146	134	91.8	10/17/2005	11/6/2018	0.003	0.006	0.003	0.04	11/12/2013	0.007	0.005	0.005
M50	mg/l	200	200	100.0	10/18/2005	9/2/2020	--	--	0.004	0.277	10/6/2015	0.063	0.044	0.054
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	0.006	0.194	2/13/2008	0.056	0.045	0.041
T10	mg/l	160	149	93.1	10/18/2005	9/2/2020	0.003	0.006	0.003	0.029	5/15/2015	0.007	0.006	0.004
M70	mg/l	179	179	100.0	10/17/2006	9/2/2020	--	--	0.008	0.146	9/12/2018	0.038	0.029	0.026
C30	mg/l	39	32	82.1	10/20/2005	7/14/2010	0.002	0.003	0.003	0.008	6/8/2010	0.004	0.004	0.002
C40	mg/l	38	35	92.1	10/20/2005	9/14/2010	0.002	0.003	0.003	0.032	4/13/2009	0.008	0.006	0.006
C50	mg/l	32	27	84.4	10/20/2005	9/14/2010	0.002	0.003	0.003	0.018	8/10/2010	0.006	0.005	0.004
M90	mg/l	141	141	100.0	2/8/2006	9/1/2020	--	--	0.006	0.135	3/8/2018	0.033	0.023	0.026
T20	mg/l	127	126	99.2	1/7/2008	7/7/2020	0.006	0.006	0.003	0.081	7/8/2013	0.016	0.013	0.011
M130	mg/l	174	171	98.3	10/19/2005	9/1/2020	0.003	0.003	0.003	0.112	3/10/2014	0.012	0.010	0.011
M140	mg/l	214	214	100.0	10/21/2005	9/1/2020	--	--	0.026	2.97	3/7/2018	0.686	0.459	0.596
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.035	2.35	3/7/2018	0.726	0.410	0.686
VT05	mg/l	40	40	100.0	10/25/2013	11/6/2019	--	--	0.091	0.37	2017-03-08; 2017-04-12	0.218	0.217	0.073
VM05	mg/l	39	39	100.0	10/25/2013	9/2/2020	--	--	0.091	0.737	3/7/2018	0.319	0.269	0.175

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Nitrate + Nitrite as N															
M10	mg/l	294	294	100.0	10/12/2005	9/2/2020	--	--	0.048	0.93	4/10/2014	0.169	0.140	0.120	
M20	mg/l	179	178	99.4	10/17/2005	11/6/2018	0.016	0.016	0.028	0.29	2014-02-11; 2014-03-11	0.131	0.120	0.057	
C10	mg/l	142	133	93.7	12/13/2005	9/1/2020	0.001	0.008	0.002	0.108	12/13/2005	0.029	0.030	0.024	
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	0.035	0.65	1/9/2008	0.186	0.143	0.116	
C20	mg/l	142	142	100.0	12/12/2005	9/1/2020	--	--	0.006	0.192	5/11/2015	0.055	0.046	0.039	
M40	mg/l	146	144	98.6	10/17/2005	11/6/2018	0.008	0.01	0.009	0.28	11/12/2013	0.064	0.049	0.049	
M50	mg/l	200	200	100.0	10/18/2005	9/2/2020	--	--	0.026	0.99	3/8/2016	0.256	0.218	0.153	
M60	mg/l	159	157	98.7	10/18/2005	9/2/2020	0.016	0.016	0.01	0.89	2/14/2019	0.305	0.260	0.207	
T10	mg/l	160	153	95.6	10/18/2005	9/2/2020	0.008	0.016	0.008	0.433	3/10/2009	0.095	0.085	0.065	
M70	mg/l	224	218	97.3	4/12/2006	9/16/2020	0.01	0.016	0.008	0.85	2/13/2019	0.226	0.181	0.163	
C30	mg/l	171	164	95.9	10/20/2005	6/15/2020	0.001	0.008	0.002	0.214	6/14/2017	0.047	0.038	0.036	
C40	mg/l	177	166	93.8	10/20/2005	9/16/2020	0.001	0.08	0.002	0.214	8/10/2017	0.059	0.048	0.042	
C50	mg/l	174	169	97.1	10/20/2005	9/16/2020	0.001	0.008	0.002	0.194	2013-11-27; 2017-08-10	0.055	0.048	0.041	
M90	mg/l	239	236	98.7	2/8/2006	9/16/2020	0.016	0.016	0.008	0.744	1/16/2007	0.189	0.130	0.169	
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	0.012	0.85	7/10/2012	0.184	0.140	0.151	
M130	mg/l	174	174	100.0	10/19/2005	9/1/2020	--	--	0.036	0.811	12/13/2007	0.297	0.262	0.191	
M140	mg/l	214	214	100.0	10/21/2005	9/1/2020	--	--	0.085	9.97	12/13/2007	3.288	2.400	2.386	
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.22	10.4	2012-11-13; 2013-02-11	3.574	2.185	3.075	
VT05	mg/l	78	78	100.0	4/22/2008	11/6/2019	--	--	0.72	12	4/12/2017	4.324	4.249	2.036	
VM05	mg/l	77	77	100.0	4/22/2008	9/2/2020	--	--	0.209	5.76	11/14/2012	2.795	2.760	1.280	

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Nitrogen, Kjeldahl															
M10	mg/l	135	128	94.8	1/9/2008	9/2/2020	0.07	0.14	0.07	0.63	5/15/2013	0.161	0.120	0.095	
M20	mg/l	179	178	99.4	10/17/2005	11/6/2018	0.14	0.14	0.07	0.47	5/19/2010	0.163	0.140	0.080	
C10	mg/l	144	144	100.0	12/13/2005	9/1/2020	--	--	0.07	0.49	8/14/2007	0.211	0.204	0.051	
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	0.1	1.6	2006-11-13; 2009-03-11	0.247	0.210	0.176	
C20	mg/l	142	142	100.0	12/12/2005	9/1/2020	--	--	0.13	0.461	5/11/2015	0.249	0.237	0.064	
M40	mg/l	146	146	100.0	10/17/2005	11/6/2018	--	--	0.11	0.86	10/11/2011	0.236	0.220	0.082	
M50	mg/l	200	200	100.0	10/18/2005	9/2/2020	--	--	0.17	1.3	9/11/2013	0.332	0.300	0.140	
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	0.15	0.64	6/7/2010	0.286	0.270	0.082	
T10	mg/l	160	158	98.8	10/18/2005	9/2/2020	0.07	0.14	0.07	3	3/6/2017	0.207	0.155	0.255	
M70	mg/l	191	191	100.0	4/20/2006	9/16/2020	--	--	0.14	1.006	5/6/2014	0.308	0.270	0.144	
C30	mg/l	172	172	100.0	10/20/2005	6/15/2020	--	--	0.15	0.869	10/3/2013	0.248	0.237	0.077	
C40	mg/l	180	180	100.0	10/20/2005	9/16/2020	--	--	0.13	0.702	10/3/2013	0.258	0.234	0.085	
C50	mg/l	180	180	100.0	10/20/2005	9/16/2020	--	--	0.15	0.672	10/3/2013	0.251	0.232	0.070	
M90	mg/l	234	234	100.0	2/8/2006	9/16/2020	--	--	0.14	1.964	4/17/2014	0.308	0.270	0.179	
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	0.11	0.79	7/8/2013	0.270	0.240	0.120	
M130	mg/l	174	172	98.9	10/19/2005	9/1/2020	0.07	0.28	0.15	1	6/1/2020	0.322	0.300	0.126	
M140	mg/l	211	211	100.0	10/21/2005	9/1/2020	--	--	0.31	7.3	4/9/2019	0.763	0.620	0.552	
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.28	6.6	4/9/2019	0.790	0.600	0.632	
VT05	mg/l	51	51	100.0	5/9/2012	11/6/2019	--	--	0.526	6.284	7/10/2013	2.062	1.800	1.097	
VM05	mg/l	50	50	100.0	5/9/2012	9/2/2020	--	--	0.338	3	4/9/2019	1.154	1.000	0.540	

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Orthophosphate as P															
M10	mg/l	173	38	22.0	10/12/2005	9/2/2020	0.004	0.008	0.003	0.007	2010-02-01; 2011-04-12; 2011-05-10; 2020-07-06	0.003	0.002	0.001	
M20	mg/l	179	79	44.1	10/17/2005	11/6/2018	0.004	0.008	0.003	0.009	5/11/2015	0.003	0.003	0.002	
C10	mg/l	140	47	33.6	12/13/2005	9/1/2020	0.001	0.003	0.002	0.01	6/5/2017	0.001	0.001	0.002	
M30	mg/l	203	158	77.8	10/17/2005	9/1/2020	0.004	0.006	0.003	0.195	11/14/2012	0.031	0.009	0.046	
C20	mg/l	142	92	64.8	12/12/2005	9/1/2020	0.001	0.003	0.002	0.017	11/7/2018	0.003	0.002	0.003	
M40	mg/l	146	75	51.4	10/17/2005	11/6/2018	0.004	0.008	0.003	0.022	11/12/2013	0.004	0.003	0.003	
M50	mg/l	199	197	99.0	10/18/2005	8/4/2020	0.004	0.004	0.004	0.256	10/6/2015	0.056	0.037	0.051	
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	0.003	0.181	2/13/2008	0.049	0.036	0.040	
T10	mg/l	160	119	74.4	10/18/2005	9/2/2020	0.004	0.006	0.003	0.019	3/10/2009	0.005	0.005	0.003	
M70	mg/l	191	190	99.5	4/20/2006	9/16/2020	0.001	0.001	0.004	0.126	2/13/2019	0.035	0.022	0.029	
C30	mg/l	170	82	48.2	10/20/2005	6/15/2020	0.001	0.004	0.002	0.024	10/3/2013	0.002	0.002	0.003	
C40	mg/l	178	118	66.3	10/20/2005	9/16/2020	0.001	0.004	0.002	0.028	4/13/2009	0.005	0.003	0.005	
C50	mg/l	177	111	62.7	10/20/2005	9/16/2020	0.001	0.004	0.002	0.026	4/15/2009	0.005	0.003	0.005	
M90	mg/l	233	229	98.3	2/8/2006	9/16/2020	0.004	0.006	0.002	0.117	1/13/2009	0.025	0.017	0.024	
T20	mg/l	127	125	98.4	1/7/2008	7/7/2020	0.004	0.004	0.006	0.082	7/8/2013	0.015	0.013	0.009	
M130	mg/l	174	129	74.1	10/19/2005	9/1/2020	0.004	0.008	0.003	0.034	2/10/2015	0.008	0.007	0.006	
M140	mg/l	213	213	100.0	10/21/2005	9/1/2020	--	--	0.012	2.66	3/7/2018	0.658	0.423	0.593	
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.015	2.36	4/13/2009	0.706	0.361	0.690	
VT05	mg/l	75	74	98.7	4/22/2008	11/6/2019	0.01	0.01	0.01	0.478	6/14/2011	0.171	0.174	0.093	
VM05	mg/l	74	74	100.0	4/22/2008	9/2/2020	--	--	0.07	0.669	3/7/2018	0.253	0.205	0.141	

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Total Nitrogen															
M10	mg/l	323	323	100.0	10/12/2005	9/2/2020	--	--	0.07	1.24	4/10/2014	0.303	0.280	0.151	
M20	mg/l	179	179	100.0	10/17/2005	11/6/2018	--	--	0.118	0.57	5/11/2015	0.294	0.273	0.088	
C10	mg/l	143	143	100.0	12/13/2005	9/1/2020	--	--	0.12	0.52	8/14/2007	0.239	0.232	0.045	
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	0.168	1.834	11/13/2006	0.433	0.376	0.221	
C20	mg/l	142	142	100.0	12/12/2005	9/1/2020	--	--	0.189	0.642	5/11/2015	0.302	0.283	0.083	
M40	mg/l	146	146	100.0	10/17/2005	11/6/2018	--	--	0.141	0.874	10/11/2011	0.299	0.277	0.099	
M50	mg/l	200	200	100.0	10/18/2005	9/2/2020	--	--	0.236	1.62	9/11/2013	0.588	0.530	0.241	
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	0.23	1.27	3/3/2020	0.590	0.540	0.235	
T10	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	0.11	3.08	3/6/2017	0.302	0.254	0.262	
M70	mg/l	191	191	100.0	4/20/2006	9/16/2020	--	--	0.208	1.559	1/10/2007	0.532	0.474	0.228	
C30	mg/l	170	170	100.0	10/20/2005	6/15/2020	--	--	0.185	0.983	10/3/2013	0.295	0.273	0.093	
C40	mg/l	177	177	100.0	10/20/2005	9/16/2020	--	--	0.17	0.821	10/3/2013	0.315	0.287	0.104	
C50	mg/l	174	174	100.0	10/20/2005	9/16/2020	--	--	0.168	0.808	10/3/2013	0.306	0.288	0.092	
M90	mg/l	233	233	100.0	2/8/2006	9/16/2020	--	--	0.18	2.264	4/17/2014	0.495	0.408	0.260	
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	0.184	1.38	7/10/2012	0.455	0.419	0.195	
M130	mg/l	174	174	100.0	10/19/2005	9/1/2020	--	--	0.29	1.56	1/14/2014	0.619	0.596	0.204	
M140	mg/l	213	213	100.0	10/21/2005	9/1/2020	--	--	0.61	11.37	12/13/2007	4.069	3.190	2.657	
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.63	12.4	2/11/2013	4.364	2.850	3.386	
VT05	mg/l	86	86	100.0	4/22/2008	11/6/2019	--	--	1.03	15.6	4/12/2017	6.013	5.665	2.403	
VM05	mg/l	85	85	100.0	4/22/2008	9/2/2020	--	--	0.72	7	3/5/2019	3.750	3.760	1.427	

Table A-2. Summary Statistics for Nutrients (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Total Phosphorus														
M10	mg/l	227	208	91.6	10/12/2005	9/2/2020	0.004	0.008	0.004	0.069	9/10/2013	0.011	0.008	0.009
M20	mg/l	179	178	99.4	10/17/2005	11/6/2018	0.004	0.004	0.005	0.232	5/29/2014	0.016	0.010	0.021
C10	mg/l	144	144	100.0	12/13/2005	9/1/2020	--	--	0.007	0.03	6/9/2015	0.013	0.012	0.003
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	0.008	0.259	11/6/2018	0.052	0.030	0.053
C20	mg/l	142	142	100.0	12/12/2005	9/1/2020	--	--	0.011	0.062	6/8/2010	0.020	0.018	0.008
M40	mg/l	146	145	99.3	10/17/2005	11/6/2018	0.004	0.004	0.007	0.055	11/8/2016	0.019	0.017	0.009
M50	mg/l	200	200	100.0	10/18/2005	9/2/2020	--	--	0.012	0.347	9/11/2013	0.083	0.063	0.059
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	0.02	0.627	11/13/2013	0.088	0.071	0.068
T10	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	0.006	2.24	3/6/2017	0.040	0.015	0.180
M70	mg/l	191	191	100.0	4/20/2006	9/16/2020	--	--	0.021	0.446	5/29/2014	0.078	0.061	0.061
C30	mg/l	172	172	100.0	10/20/2005	6/15/2020	--	--	0.011	0.086	10/3/2013	0.019	0.017	0.007
C40	mg/l	178	178	100.0	10/20/2005	9/16/2020	--	--	0.01	0.093	10/3/2013	0.023	0.020	0.011
C50	mg/l	179	179	100.0	10/20/2005	9/16/2020	--	--	0.007	0.08	10/3/2013	0.022	0.019	0.010
M90	mg/l	233	233	100.0	2/8/2006	9/16/2020	--	--	0.015	0.935	4/17/2014	0.070	0.046	0.096
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	0.008	0.235	7/8/2013	0.031	0.025	0.027
M130	mg/l	174	174	100.0	10/19/2005	9/1/2020	--	--	0.007	0.603	5/14/2015	0.042	0.029	0.062
M140	mg/l	213	213	100.0	10/21/2005	9/1/2020	--	--	0.049	3.14	3/7/2018	0.747	0.517	0.594
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	0.055	2.33	4/13/2009	0.777	0.471	0.669
VT05	mg/l	86	85	98.8	4/22/2008	11/6/2019	0.02	0.02	0.082	1.36	5/21/2018	0.388	0.379	0.200
VM05	mg/l	85	85	100.0	4/22/2008	9/2/2020	--	--	0.162	0.815	4/10/2013	0.404	0.378	0.151

Notes:

^a - Earliest date of available data after 9/30/2005

^b - Latest date of available data prior to 10/1/2020

^c - Median is the exact result value ranking as the 0.50 percentile in an ascending list of all results. When the ascending list of all results doesn't produce an exact match to the corresponding percentile rank, average of two adjacent results ranking closest to 0.50 percentile is the median.

-- Data not available

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Alkalinity															
M10	mg/l	291	291	100.0	10/12/2005	9/2/2020	--	--	2.94	16.2	3/25/2014	6.680	6.200	2.561	
M20	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	6.7	33.2	3/11/2014	14.934	13.900	5.769	
C10											2008-03-20; 2008-04-16;				
	mg/l	86	86	100.0	12/13/2005	9/1/2020	--	--	8	31	2009-03-12	22.163	23.500	5.598	
M30	mg/l	160	160	100.0	10/17/2005	9/1/2020	--	--	6.7	37.9	3/11/2009	16.139	14.800	6.807	
C20	mg/l	91	91	100.0	12/12/2005	9/1/2020	--	--	8	48	1/9/2018	20.613	22.000	7.484	
M40	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	7.9	31.4	3/11/2009	20.439	22.050	6.642	
M50	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	7.8	32.8	4/5/2010	21.487	22.950	6.931	
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	8.2	36.1	3/14/2007	22.079	23.100	7.141	
T10	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	8.9	32.6	3/9/2016	16.374	16.250	4.252	
M70	mg/l	199	199	100.0	2/1/2006	9/2/2020	--	--	9	38.6	3/11/2014	20.600	21.900	6.628	
C30	mg/l	143	143	100.0	10/13/2005	6/15/2020	--	--	4	65	5/7/2007	21.038	22.000	8.254	
C40	mg/l	151	150	99.3	10/20/2005	7/21/2020	2	2	8	83	5/7/2007	21.170	22.000	8.600	
C50	mg/l	139	138	99.3	10/20/2005	7/21/2020	2	2	8	33	12/8/2006	20.317	22.000	6.847	
M90	mg/l	227	227	100.0	2/1/2006	9/1/2020	--	--	4	42.2	3/10/2014	21.381	22.000	7.223	
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	45.3	282	11/13/2012	167.891	171.000	66.856	
M130	mg/l	160	160	100.0	10/19/2005	9/1/2020	--	--	17.5	219	3/7/2018	109.592	91.600	60.101	
M140	mg/l	161	161	100.0	10/21/2005	9/1/2020	--	--	22.2	193	4/12/2016	100.834	98.600	40.426	
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	21	258	5/6/2009	116.094	118.500	43.307	
VT05	mg/l	65	65	100.0	4/22/2008	11/6/2019	--	--	85.9	333	2/6/2017	257.337	263.000	54.589	
VM05	mg/l	73	73	100.0	4/22/2008	9/2/2020	--	--	43.9	283	4/22/2008	210.644	222.000	55.333	

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Dissolved oxygen (DO)															
M10	mg/l	166	166	100.0	10/12/2005	9/2/2020	--	--	8	11.1	11/7/2016	9.584	9.750	0.809	
M20	mg/l	178	178	100.0	10/17/2005	11/6/2018	--	--	7.8	12.2	1/6/2009	9.764	9.700	1.105	
C10	mg/l	144	144	100.0	12/13/2005	9/1/2020	--	--	7.3	9.9	4/7/2020	8.380	8.400	0.562	
M30	mg/l	203	203	100.0	10/17/2005	9/1/2020	--	--	7.7	13.1	11/13/2006	9.944	9.600	1.382	
C20	mg/l	141	141	100.0	12/12/2005	9/1/2020	--	--	6.6	11	12/5/2016	8.879	9.000	1.051	
M40	mg/l	145	145	100.0	10/17/2005	11/6/2018	--	--	7.6	11.6	2/6/2006	9.718	9.800	1.158	
M50	mg/l	199	199	100.0	10/18/2005	9/2/2020	--	--	7.2	12.4	3/11/2010	9.327	9.200	1.312	
M60	mg/l	157	157	100.0	10/18/2005	9/2/2020	--	--	7.6	12.7	11/14/2012	9.902	9.800	1.406	
T10	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	7.3	12.1	2/8/2006	9.745	9.600	1.331	
M70	mg/l	194	194	100.0	2/1/2006	9/16/2020	--	--	6.06	13.16	1/18/2011	9.629	9.400	1.471	
C30	mg/l	173	173	100.0	10/13/2005	6/15/2020	--	--	6.17	13.6	1/7/2008	9.696	9.700	1.285	
C40	mg/l	181	181	100.0	10/20/2005	9/16/2020	--	--	5.93	13.5	2008-01-07; 2020-03-05	10.023	10.000	1.529	
C50	mg/l	180	180	100.0	10/20/2005	9/16/2020	--	--	5.97	13.5	2/12/2008	9.984	9.900	1.443	
M90	mg/l	233	233	100.0	2/8/2006	9/16/2020	--	--	5.99	13.4	11/27/2012	9.781	9.400	1.484	
T20	mg/l	125	125	100.0	1/7/2008	7/7/2020	--	--	6.4	11.9	2/4/2020	9.128	9.000	1.222	
M130	mg/l	173	173	100.0	10/19/2005	9/1/2020	--	--	7.4	16.3	4/10/2012	10.340	10.300	1.743	
M140	mg/l	211	211	100.0	10/21/2005	9/1/2020	--	--	6	15.4	3/16/2007	9.708	9.300	1.759	
M150	mg/l	158	158	100.0	10/21/2005	9/1/2020	--	--	4.9	16.4	5/16/2007	9.356	9.000	1.929	
VT05	mg/l	82	82	100.0	4/22/2008	11/6/2019	--	--	5.7	12.02	4/10/2013	8.010	7.700	1.460	
VM05	mg/l	83	83	100.0	4/22/2008	9/2/2020	--	--	6.5	14.9	4/22/2008	9.224	8.600	1.937	

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Hardness														
M10	mg/l	320	320	100.0	10/12/2005	9/2/2020	--	--	3.76	23.4	3/25/2014	8.485	8.160	3.270
M20	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	5.17	33.7	3/11/2014	14.140	12.600	6.541
C10	mg/l	112	112	100.0	12/13/2005	9/1/2020	--	--	5.29	30	3/12/2009	19.579	20.950	5.555
M30	mg/l	160	160	100.0	10/17/2005	9/1/2020	--	--	5.26	36.1	3/11/2014	15.229	13.850	7.198
C20	mg/l	110	110	100.0	12/12/2005	9/1/2020	--	--	6.33	30	3/12/2009	18.489	20.000	6.604
M40	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	6.4	32.5	11/12/2013	18.575	19.650	6.389
M50	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	6.51	38.5	11/12/2013	20.450	21.250	7.105
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	6.76	40.5	11/13/2013	21.613	22.100	7.603
T10	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	6.46	30.2	3/9/2016	13.750	13.250	4.654
M70	mg/l	90	90	100.0	10/17/2006	9/2/2020	--	--	7.13	39.8	3/9/2016	20.601	21.400	6.890
C30	mg/l	54	54	100.0	10/20/2005	9/15/2010	--	--	7	30	2006-12-07; 2009-03-11	20.046	22.000	6.912
C40	mg/l	57	57	100.0	10/20/2005	9/14/2010	--	--	7	30	12/7/2006	20.388	22.000	6.855
C50	mg/l	58	58	100.0	10/20/2005	11/16/2010	--	--	7	31	12/8/2006	20.726	23.000	6.628
M90	mg/l	120	120	100.0	2/8/2006	9/1/2020	--	--	7.14	47.8	11/12/2013	21.530	21.800	8.329
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	54.1	362	11/13/2012	197.916	195.000	88.982
M130	mg/l	160	160	100.0	10/19/2005	9/1/2020	--	--	30	846	4/10/2012	350.342	232.000	251.753
M140	mg/l	161	161	100.0	10/21/2005	9/1/2020	--	--	43	589	4/13/2006	289.880	257.000	150.610
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	34.5	782	5/6/2009	325.887	314.500	149.376
VT05	mg/l	65	65	100.0	4/22/2008	11/6/2019	--	--	40.8	1110	2018-03-07; 2019-04-09	718.320	729.000	264.382
VM05	mg/l	73	73	100.0	4/22/2008	9/2/2020	--	--	49.3	847	5/12/2009	563.895	591.000	195.411

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
pH														
M10	std units	159	159	100.0	10/12/2005	9/2/2020	--	--	6.3	8.5	2/7/2017	7.148	7.200	0.408
M20	std units	168	168	100.0	10/17/2005	11/6/2018	--	--	6.5	8.6	3/6/2006	7.490	7.500	0.350
C10	std units	143	143	100.0	12/13/2005	9/1/2020	--	--	6.5	8.6	2006-02-06; 2006-03-06	7.545	7.500	0.332
M30	std units	200	200	100.0	10/17/2005	9/1/2020	--	--	6.7	8.9	4/8/2013	7.535	7.500	0.423
C20	std units	141	141	100.0	12/12/2005	9/1/2020	--	--	6.7	8.5	5/4/2010	7.501	7.500	0.323
M40	std units	142	142	100.0	10/17/2005	11/6/2018	--	--	6.8	8.6	2005-11-14; 2005-12-12; 2006-01-09; 2006-02-06; 2006-03-06; 2011-02-16	7.611	7.600	0.369
M50	std units	197	197	100.0	10/18/2005	9/2/2020	--	--	6.8	10	4/5/2010	7.834	7.700	0.590
M60	std units	155	155	100.0	10/18/2005	9/2/2020	--	--	6.5	9.1	4/11/2006	7.712	7.700	0.382
T10	std units	155	155	100.0	10/18/2005	9/2/2020	--	--	7	8.9	2/14/2011	7.551	7.500	0.274
M70	std units	192	192	100.0	2/1/2006	9/16/2020	--	--	6.68	9.5	3/14/2011	7.668	7.660	0.327
C30	std units	173	173	100.0	10/13/2005	6/15/2020	--	--	6	8.6	1/7/2008	7.447	7.500	0.407
C40	std units	181	181	100.0	10/20/2005	9/16/2020	--	--	6.4	8.8	3/5/2020	7.620	7.600	0.421
C50	std units	179	179	100.0	10/20/2005	9/16/2020	--	--	6.1	9	2012-09-17; 2016-05-23	7.743	7.700	0.426
M90	std units	229	229	100.0	2/8/2006	9/16/2020	--	--	7	9.2	3/16/2011	7.676	7.700	0.318
T20	std units	126	126	100.0	1/7/2008	7/7/2020	--	--	7.3	8.4	2009-04-13; 2010-04-05; 2011-05-09; 2018-02-08	8.083	8.100	0.175
M130	std units	174	174	100.0	10/19/2005	9/1/2020	--	--	7.3	8.6	3/9/2010	8.036	8.000	0.223
M140	std units	215	215	100.0	10/21/2005	9/1/2020	--	--	7.3	8.7	3/9/2010	7.986	8.000	0.243
M150	std units	160	160	100.0	10/21/2005	9/1/2020	--	--	7.5	8.7	2012-02-13; 2018-02-07	8.013	8.000	0.224
VT05	std units	81	81	100.0	4/22/2008	11/6/2019	--	--	7.66	8.94	4/6/2010	8.024	8.010	0.180
VM05	std units	79	79	100.0	4/22/2008	9/2/2020	--	--	7.65	8.95	4/6/2010	8.050	8.000	0.211

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Specific conductance														
M10	µS/cm	234	234	100.0	10/12/2005	9/2/2020	--	--	11	67	4/21/2015	25.299	23.000	10.148
M20	µS/cm	178	178	100.0	10/17/2005	11/6/2018	--	--	14	337	3/12/2013	42.382	35.000	30.749
C10	µS/cm	145	145	100.0	12/13/2005	9/1/2020	--	--	16	74	3/12/2007	48.738	52.000	13.302
M30	µS/cm	203	203	100.0	10/17/2005	9/1/2020	--	--	16	208	3/2/2020	47.655	39.000	28.588
C20	µS/cm	143	143	100.0	12/12/2005	9/1/2020	--	--	19	75	3/13/2007	49.147	53.000	15.660
M40	µS/cm	145	145	100.0	10/17/2005	11/6/2018	--	--	20	96	11/12/2013	49.690	53.000	16.244
M50	µS/cm	200	200	100.0	10/18/2005	9/2/2020	--	--	20	117	12/11/2013	57.895	57.000	22.007
M60	µS/cm	159	159	100.0	10/18/2005	9/2/2020	--	--	20	118	11/13/2013	64.478	65.000	22.660
T10	µS/cm	160	160	100.0	10/18/2005	9/2/2020	--	--	20	87	3/9/2016	42.656	42.000	13.258
M70	µS/cm	233	233	100.0	10/18/2005	9/16/2020	--	--	21	119.7	4/20/2020	58.800	58.000	22.044
C30	µS/cm	175	175	100.0	10/13/2005	6/15/2020	--	--	19	114	11/27/2013	52.539	54.000	17.308
C40	µS/cm	182	182	100.0	10/20/2005	9/16/2020	--	--	20	116	11/27/2013	52.888	54.000	17.054
C50	µS/cm	181	181	100.0	10/20/2005	9/16/2020	--	--	21	117	11/27/2013	52.399	55.000	16.710
M90	µS/cm	272	272	100.0	10/19/2005	9/16/2020	--	--	21	138	11/27/2013	60.978	59.000	23.811
T20	µS/cm	127	127	100.0	1/7/2008	7/7/2020	--	--	123	703	2/11/2013	420.528	422.000	167.764
M130	µS/cm	175	175	100.0	10/19/2005	9/1/2020	--	--	82	1970	12/13/2007	775.789	586.000	503.245
M140	µS/cm	215	215	100.0	10/21/2005	9/1/2020	--	--	117	1470	5/23/2011	701.302	595.000	355.561
M150	µS/cm	160	160	100.0	10/21/2005	9/1/2020	--	--	102	1740	5/6/2009	825.419	792.500	364.798
VT05	µS/cm	86	86	100.0	4/22/2008	11/6/2019	--	--	567	2480	3/5/2019	1721.930	1670.500	453.424
VM05	µS/cm	85	85	100.0	4/22/2008	9/2/2020	--	--	208	1864	4/12/2011	1332.133	1370.000	388.434

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Sulfate														
M10	mg/l	322	322	100.0	10/12/2005	9/2/2020	--	--	0.8	10.2	4/11/2013	2.444	2.320	1.110
M20	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	0.81	7.33	5/13/2013	2.570	2.430	1.046
C10	mg/l	91	91	100.0	12/13/2005	9/1/2020	--	--	0.75	4.12	2/19/2008	2.980	3.130	0.743
M30	mg/l	160	160	100.0	10/17/2005	9/1/2020	--	--	0.86	7.32	5/13/2013	2.915	2.810	1.249
C20	mg/l	91	91	100.0	12/12/2005	9/1/2020	--	--	1.03	4.16	5/11/2015	2.859	3.070	0.881
M40	mg/l	142	142	100.0	10/17/2005	11/6/2018	--	--	1	4.99	10/21/2013	2.878	2.990	0.846
M50	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	1.05	5.85	10/21/2013	3.464	3.535	1.113
M60	mg/l	159	159	100.0	10/18/2005	9/2/2020	--	--	1.03	6.55	2/14/2007	3.575	3.580	1.219
T10	mg/l	160	160	100.0	10/18/2005	9/2/2020	--	--	1.12	6.06	5/3/2010	2.562	2.280	1.064
M70	mg/l	148	131	88.5	2/1/2006	9/2/2020	1	10	1.12	7.1	4/21/2009	3.511	3.415	1.385
C30	mg/l	135	116	85.9	10/13/2005	6/15/2020	1	10	1.32	6.1	10/3/2013	3.167	3.180	1.154
C40	mg/l	137	120	87.6	10/20/2005	7/21/2020	1	10	1.38	6.05	10/3/2013	3.181	3.150	1.151
C50	mg/l	134	119	88.8	10/20/2005	7/21/2020	1	10	1.4	6.23	2013-10-03; 2015-05-26	3.173	3.150	1.136
M90	mg/l	189	173	91.5	2/1/2006	9/1/2020	1	10	1.09	20	1/31/2008	3.562	3.250	1.891
T20	mg/l	127	127	100.0	1/7/2008	7/7/2020	--	--	9.26	137	9/12/2016	45.862	36.800	30.014
M130	mg/l	160	160	100.0	10/19/2005	9/1/2020	--	--	9.99	828	4/10/2012	285.303	182.000	228.772
M140	mg/l	161	161	100.0	10/21/2005	9/1/2020	--	--	20.2	535	3/16/2007	233.698	197.000	135.448
M150	mg/l	160	160	100.0	10/21/2005	9/1/2020	--	--	21	715	5/6/2009	268.396	253.000	137.501
VT05	mg/l	35	35	100.0	4/16/2014	11/6/2019	--	--	297	1080	3/5/2019	724.314	811.000	237.645
VM05	mg/l	43	43	100.0	4/16/2014	9/2/2020	--	--	75.7	688	3/5/2019	481.633	472.000	148.277

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
Temperature														
M10	deg C	330	330	100.0	10/12/2005	9/2/2020	--	--	-0.1	18	7/17/2007	6.606	6.400	4.978
M20	deg C	179	179	100.0	10/17/2005	11/6/2018	--	--	0	15.5	8/7/2006	6.381	6.200	4.673
C10	deg C	145	145	100.0	12/13/2005	9/1/2020	--	--	1.9	18.2	8/14/2007	8.138	7.400	5.411
M30	deg C	204	204	100.0	10/17/2005	9/1/2020	--	--	0	17	8/9/2016	7.178	7.000	4.683
C20	deg C	143	143	100.0	12/12/2005	9/1/2020	--	--	0.7	18	8/7/2006	8.200	7.400	5.429
M40	deg C	146	146	100.0	10/17/2005	11/6/2018	--	--	0.8	18	8/13/2007	8.261	7.600	5.325
M50	deg C	200	200	100.0	10/18/2005	9/2/2020	--	--	0	19.6	2012-07-23; 2018-08-07	9.736	9.350	5.480
M60	deg C	159	159	100.0	10/18/2005	9/2/2020	--	--	0	19.8	8/14/2007	8.007	8.200	5.902
T10	deg C	160	160	100.0	10/18/2005	9/2/2020	--	--	-0.1	19.8	8/4/2020	7.963	8.050	5.722
M70	deg C	251	248	98.8	2/1/2006	9/16/2020	0.02	0.04	0	20.6	8/14/2007	10.264	10.500	5.770
C30	deg C	175	175	100.0	10/13/2005	6/15/2020	--	--	1.2	19.11	8/1/2012	9.363	9.440	5.525
C40	deg C	182	182	100.0	10/20/2005	9/16/2020	--	--	0.1	19.7	8/6/2008	9.544	9.740	5.543
C50	deg C	180	180	100.0	10/20/2005	9/16/2020	--	--	0.5	20.2	8/10/2010	10.203	10.925	5.879
M90	deg C	256	254	99.2	2/8/2006	9/16/2020	0.01	0.3	0	20.1	8/3/2020	9.907	10.600	6.092
T20	deg C	126	126	100.0	1/7/2008	7/7/2020	--	--	0.8	21	7/8/2013	11.647	12.150	5.315
M130	deg C	175	175	100.0	10/19/2005	9/1/2020	--	--	0.1	23.4	7/10/2018	11.242	12.100	6.621
M140	deg C	215	215	100.0	10/21/2005	9/1/2020	--	--	1.2	24.4	7/10/2018	13.414	13.700	5.747
M150	deg C	160	160	100.0	10/21/2005	9/1/2020	--	--	0	27.3	7/10/2018	11.807	11.500	5.751
VT05	deg C	85	85	100.0	4/22/2008	11/6/2019	--	--	0.2	20.3	2018-07-10; 2019-07-08	13.447	14.910	4.975
VM05	deg C	85	85	100.0	4/22/2008	9/2/2020	--	--	0	22	6/7/2017	13.275	14.630	5.627

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
TOC														
M10	mg/l	120	120	100.0	1/9/2008	9/2/2020	--	--	1.6	19.9	5/15/2013	4.005	2.530	3.220
M20	mg/l	145	145	100.0	10/17/2005	11/6/2018	--	--	1.5	15.1	5/13/2013	3.472	2.500	2.320
C10	mg/l	141	140	99.3	12/13/2005	9/1/2020	0.2	0.2	2.4	5.4	6/10/2009	3.718	3.640	0.612
M30	mg/l	169	169	100.0	10/17/2005	9/1/2020	--	--	1.79	11.4	5/9/2011	3.468	2.590	2.024
C20	mg/l	139	139	100.0	12/12/2005	9/1/2020	--	--	2.2	7.5	6/8/2010	3.837	3.500	0.956
M40	mg/l	117	117	100.0	10/17/2005	11/6/2018	--	--	2.64	8.02	5/12/2015	3.921	3.700	0.917
M50	mg/l	163	163	100.0	10/18/2005	9/2/2020	--	--	2.52	8.61	5/26/2015	4.298	4.040	1.111
M60	mg/l	129	129	100.0	10/18/2005	9/2/2020	--	--	2.38	11.5	5/15/2015	4.231	3.900	1.254
T10	mg/l	132	132	100.0	10/18/2005	9/2/2020	--	--	1.5	14.2	5/15/2013	3.344	2.500	2.085
M70	mg/l	147	146	99.3	10/17/2006	9/2/2020	3.4	3.4	2.47	14.8	5/23/2017	4.291	3.480	1.973
C30	mg/l	152	152	100.0	12/15/2005	6/15/2020	--	--	2.46	14.6	10/3/2013	3.904	3.585	1.299
C40	mg/l	161	161	100.0	10/20/2005	7/21/2020	--	--	1.7	14.7	10/3/2013	3.975	3.600	1.408
C50	mg/l	161	160	99.4	10/20/2005	7/21/2020	0.2	0.2	1.3	14.1	10/3/2013	3.926	3.600	1.387
M90	mg/l	194	194	100.0	2/8/2006	9/1/2020	--	--	2.43	11.82	5/26/2015	4.169	3.545	1.626
T20	mg/l	110	110	100.0	1/7/2008	7/7/2020	--	--	1.78	11.6	5/15/2015	4.443	3.465	2.217
M130	mg/l	132	132	100.0	10/19/2005	9/1/2020	--	--	2.3	11.5	5/14/2015	4.439	4.105	1.251
M140	mg/l	164	164	100.0	10/21/2005	9/1/2020	--	--	3.76	13.3	5/23/2017	5.849	5.555	1.615
M150	mg/l	131	131	100.0	10/21/2005	9/1/2020	--	--	3.75	11.5	5/14/2015	5.794	5.600	1.318
VT05	mg/l	61	61	100.0	4/22/2008	11/6/2019	--	--	4.09	14.4	5/4/2010	6.087	5.750	1.711
VM05	mg/l	66	66	100.0	4/22/2008	9/2/2020	--	--	2.99	12.9	5/4/2010	5.477	5.150	1.495

Table A-3. Summary Statistics for General Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
TSS														
M10	mg/l	13	13	100.0	4/11/2013	11/13/2013	--	--	2	55	5/15/2013	16.692	13.000	15.882
M20	mg/l	9	9	100.0	4/8/2013	11/12/2013	--	--	2	55	6/10/2013	11.111	5.000	16.907
C10	mg/l	104	55	52.9	1/9/2006	5/4/2020	1	15	0.7	9.5	6/9/2015	3.954	3.000	2.494
M30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C20	mg/l	113	67	59.3	1/10/2006	9/1/2020	1	15	1	19	6/8/2010	4.870	5.000	2.719
M40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M70	mg/l	76	62	81.6	2/1/2006	9/16/2020	1	10	1.3	317	5/10/2018	20.251	6.400	48.086
C30	mg/l	121	104	86.0	10/13/2005	6/15/2020	2	20	1	33	10/3/2013	4.020	3.000	3.425
C40	mg/l	124	111	89.5	2/1/2006	9/16/2020	5	5	1	32	2011-06-06; 2013-10-03	5.344	3.700	5.514
C50	mg/l	118	96	81.4	2/1/2006	9/16/2020	1	10	0.5	29.3	11/9/2017	5.165	3.750	5.415
M90	mg/l	114	99	86.8	2/1/2006	9/16/2020	1	5	1.3	828	4/17/2014	23.406	6.000	84.896
T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M140	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VT05	mg/l	17	17	100.0	4/6/2010	5/9/2012	--	--	10.7	372	7/12/2011	126.576	68.000	118.190
VM05	mg/l	17	17	100.0	4/6/2010	5/9/2012	--	--	5.4	153	7/12/2011	63.588	56.800	53.354

Notes:

^a - Earliest date of available data after 9/30/2005

^b - Latest date of available data prior to 10/1/2020

^c - Median is the exact result value ranking as the 0.50 percentile in an ascending list of all results. When the ascending list of all results doesn't produce an exact match to the corresponding percentile rank, average of two adjacent results ranking closest to 0.50 percentile is the median.

-- Data not available

Table A-4. Summary Statistics for Microbiological Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Escherichia coli															
M10	cfu/100ml	130	130	100	1/9/2008	9/2/2020	--	--	0	2420	8/12/2013	49.19	9.00	221.94	
M20	cfu/100ml	143	143	100	10/17/2005	11/6/2018	--	--	0	2420	7/7/2015	65.01	20.00	210.73	
C10	cfu/100ml	143	143	100	12/13/2005	9/1/2020	--	--	0	37	5/9/2016	1.89	0.00	5.19	
M30	cfu/100ml	160	160	100	10/17/2005	9/1/2020	--	--	0	2420	7/13/2009	72.15	26.50	211.81	
C20	cfu/100ml	40	40	100	12/12/2005	7/12/2016	--	--	0	400	7/10/2006	22.43	2.00	64.04	
M40	cfu/100ml	142	142	100	10/17/2005	11/6/2018	--	--	0	727	7/7/2015	29.30	6.50	75.75	
M50	cfu/100ml	159	159	100	10/18/2005	9/2/2020	--	--	0	1210	9/10/2013	37.42	10.00	117.12	
M60	cfu/100ml	158	158	100	10/18/2005	9/2/2020	--	--	0	1300	7/8/2015	28.21	4.00	115.49	
T10	cfu/100ml	159	159	100	10/18/2005	9/2/2020	--	--	0	1549	8/14/2012	79.11	16.00	201.48	
M70	cfu/100ml	158	158	100	10/18/2005	9/2/2020	--	--	0	461	7/8/2015	23.67	8.00	55.74	
C30	cfu/100ml	38	38	100	10/20/2005	10/3/2013	--	--	0	70	2006-07-13; 2006-07-27	12.98	3.00	20.28	
C40	cfu/100ml	42	42	100	10/20/2005	10/3/2013	--	--	0	73	9/11/2008	10.82	0.00	17.42	
C50	cfu/100ml	41	41	100	10/20/2005	10/3/2013	--	--	0	199	6/12/2008	13.25	1.00	32.51	
M90	cfu/100ml	161	161	100	10/19/2005	9/1/2020	--	--	0	488	7/8/2015	20.61	9.00	47.76	
T20	cfu/100ml	126	126	100	1/7/2008	7/7/2020	--	--	1	9678	9/14/2011	338.16	80.00	1040.67	
M130	cfu/100ml	160	160	100	10/19/2005	9/1/2020	--	--	0	24196	8/11/2015	323.39	64.00	1955.44	
M140	cfu/100ml	160	160	100	10/21/2005	9/1/2020	--	--	8	24196	8/11/2015	370.59	110.00	1936.27	
M150	cfu/100ml	161	161	100	10/21/2005	9/1/2020	--	--	0	12033	8/11/2015	256.40	94.00	988.40	
VT05	cfu/100ml	72	72	100	4/22/2008	11/6/2019	--	--	8	2596	7/10/2018	451.53	274.15	546.84	
VM05	cfu/100ml	80	80	100	4/22/2008	9/2/2020	--	--	6	2419.6	2013-09-11; 2014-05-14	569.94	392.50	605.42	

Table A-4. Summary Statistics for Microbiological Parameters (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations			
												Mean	Median ^c	St Dev	
Total Coliform															
M10	cfu/100ml	127	127	100	1/9/2008	9/2/2020	--	--	5	2420	2013-08-12; 2014-09-10	287.80	152.00	412.41	
M20	cfu/100ml	141	141	100	10/17/2005	11/6/2018	--	--	21	9678	9/16/2009	670.64	308.00	1019.46	
C10	cfu/100ml	143	143	100	12/13/2005	9/1/2020	--	--	0	2420	2009-09-15; 2010-09-14; 2013-09-10; 2014-09-09	206.76	38.00	487.40	
M30	cfu/100ml	157	157	100	10/17/2005	9/1/2020	--	--	20	17329	9/16/2009	815.50	411.00	1521.66	
C20	cfu/100ml	40	40	100	12/12/2005	7/12/2016	--	--	0	2800	7/10/2006	439.13	143.50	585.39	
M40	cfu/100ml	140	140	100	10/17/2005	11/6/2018	--	--	0	2800	7/11/2006	504.50	203.00	653.68	
M50	cfu/100ml	157	157	100	10/18/2005	9/2/2020	--	--	11	2420	2010-06-08; 2011-08-09; 2015-09-08; 2016-08-10; 2018-09-11; 2012-09-11	673.06	365.00	699.40	
M60	cfu/100ml	156	156	100	10/18/2005	9/2/2020	--	--	13	6212	8/11/2009	769.51	370.00	893.99	
T10	cfu/100ml	157	157	100	10/18/2005	9/2/2020	--	--	0	12262	9/16/2009	808.12	365.00	1445.30	
M70	cfu/100ml	158	158	100	10/18/2005	9/2/2020	--	--	10	4813	9/11/2012	808.94	419.00	943.65	
C30	cfu/100ml	37	37	100	10/20/2005	12/9/2008	--	--	0	1760	9/12/2007	293.38	170.00	379.83	
C40	cfu/100ml	41	41	100	10/20/2005	12/9/2008	--	--	8	2600	9/13/2007	588.78	359.00	691.54	
C50	cfu/100ml	40	40	100	10/20/2005	1/6/2009	--	--	9	3973	8/7/2008	605.65	357.50	812.17	
M90	cfu/100ml	160	160	100	10/19/2005	9/1/2020	--	--	18	7945	2012-07-10; 2012-09-11	791.94	415.50	1126.99	
T20	cfu/100ml	126	126	100	1/7/2008	7/7/2020	--	--	35	9678	2011-09-14; 2013-09-09	1631.37	992.50	1933.76	
M130	cfu/100ml	159	159	100	10/19/2005	9/1/2020	--	--	33	34658	7/9/2012	3393.51	2318.00	4896.34	
M140	cfu/100ml	159	159	100	10/21/2005	9/1/2020	--	--	170	48392	7/9/2012	5492.11	3250.00	6218.73	
M150	cfu/100ml	159	159	100	10/21/2005	9/1/2020	--	--	236	25994	2009-09-14; 2012-08-13; 2012-09-10	5563.82	2908.00	6325.68	
VT05	cfu/100ml	66	66	100	4/22/2008	11/6/2019	--	--	579	56000	8/11/2009	13288.92	5049.50	16078.90	
VM05	cfu/100ml	74	74	100	4/22/2008	9/2/2020	--	--	167	48392	2012-09-11; 2011-08-09; 2020-09-02	12403.75	4839.00	14740.55	

Notes:

^a - Earliest date of available data after 9/30/2005

^b - Latest date of available data prior to 10/1/2020

^c - Median is the exact result value ranking as the 0.50 percentile in an ascending list of all results. When the ascending list of all results doesn't produce an exact match to the corresponding percentile rank, average of two adjacent results ranking closest to 0.50 percentile is the median.

-- Data not available

Table A-5. Summary Statistics for Flow Rates (WY2006-2020)

Location	Units	# Analyzed	# Detected	% Detected	Earliest Sample Date ^a	Latest Sample Date ^b	Min DL	Max DL	Minimum Detected	Maximum Detected	Date of Max Detected Value	Detected and Nondetected at half DL Concentrations		
												Mean	Median ^c	St Dev
M10	cfs	4243	4243	100	10/12/2005	9/30/2020	--	--	1.6	761	9/13/2013	61.2060641	16.6	103.22
M20	cfs	4065	4065	100	10/1/2005	9/30/2020	--	--	0	2250	9/13/2013	161.086	68.300	220.733
C10	cfs	5443	5443	100	10/1/2005	9/30/2020	--	--	0	573	6/18/2006	331.927	399.000	201.577
M30	cfs	204	204	100	10/17/2005	9/1/2020	--	--	8.4	1060	6/9/2010	189.038	91.500	224.084
C20	cfs	5477	5477	100	10/1/2005	9/30/2020	--	--	0	572	6/16/2015	359.91	448.00	200.93
M40	cfs	5477	5477	100	10/1/2005	9/30/2020	--	--	8.17	1320	9/13/2013	104.70	51.70	129.25
M50	cfs	200	200	100	10/18/2005	9/2/2020	--	--	12	995	6/2/2020	141.24	111.00	149.17
M60	cfs	157	157	100	10/18/2005	9/2/2020	--	--	10	990	6/7/2010	122.65	78.00	155.73
T10	cfs	2233	2233	100	10/18/2005	9/30/2020	--	--	0	437	9/12/2013	34.80	18.40	39.88
M70	cfs	258	251	97	10/13/2005	9/16/2020	1	1	0	1220	6/7/2010	180.55	126.50	193.18
C30	cfs	5437	5437	100	10/1/2005	9/30/2020	--	--	0	907	10/8/2011	221.41	201.00	167.92
C40	cfs	5264	5264	100	10/1/2005	9/18/2020	--	--	0.37	522	5/4/2013	178.97	152.00	133.17
C50	cfs	4189	4189	100	10/20/2005	9/30/2020	--	--	0	516	2007-01-12; 2007-01-15	156.82	127.80	130.61
M90	cfs	262	251	96	10/13/2005	9/16/2020	1	1	0	1412.3	6/11/2015	215.43	145.30	235.82
T20	cfs	4545	4545	100	10/1/2005	9/30/2020	--	--	0	1150	9/15/2013	15.98	2.02	50.55
M130	cfs	4226	4226	100	10/19/2005	9/30/2020	--	--	1	7200	9/13/2013	76.81	30.95	241.30
M140	cfs	215	215	100	10/21/2005	9/1/2020	--	--	8.6	1450	6/9/2015	102.20	62.00	186.45
M150	cfs	160	160	100	10/21/2005	9/1/2020	--	--	0.99	1240	6/9/2015	62.89	25.00	158.31
VT05	cfs	66	66	100	10/25/2013	11/6/2019	--	--	4.03	288	5/13/2015	30.48	20.05	40.18
VM05	cfs	5457	5457	100	10/1/2005	9/30/2020	--	--	0	5900	9/16/2013	84.20	51.50	202.07

Notes:

^a - Earliest date of available data after 9/30/2005

^b - Latest date of available data prior to 10/1/2020

^c - Median is the exact result value ranking as the 0.50 percentile in an ascending list of all results. When the ascending list of all results doesn't produce an exact match to the corresponding percentile rank, average of two adjacent results ranking closest to 0.50 percentile is the median.

-- Data not available

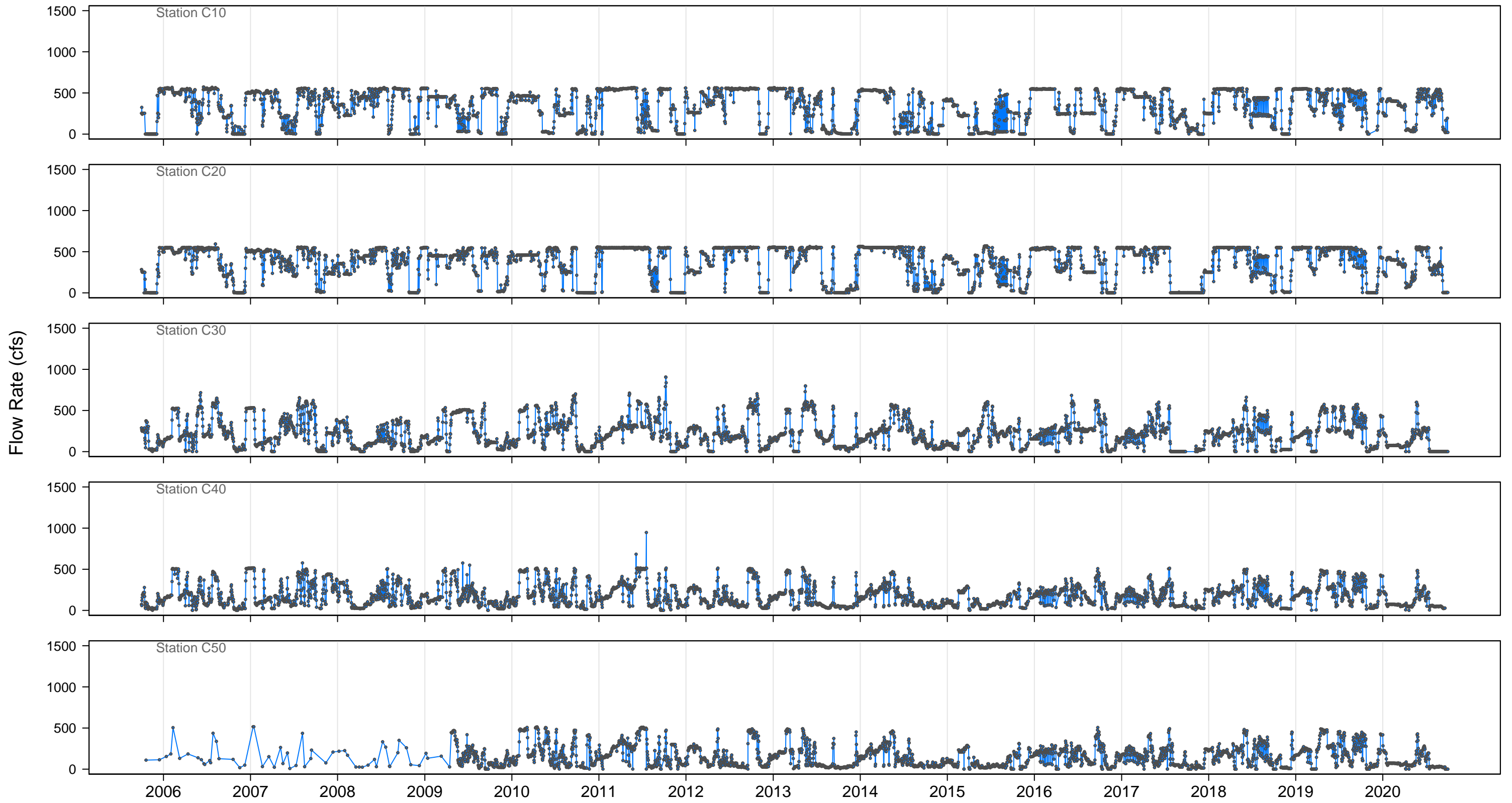


Figure B1-1
Big Thompson 2021 Report
Time-Series Plots
Flow Rate

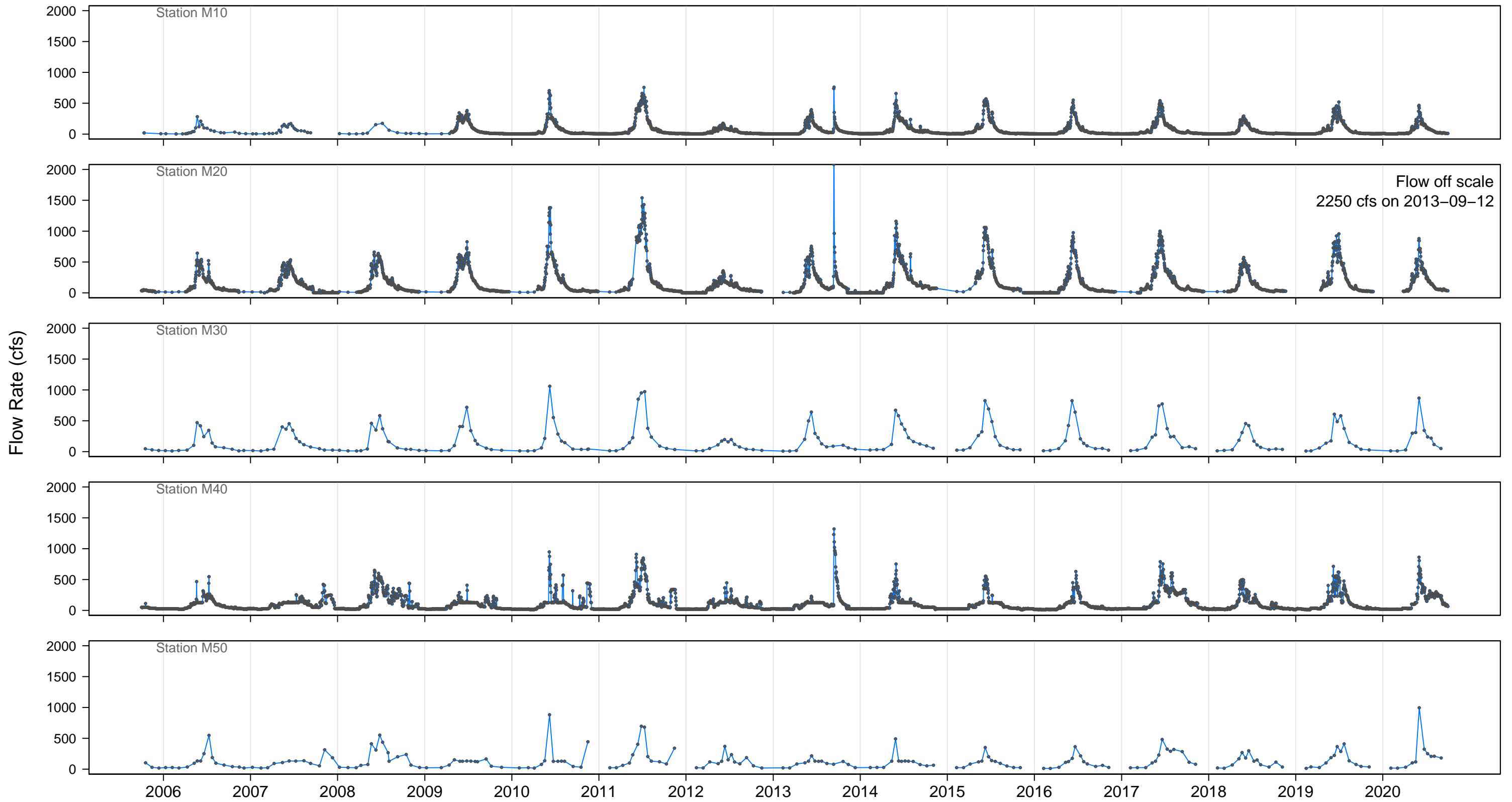


Figure B1-2
 Big Thompson 2021 Report
 Time-Series Plots
 Flow Rate

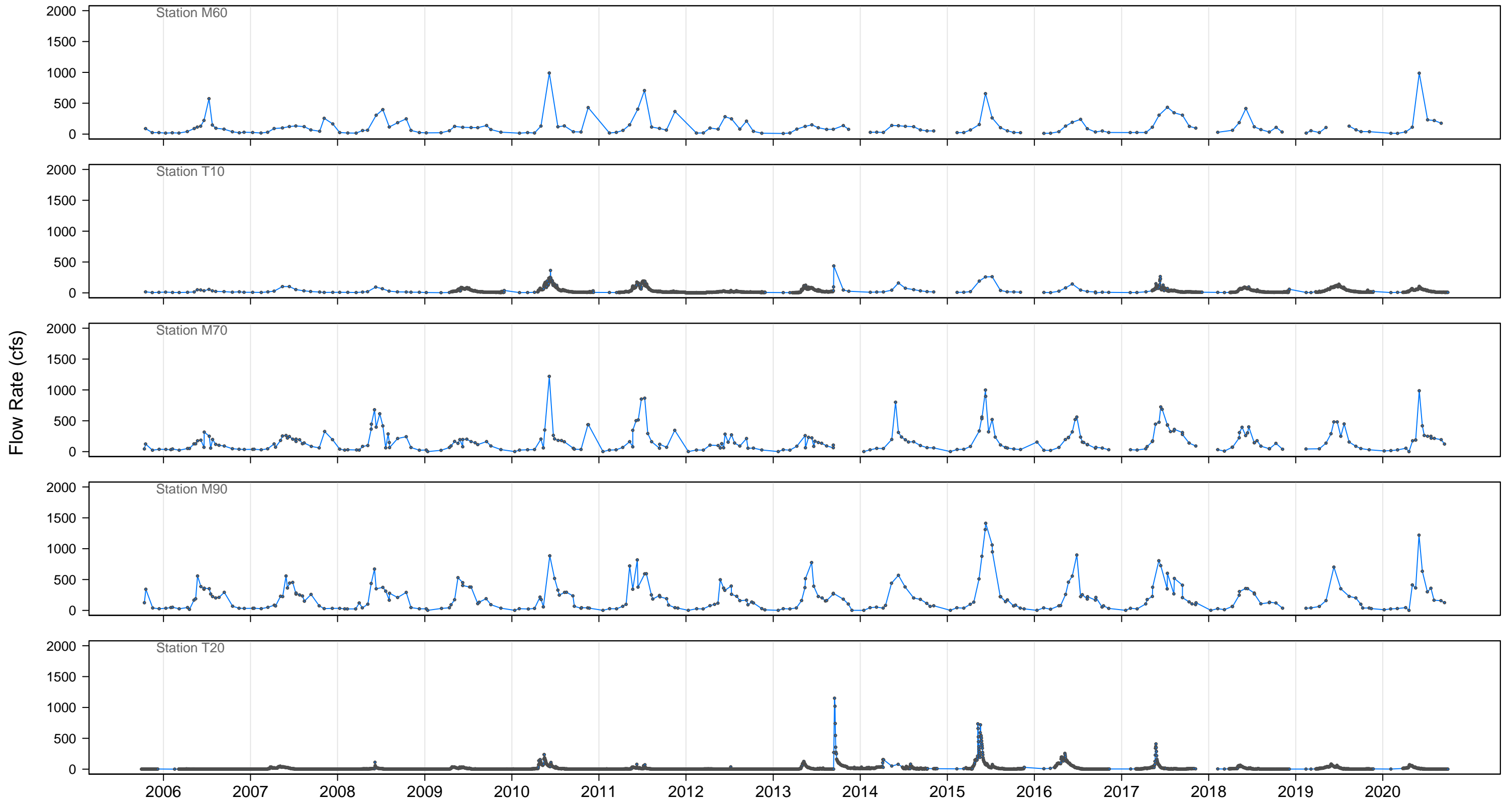


Figure B1-3
 Big Thompson 2021 Report
 Time-Series Plots
 Flow Rate

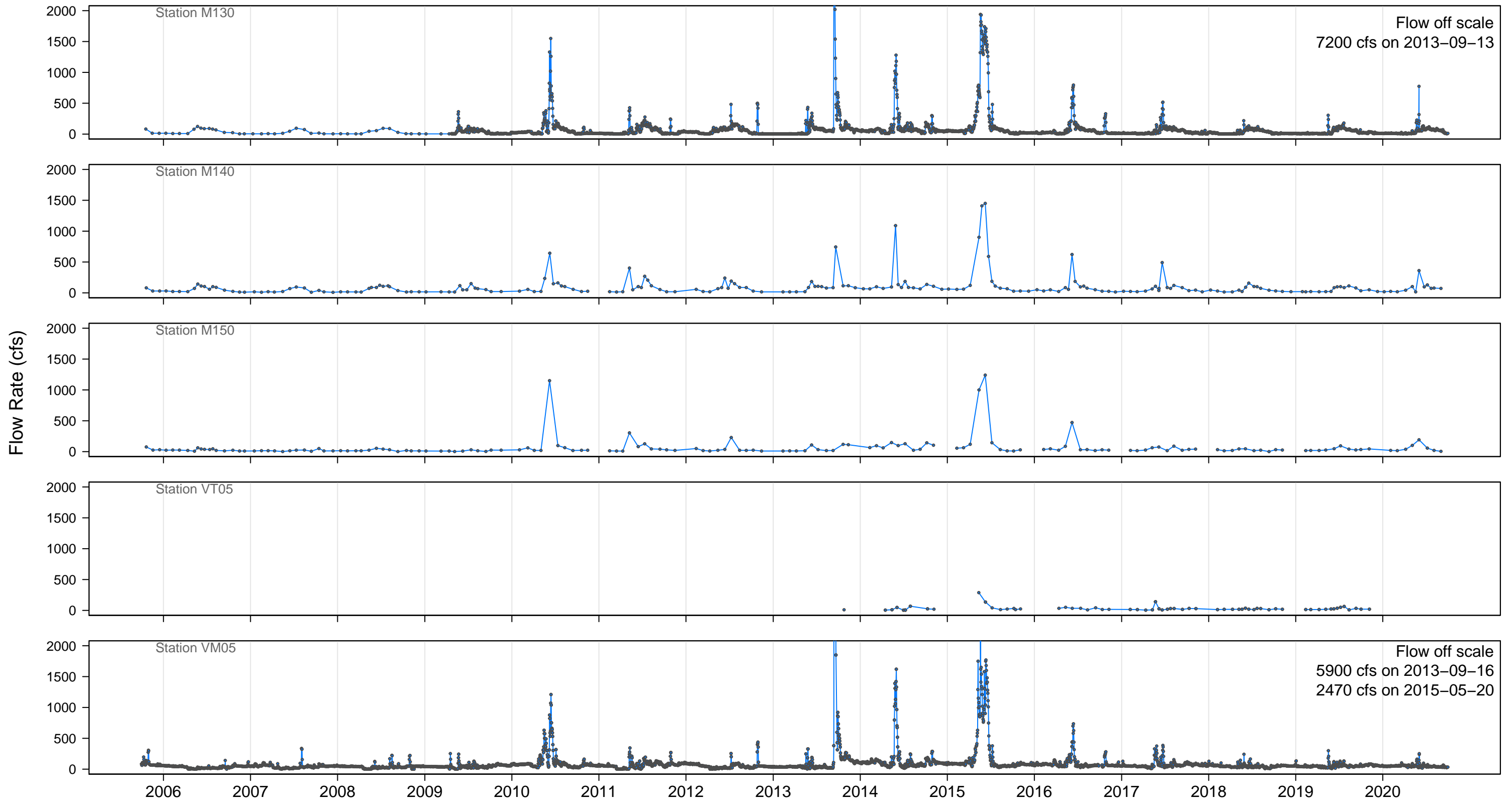
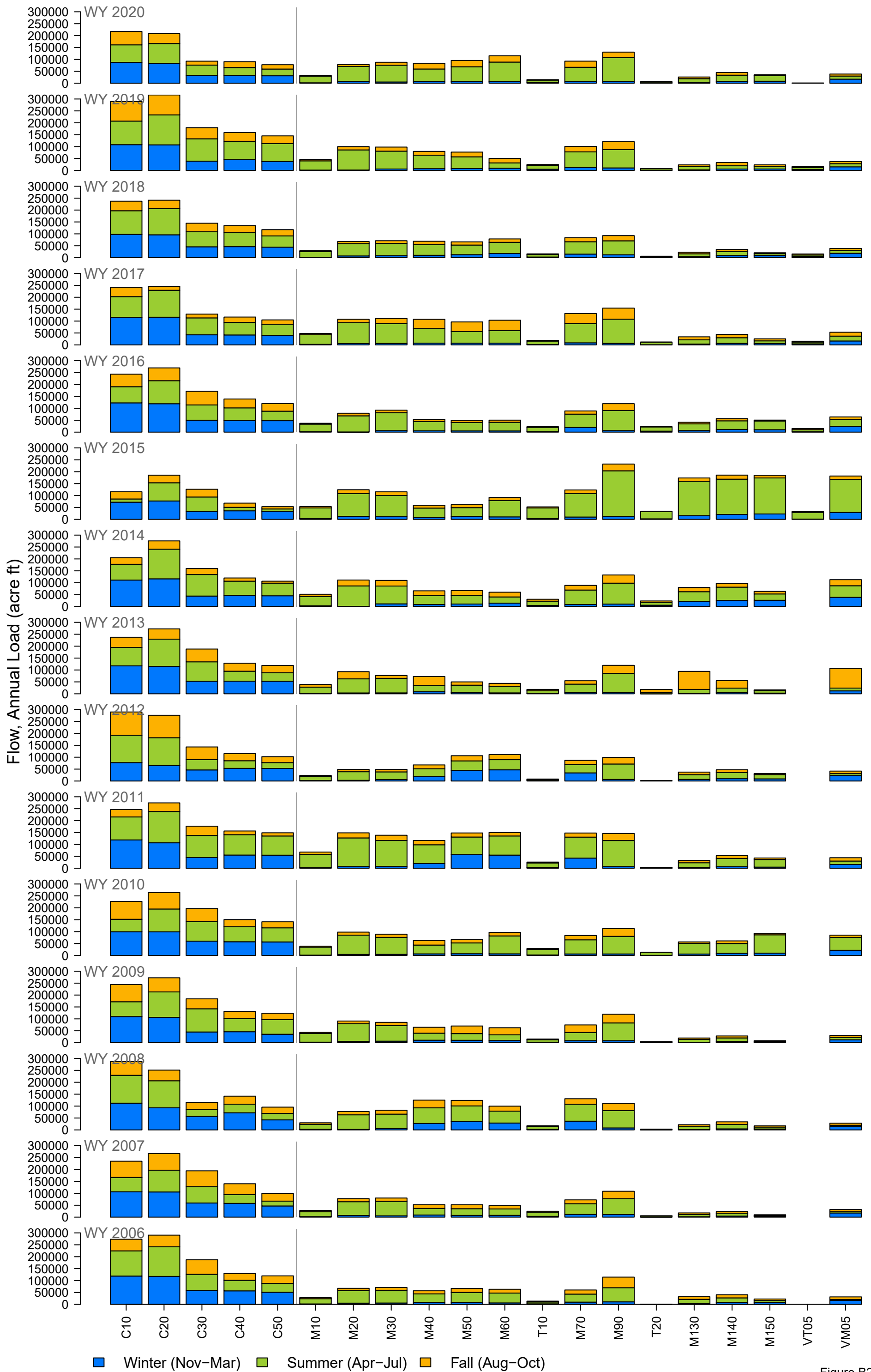
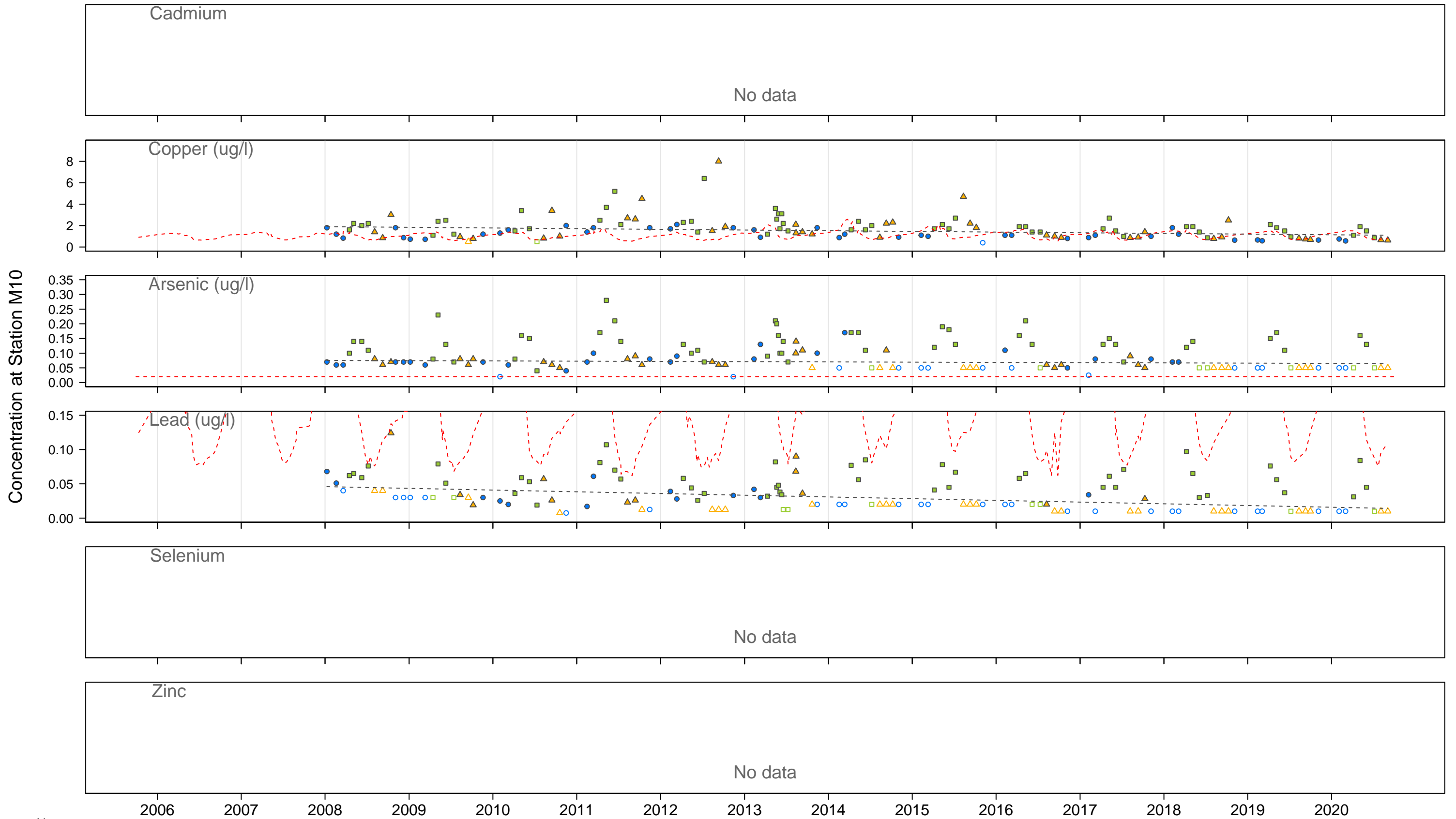


Figure B1-4
 Big Thompson 2021 Report
 Time-Series Plots
 Flow Rate



■ Winter (Nov-Mar) ■ Summer (Apr-Jul) ■ Fall (Aug-Oct)

Figure B2-2
Big Thompson 2021 Report
Annual Loads Bar Plots
Flow



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

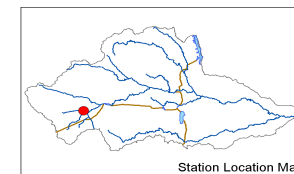
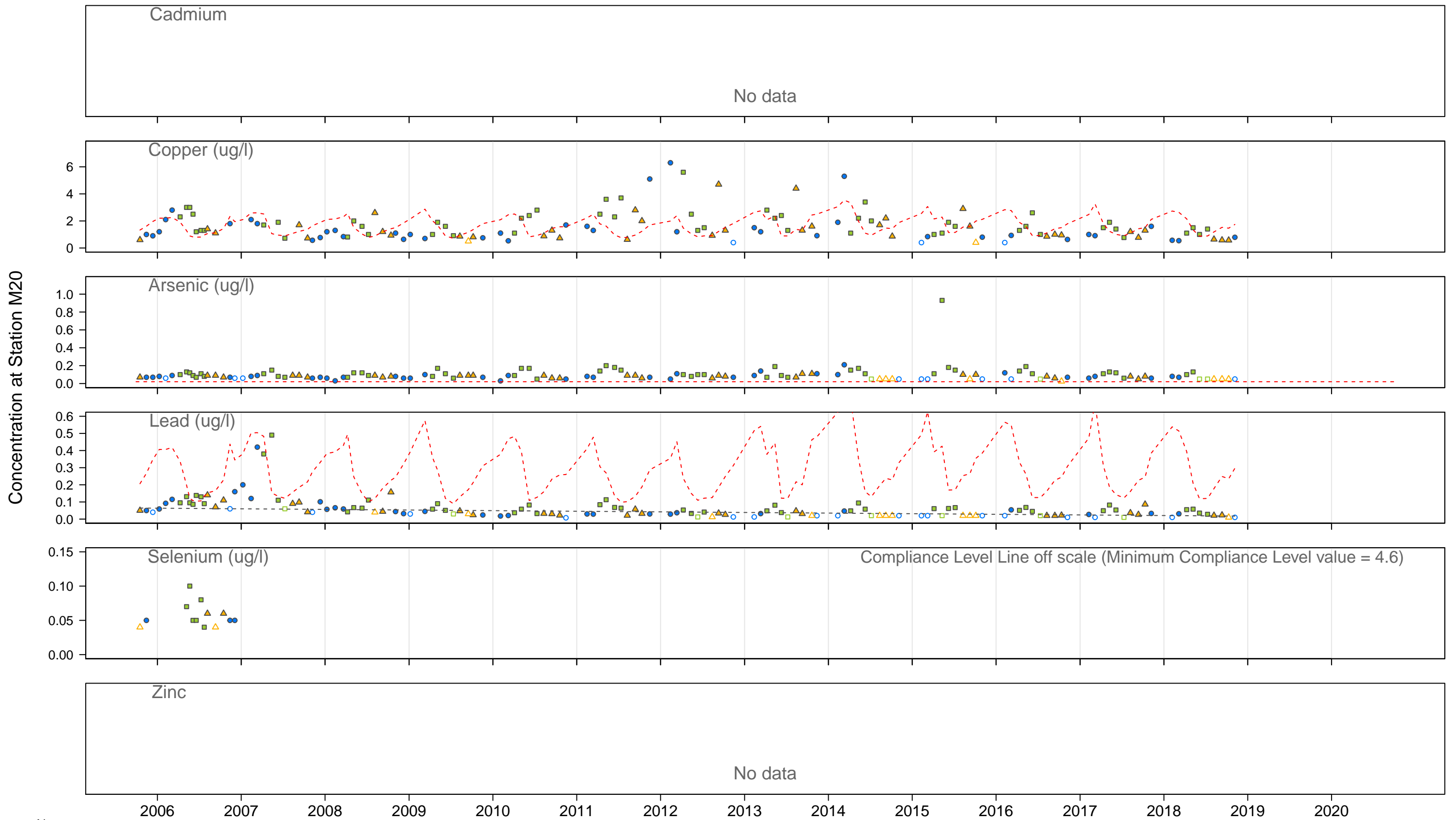


Figure C1-1
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

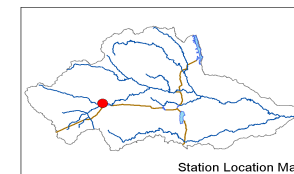
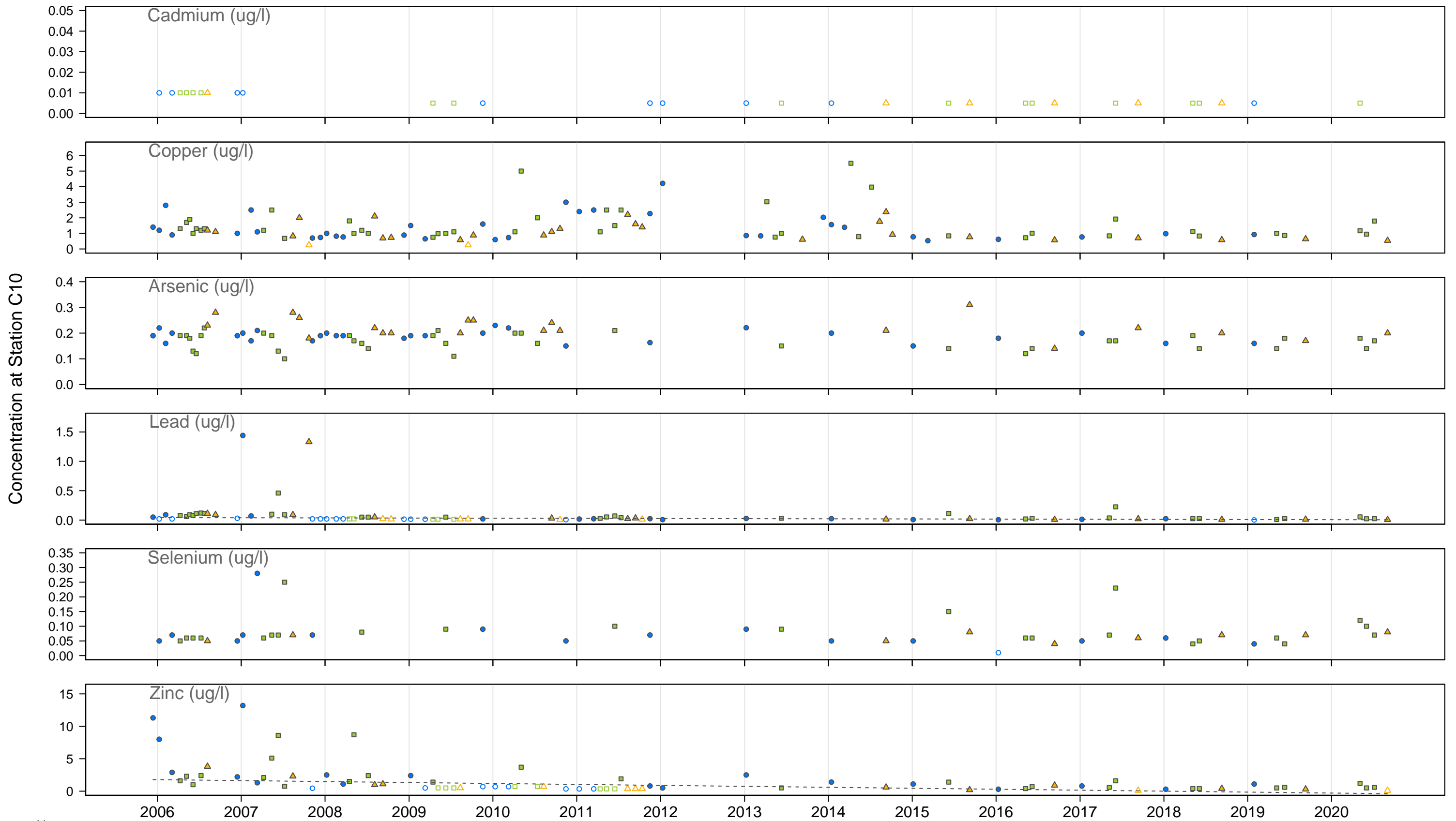


Figure C1-2
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

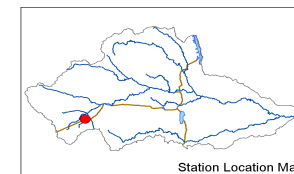
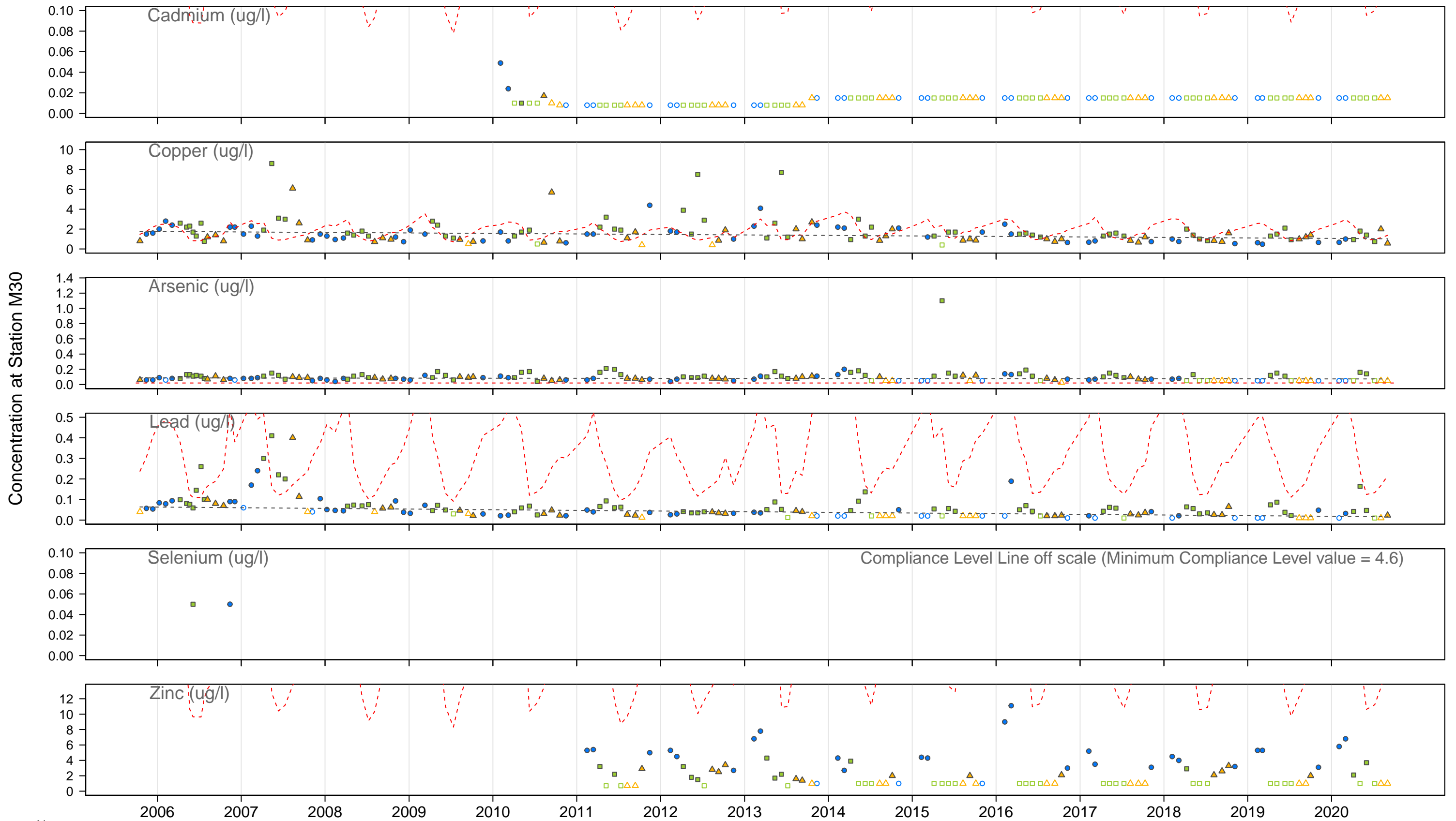


Figure C1-3
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

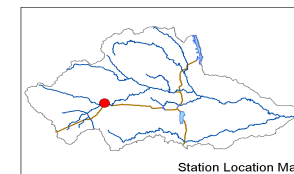
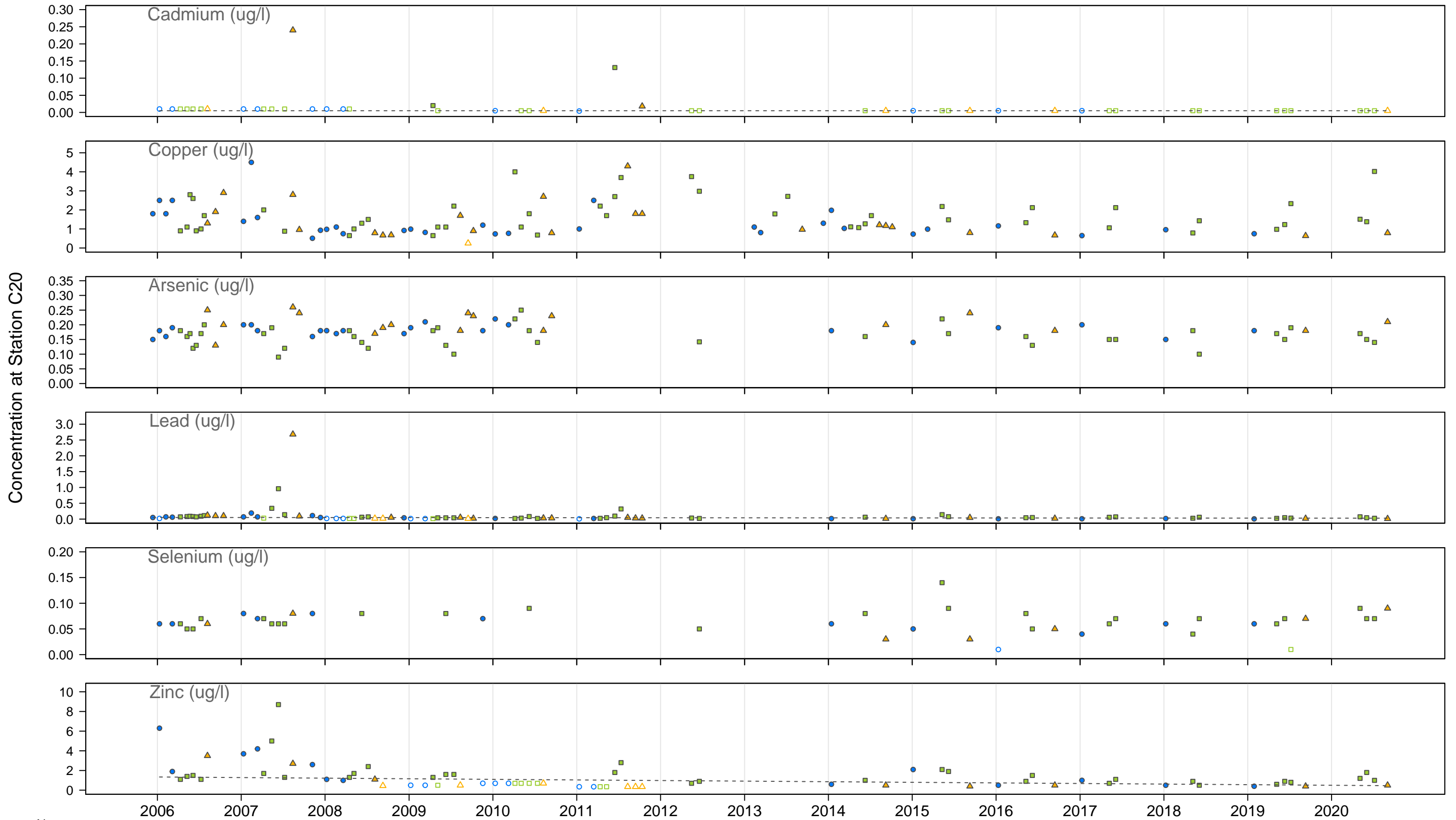


Figure C1-4
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

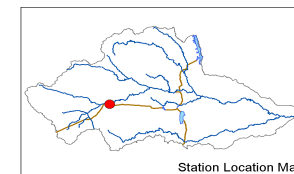
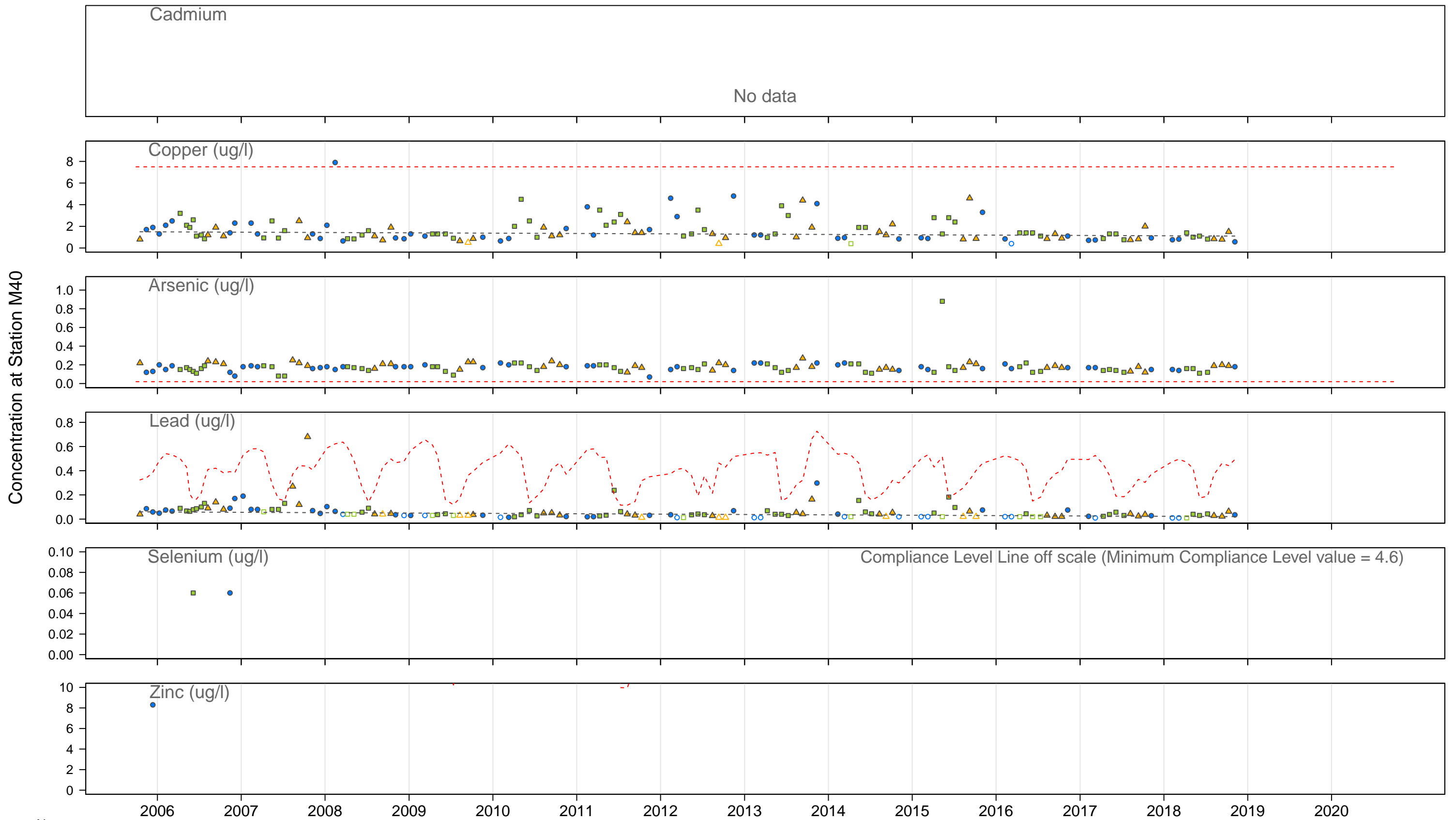


Figure C1-5
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C20



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non–Zero Mann–Kendall Trend
- - - Most Stringent Compliance Level

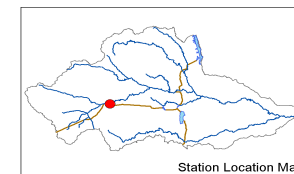
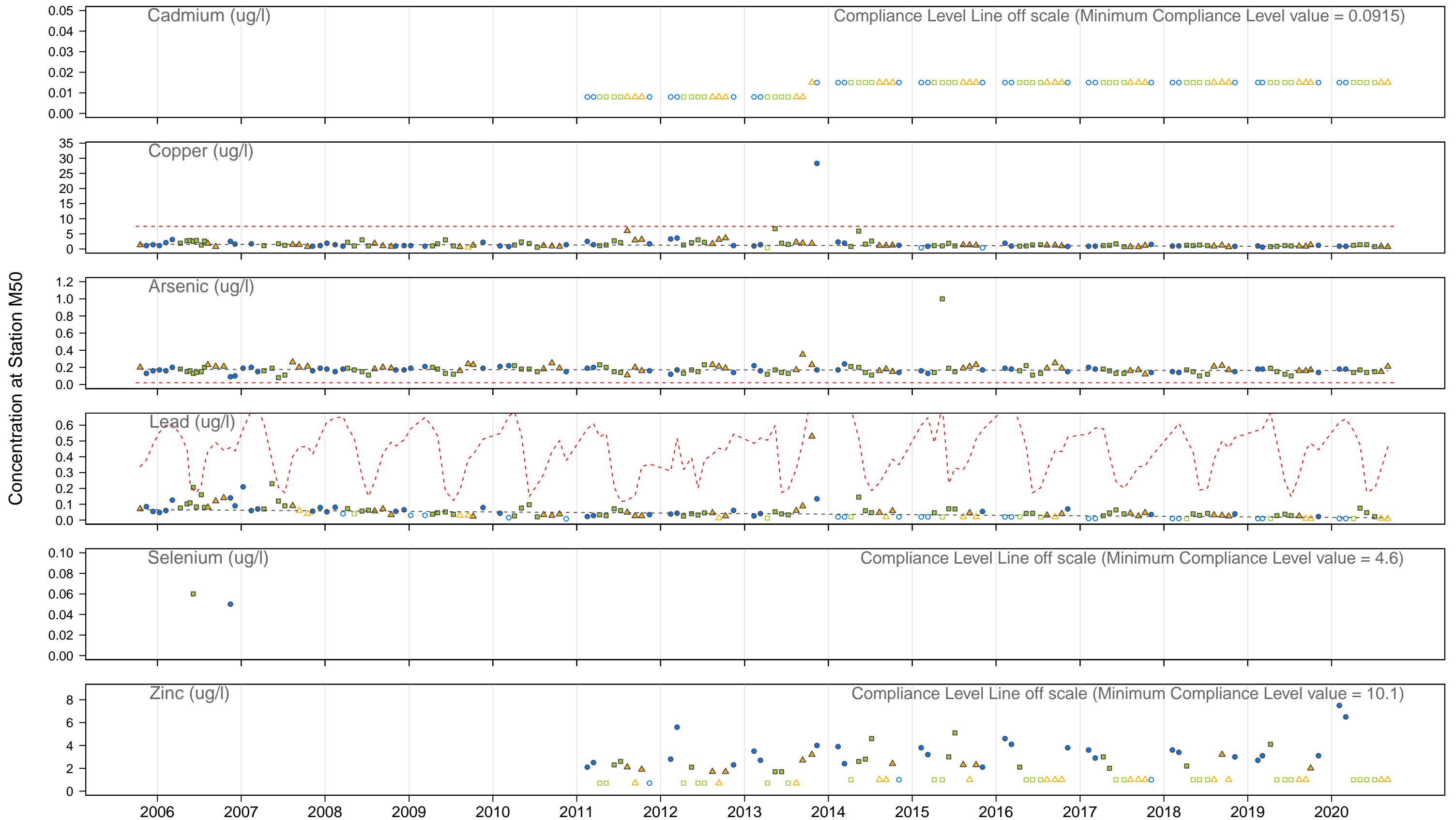


Figure C1–6
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- . - Most Stringent Compliance Level

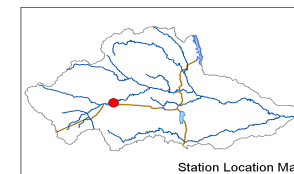
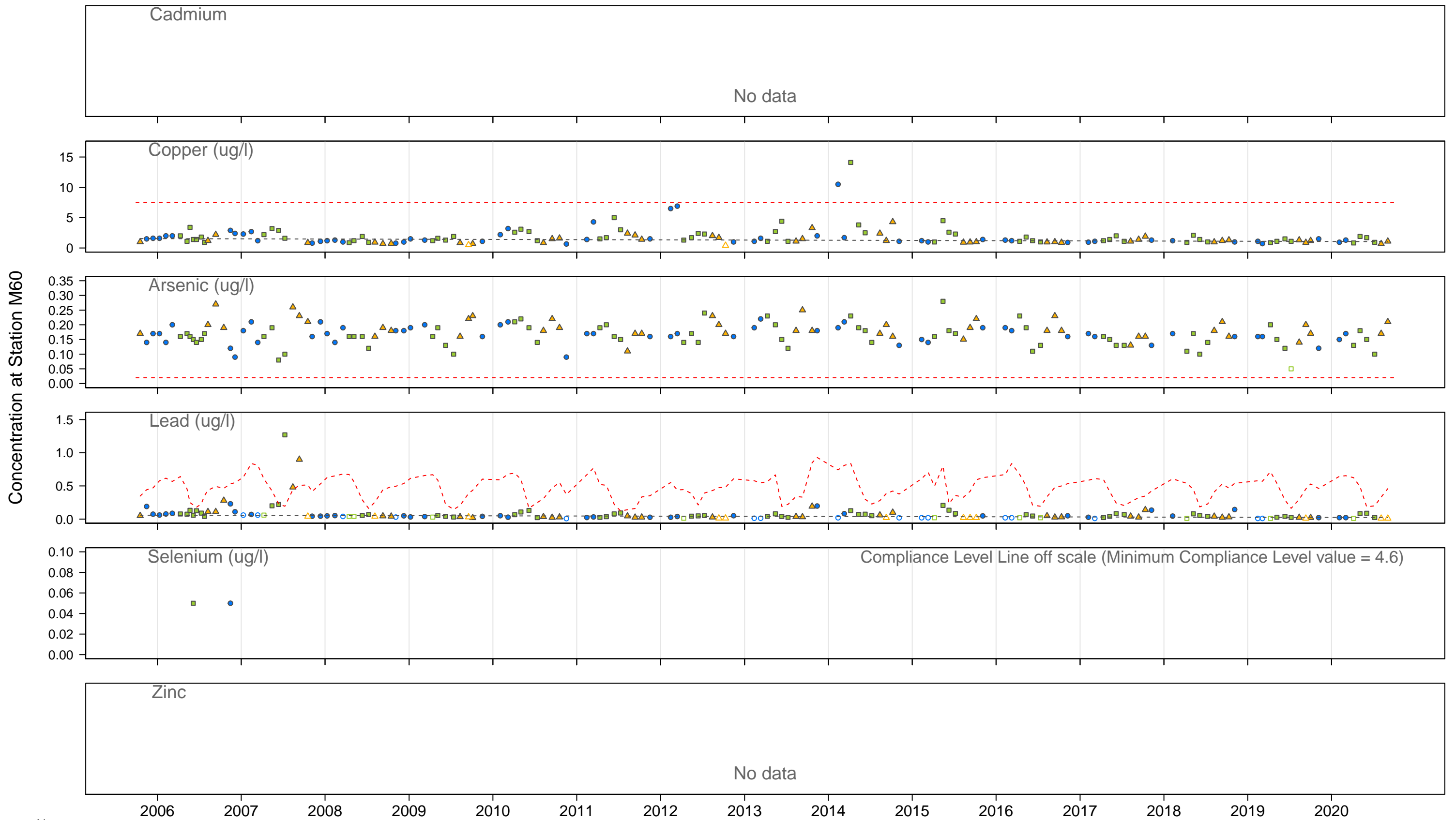


Figure C1-7
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

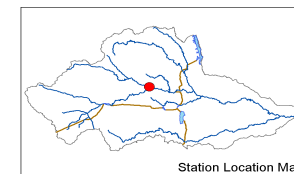
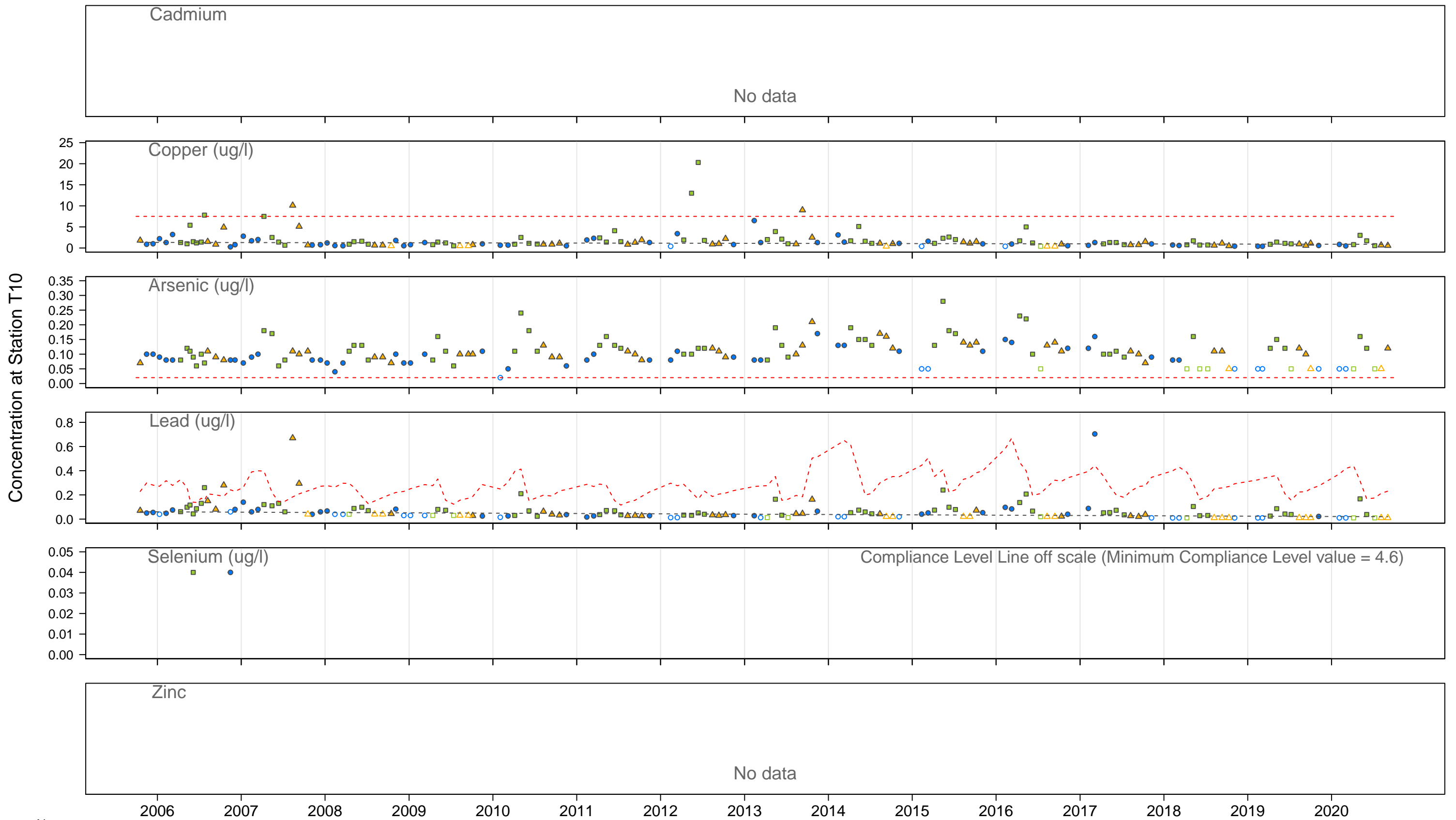


Figure C1-8
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M60



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

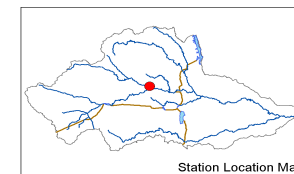
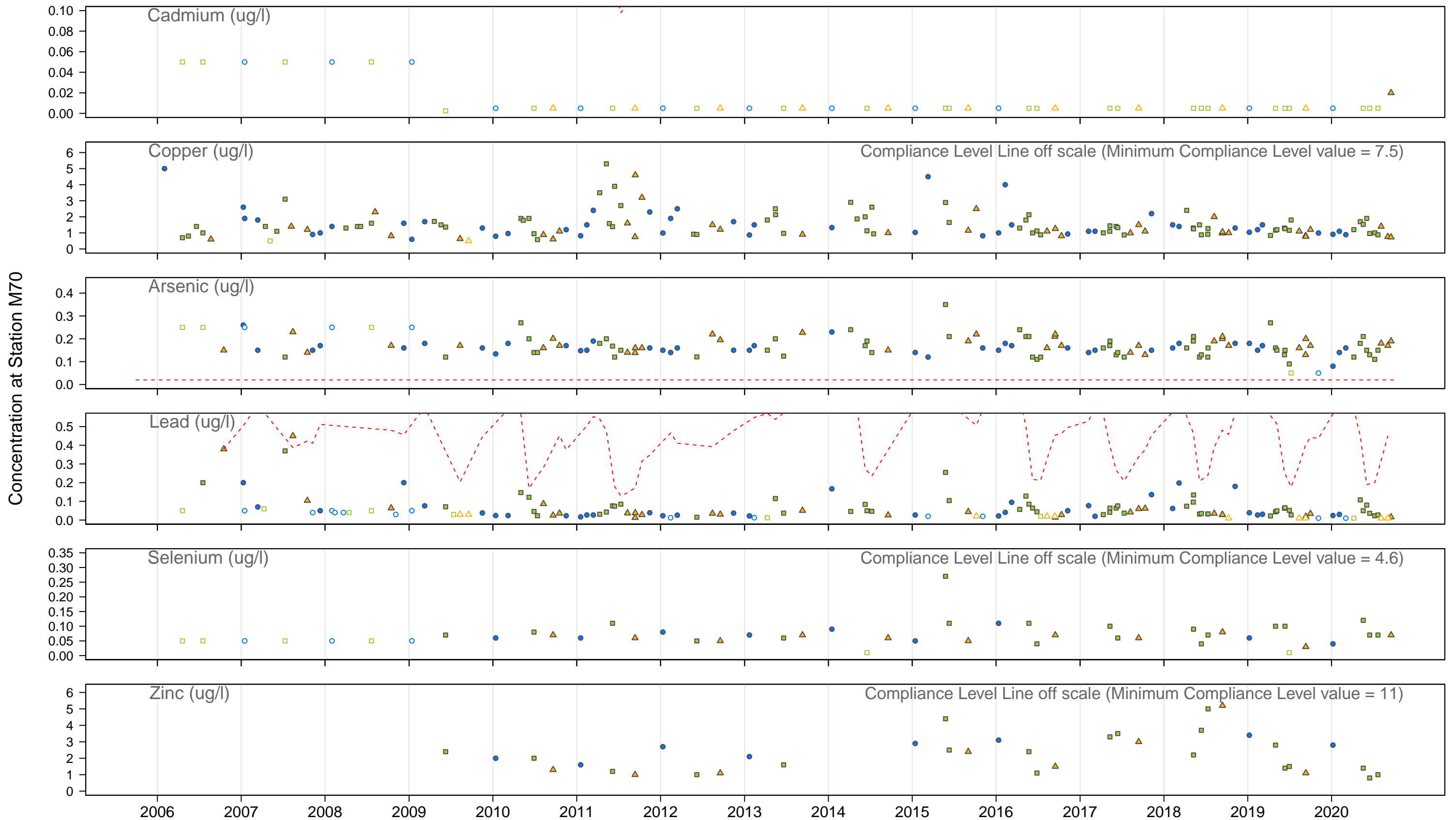


Figure C1-9
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

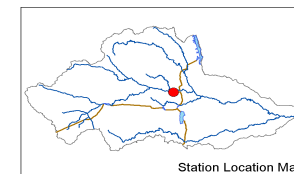
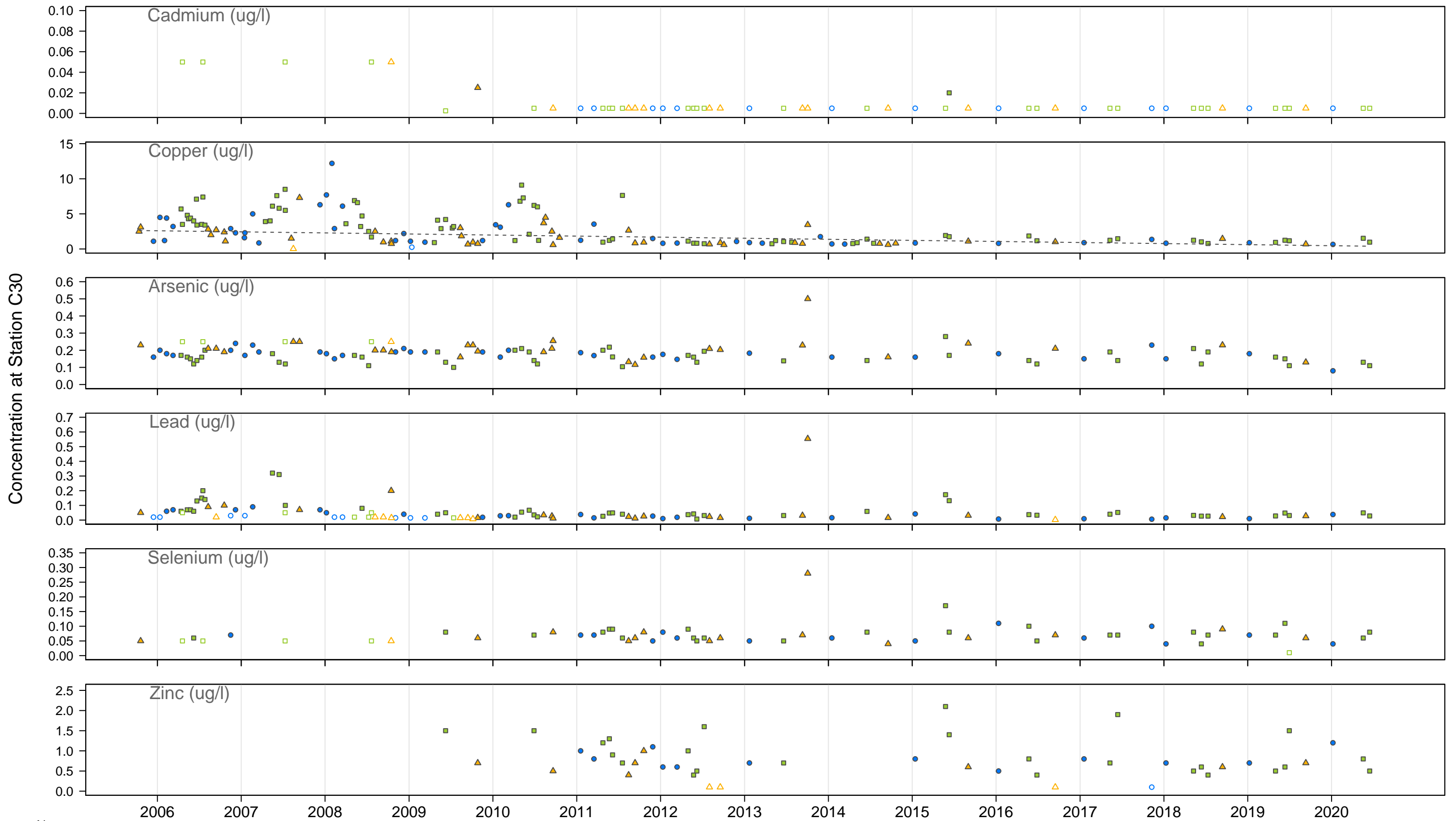


Figure C1-10
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M70



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

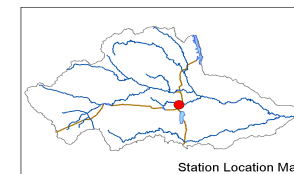
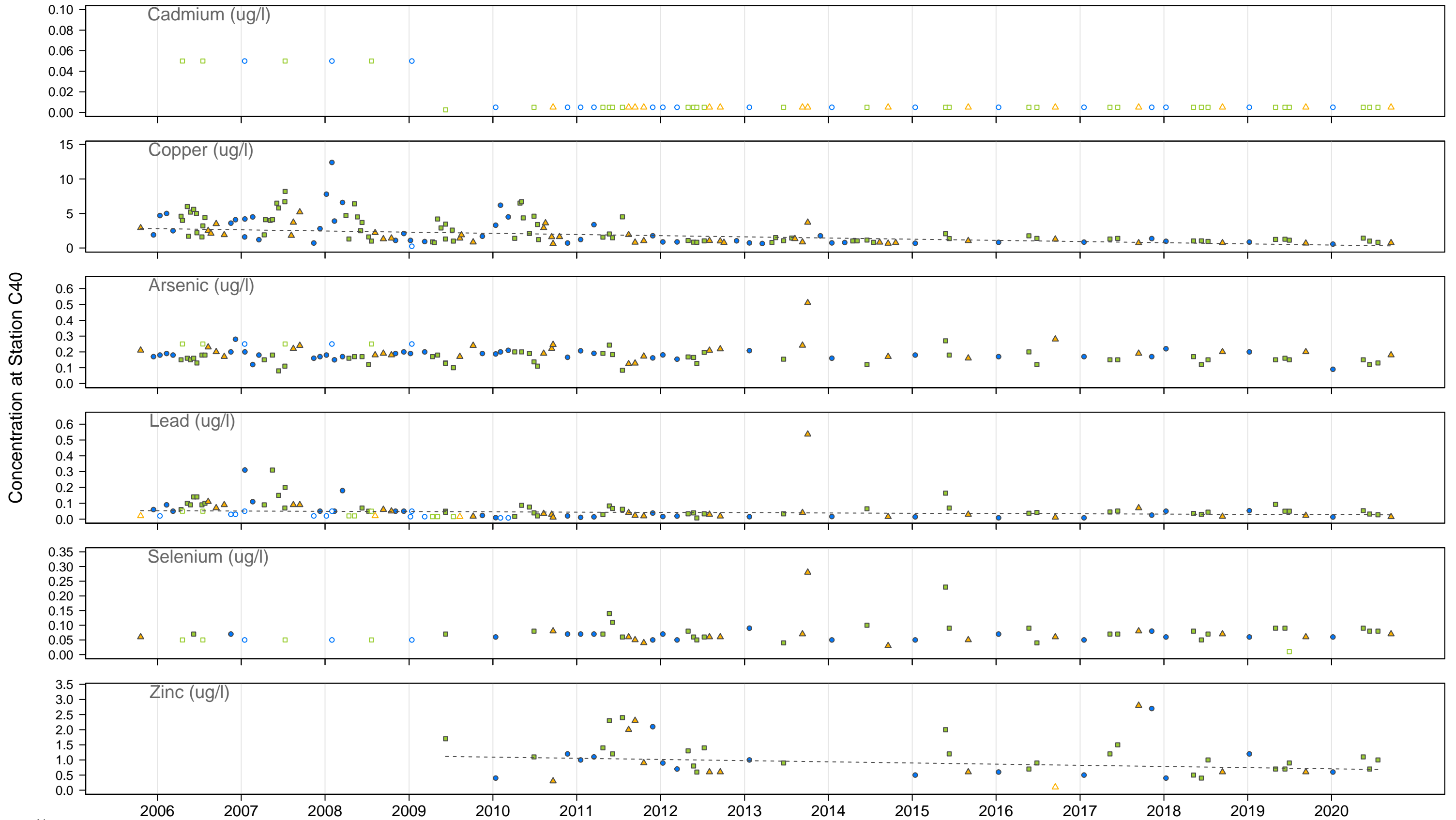


Figure C1-11
 Big Thompson 2021 Report
 Time-Series Water Quality Plots
 Station C30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

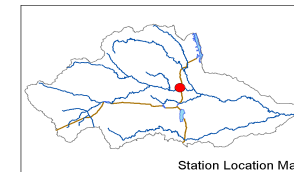
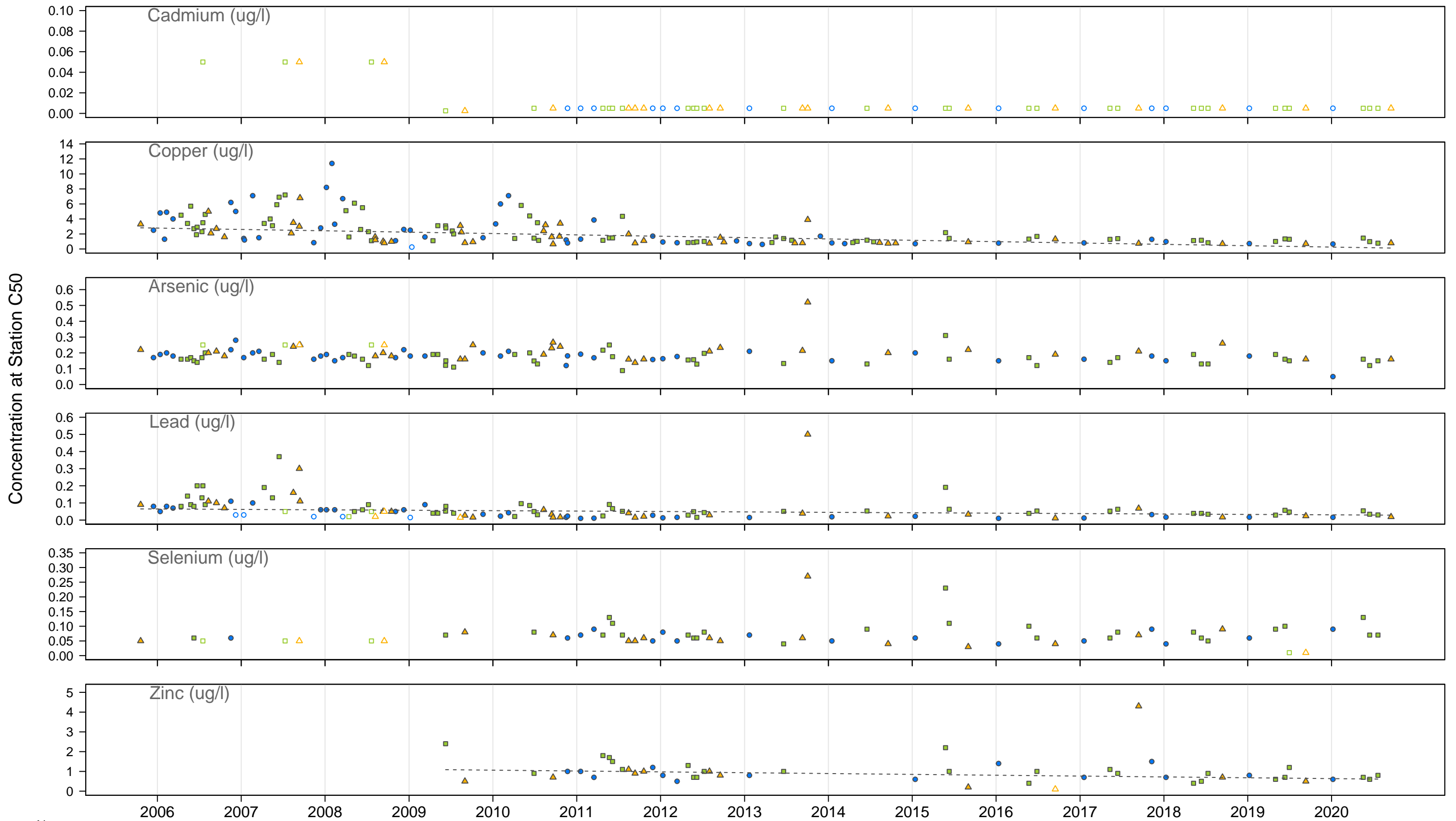


Figure C1-12
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

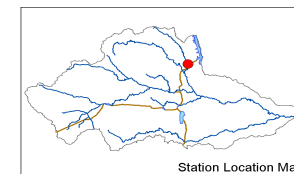
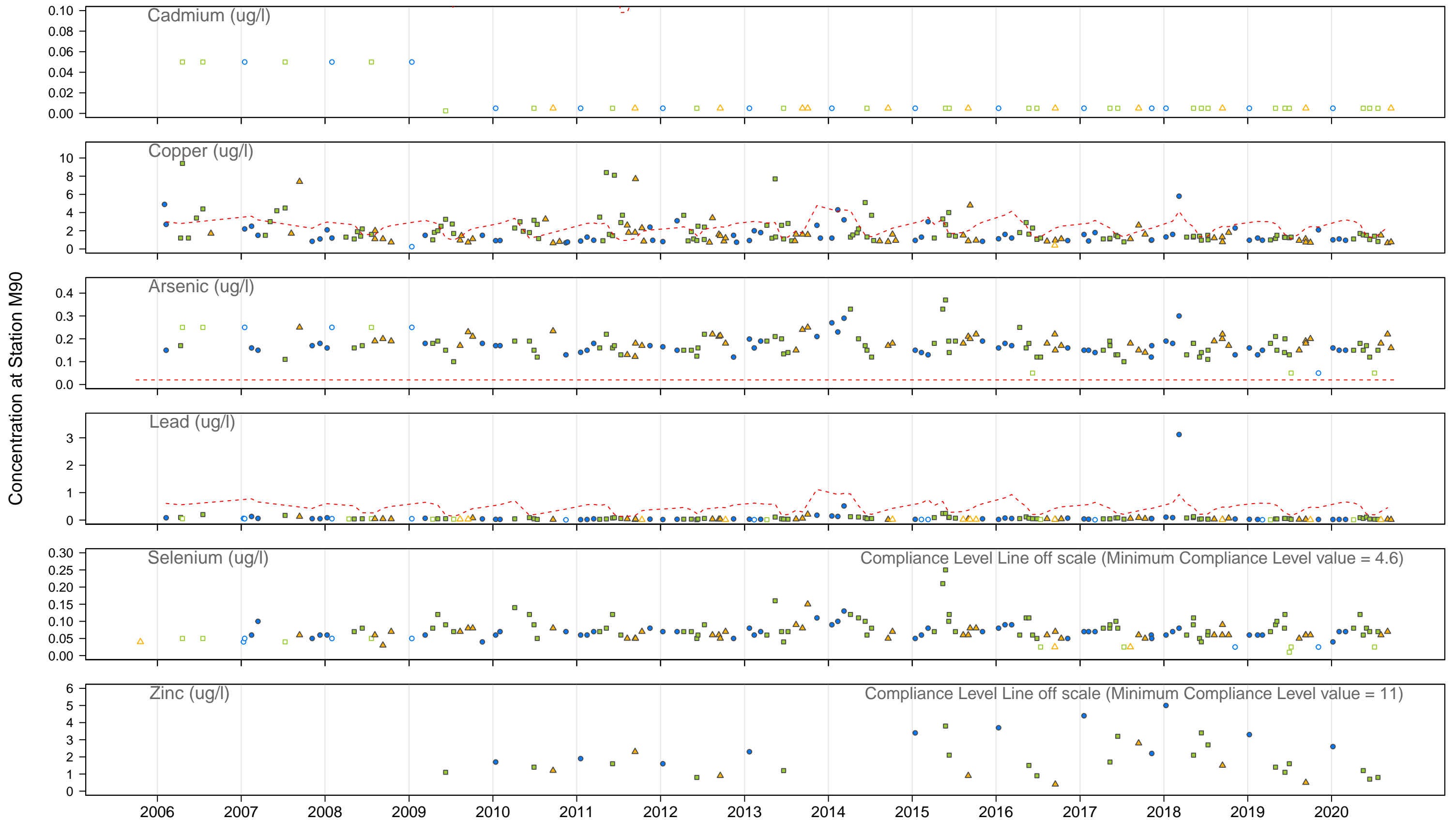


Figure C1-13
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

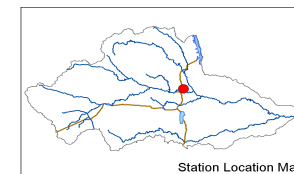
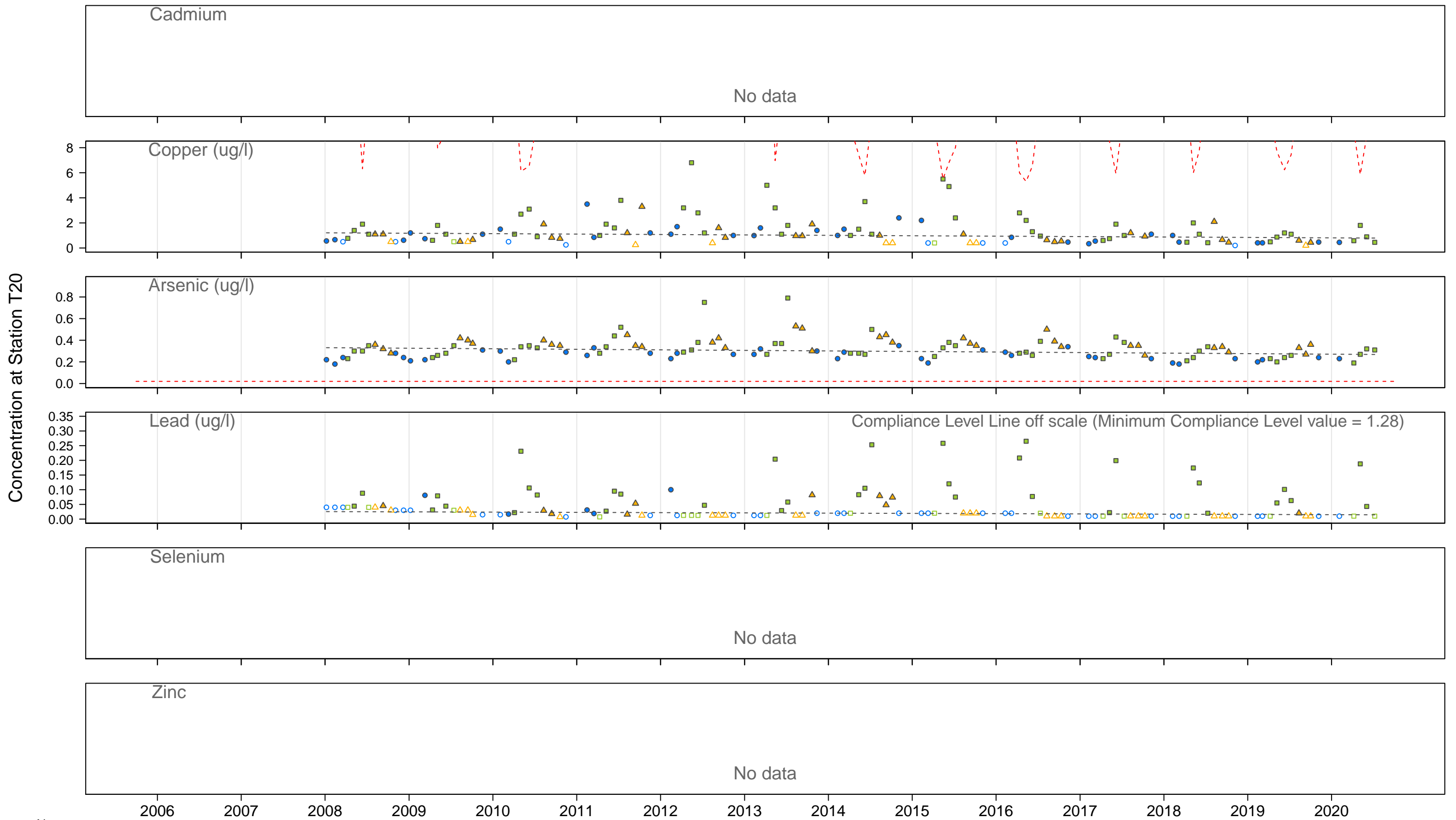


Figure C1-14
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

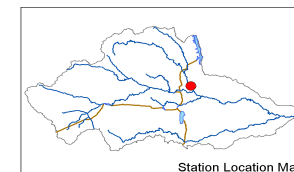
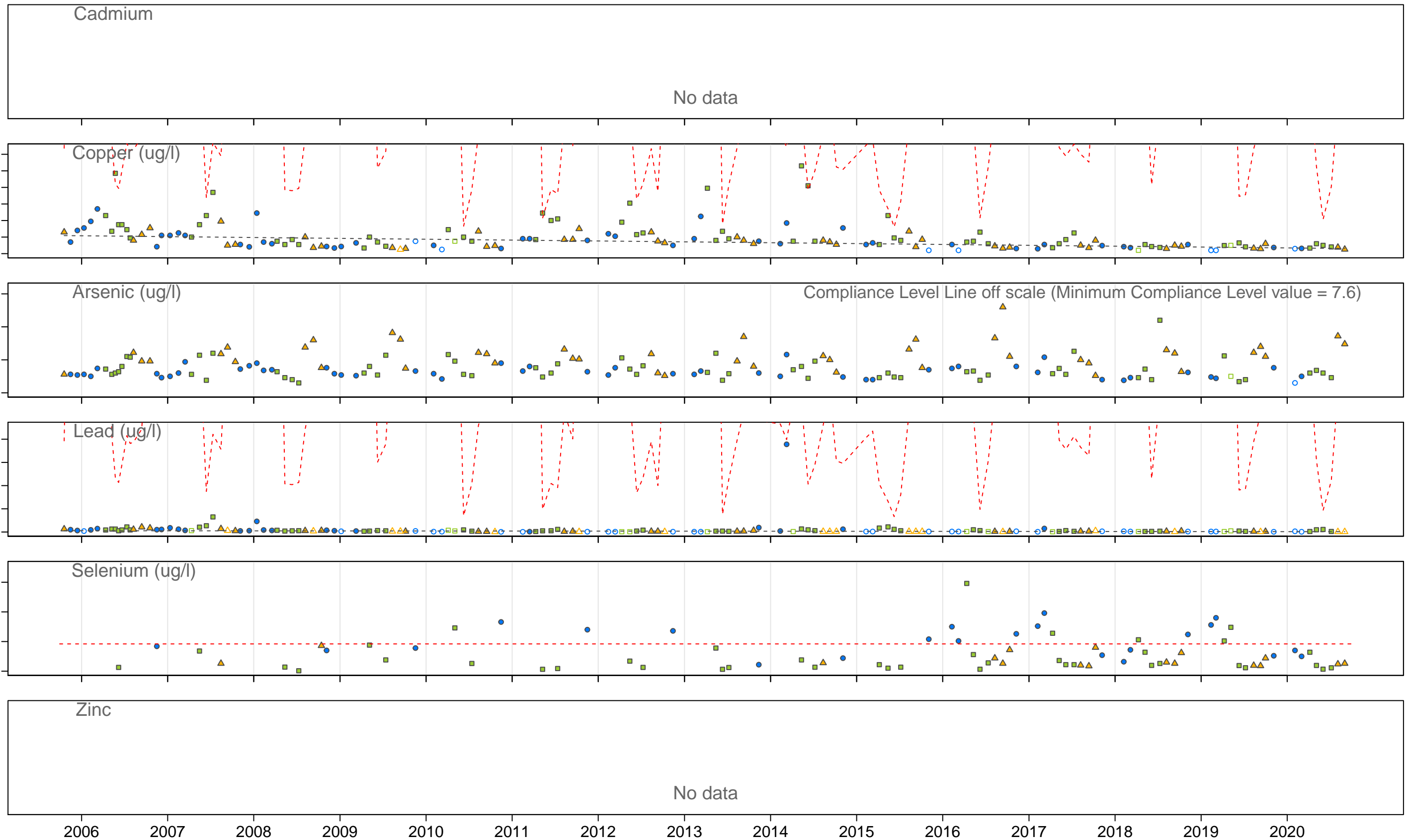


Figure C1-15
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T20

Concentration at Station M130



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

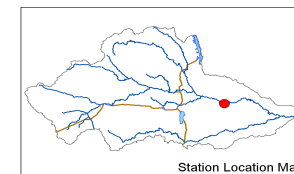
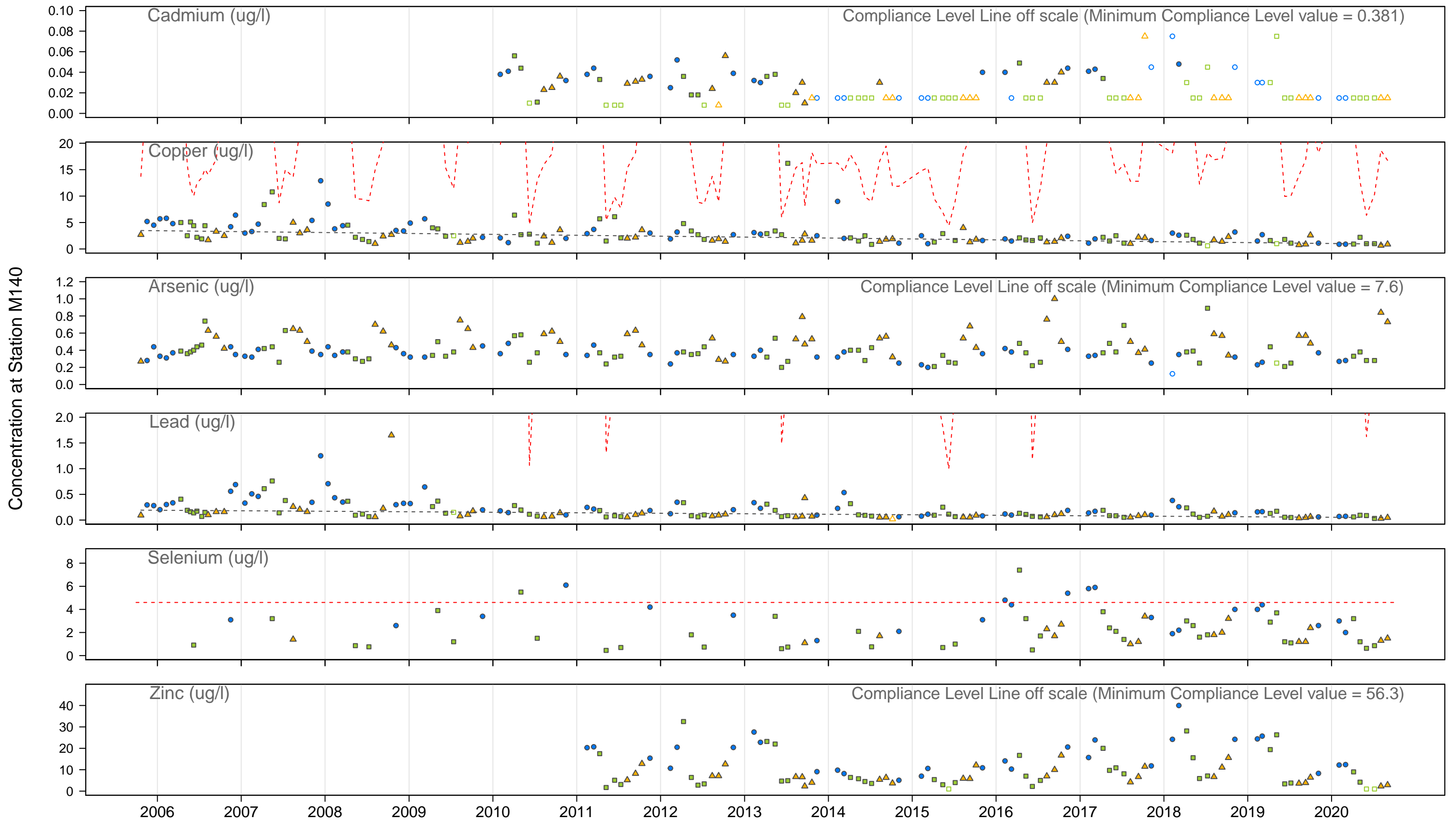


Figure C1-16
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M130



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

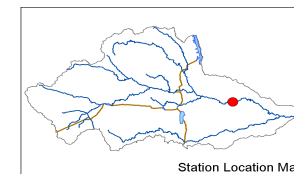
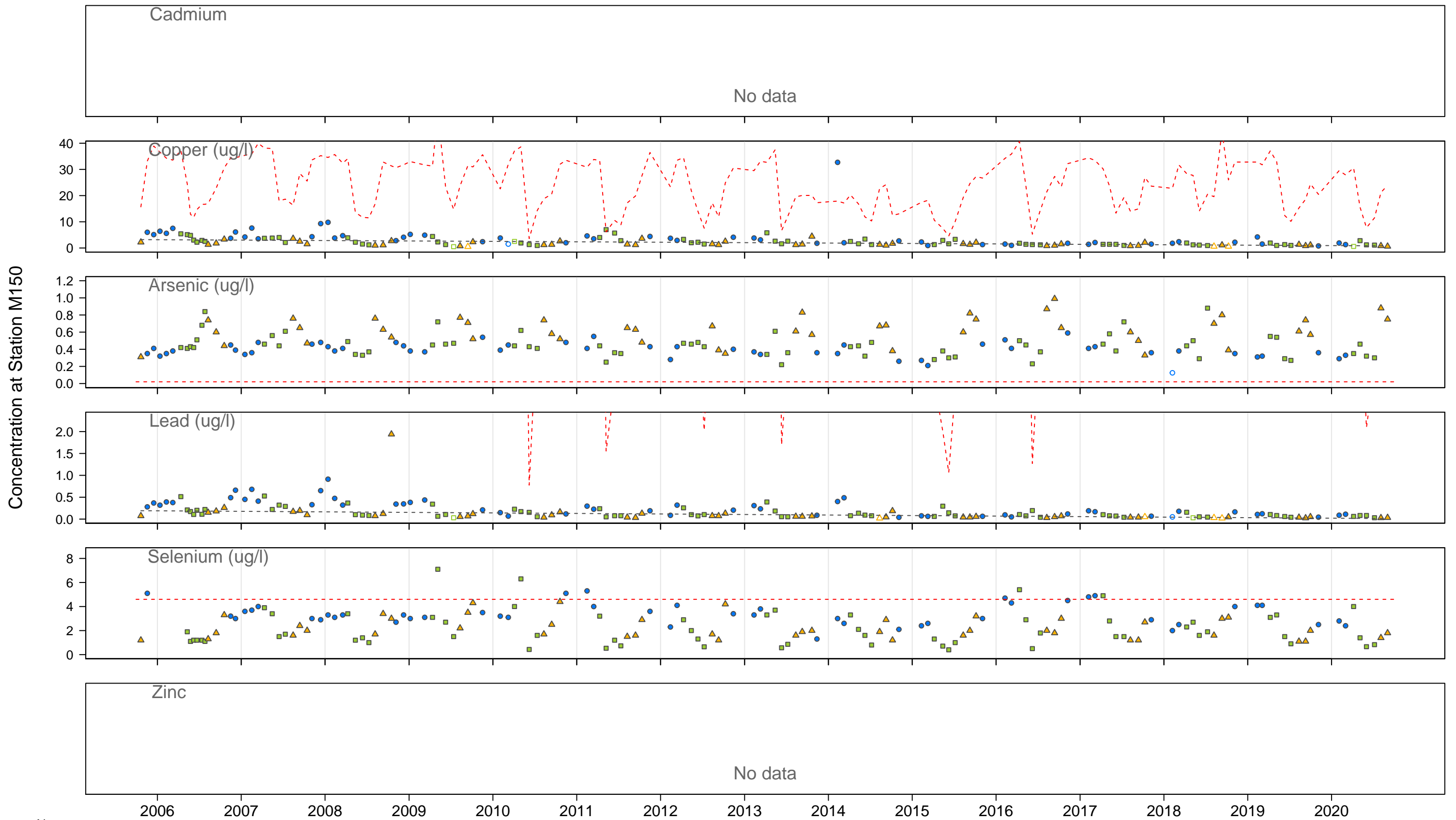


Figure C1-17
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M140



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

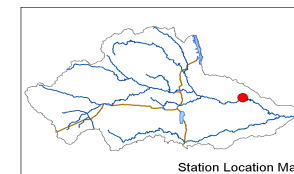
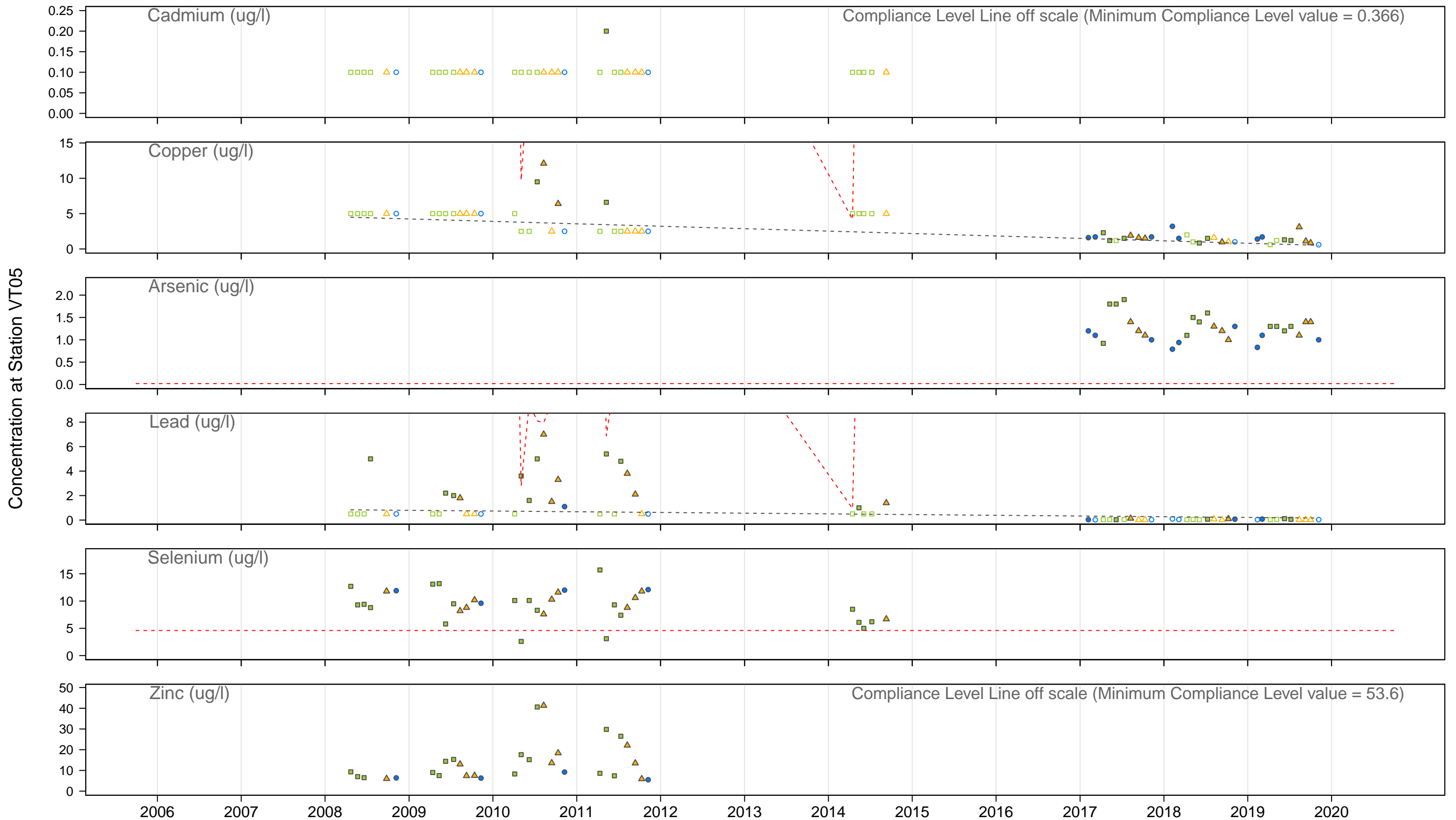


Figure C1-18
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M150



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

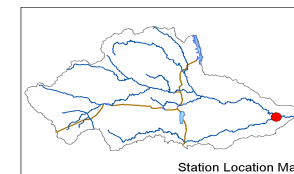
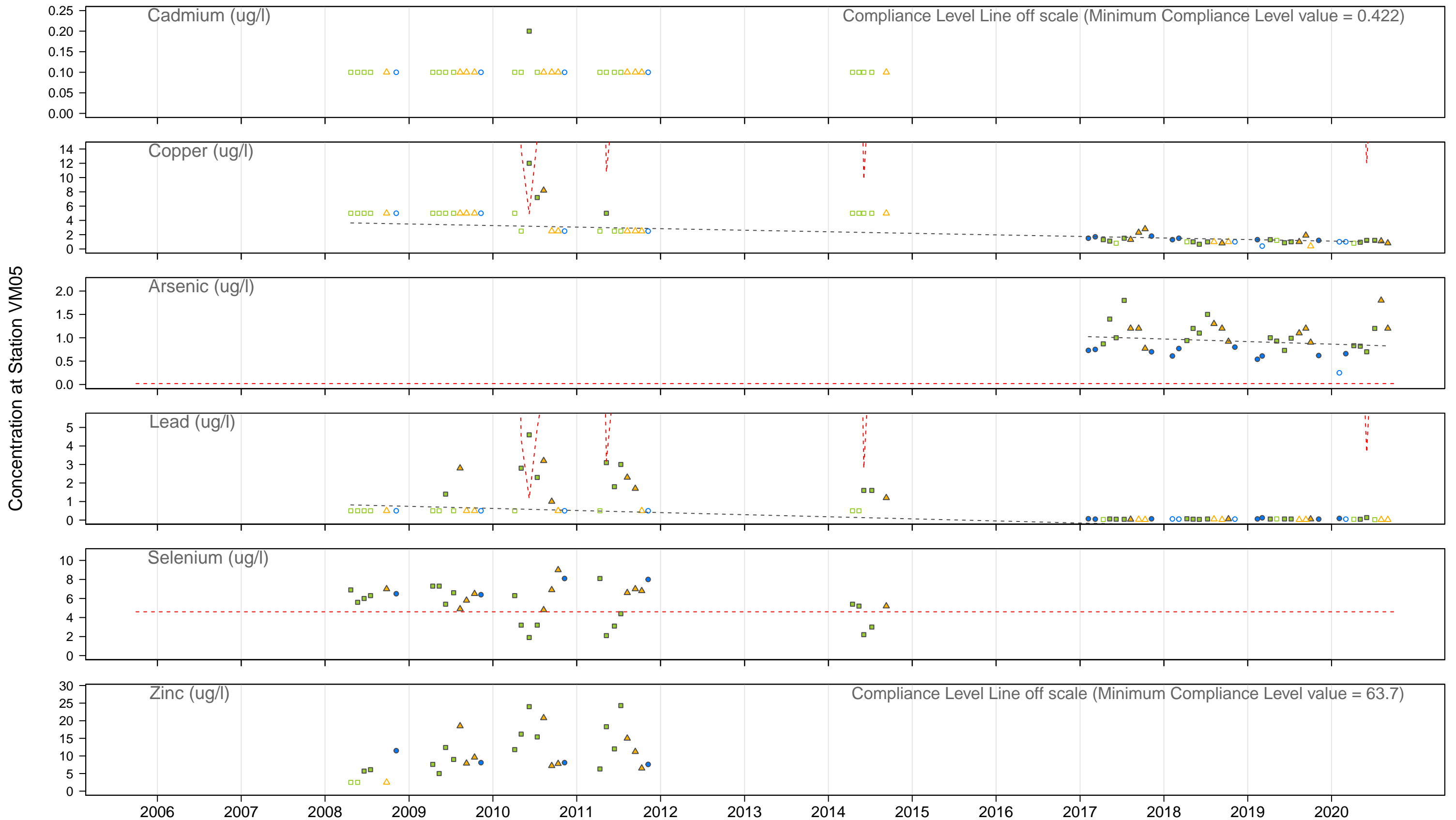


Figure C1-19
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VT05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

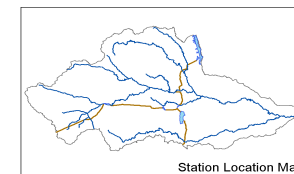
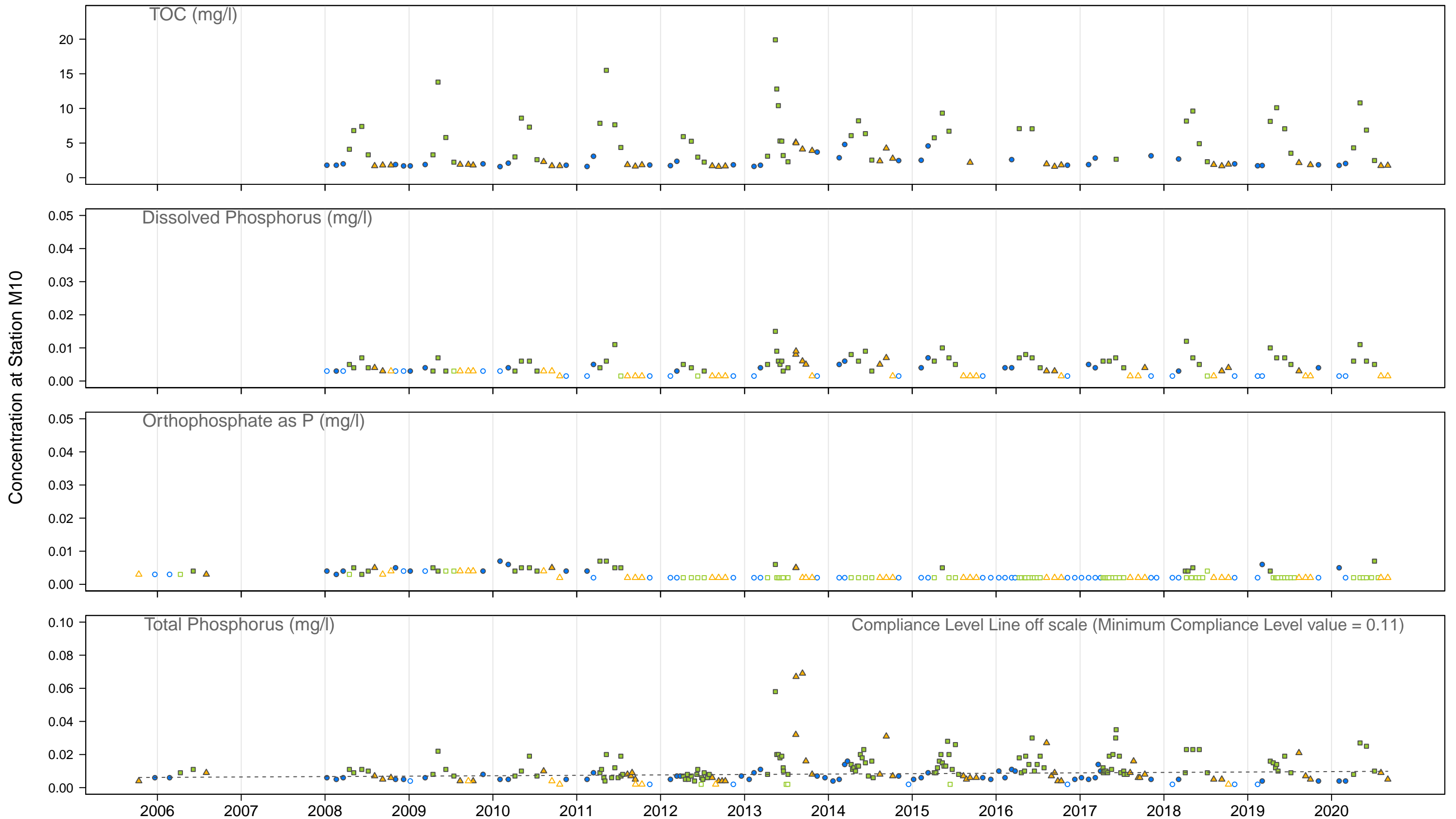


Figure C1-20
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VM05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

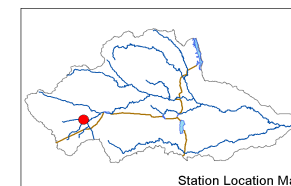
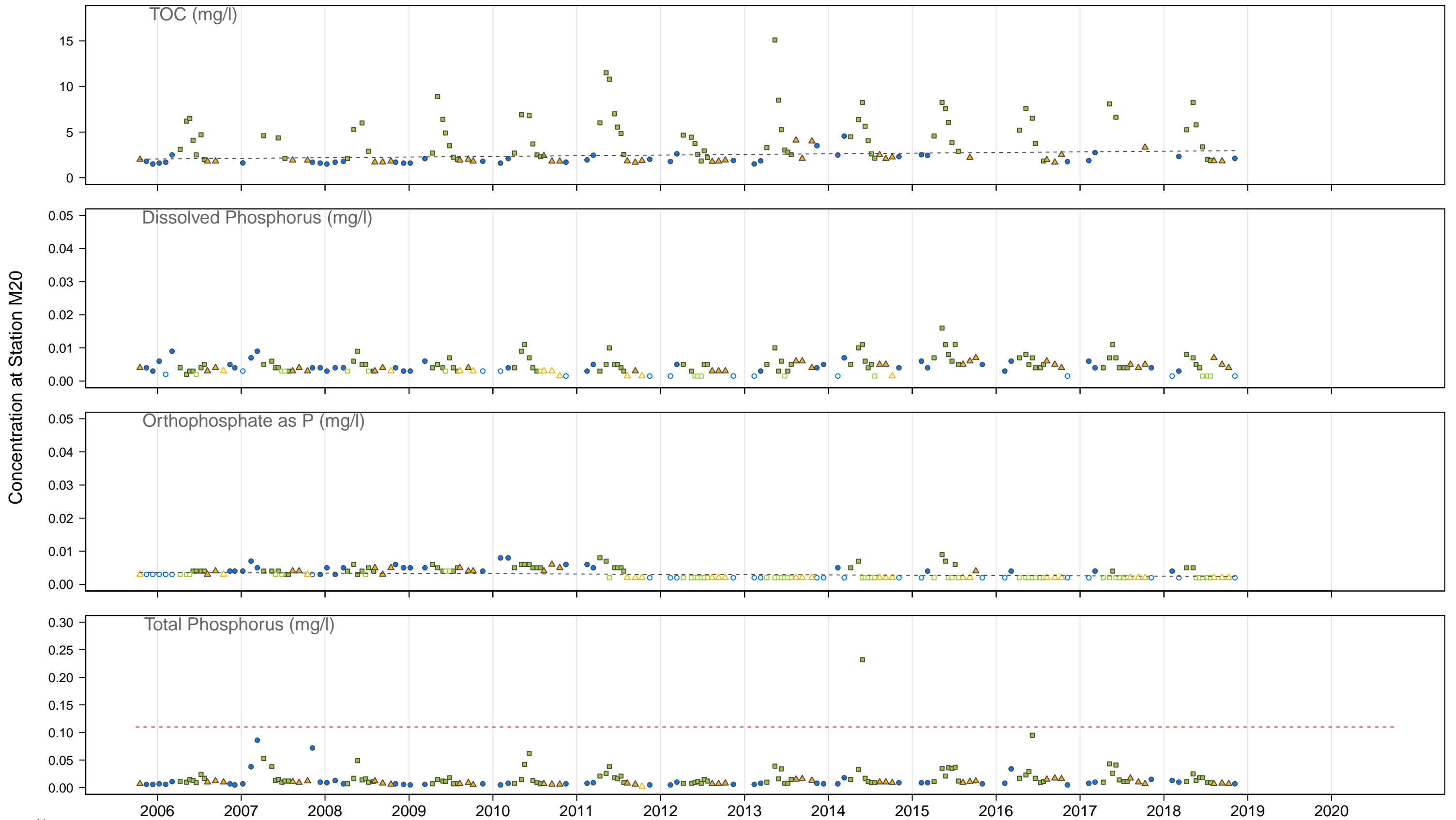


Figure C1-21
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

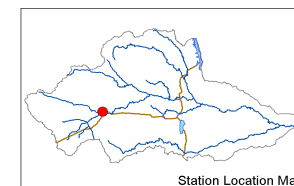
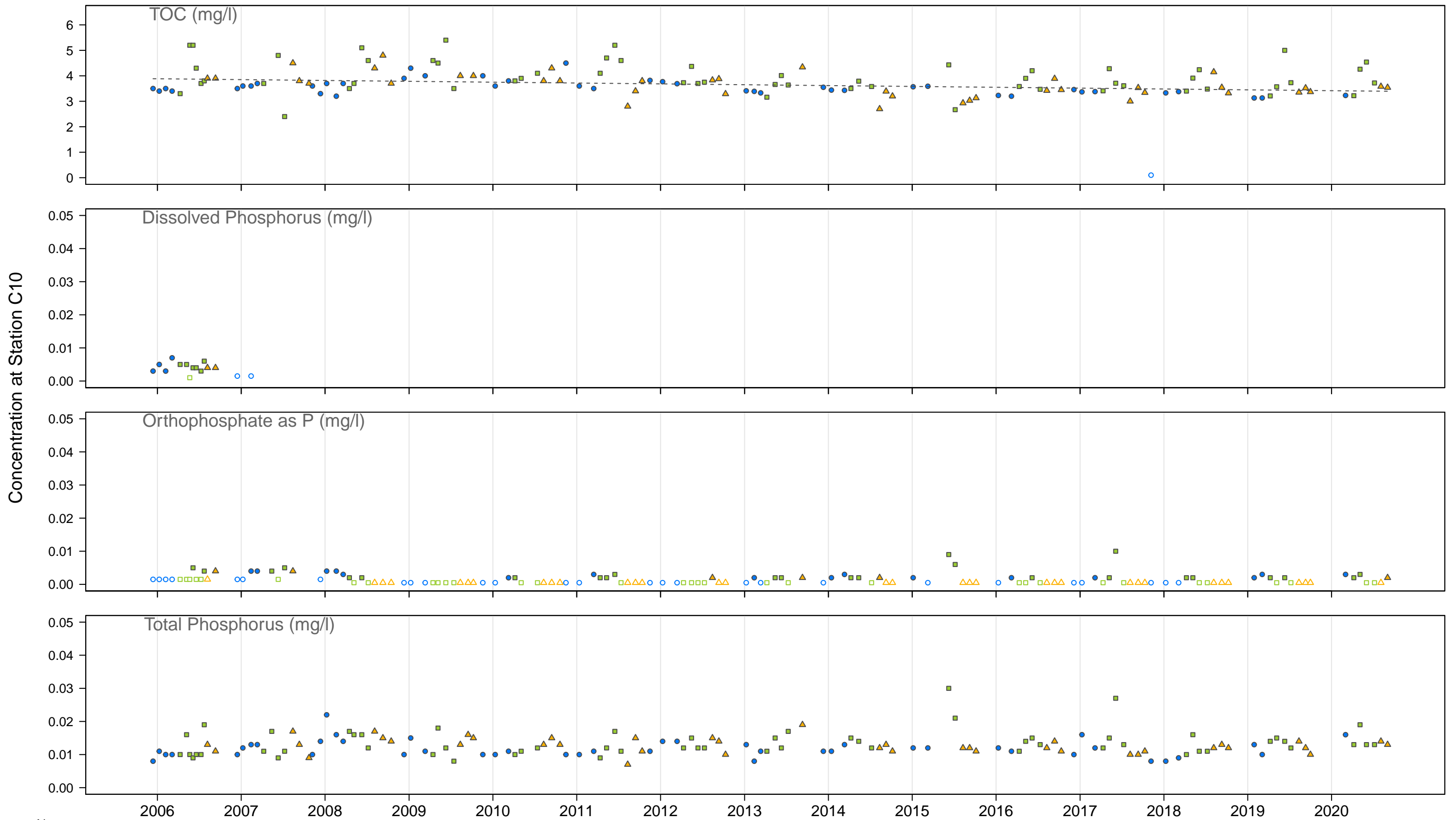


Figure C1-22
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

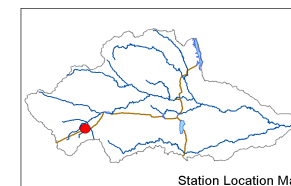
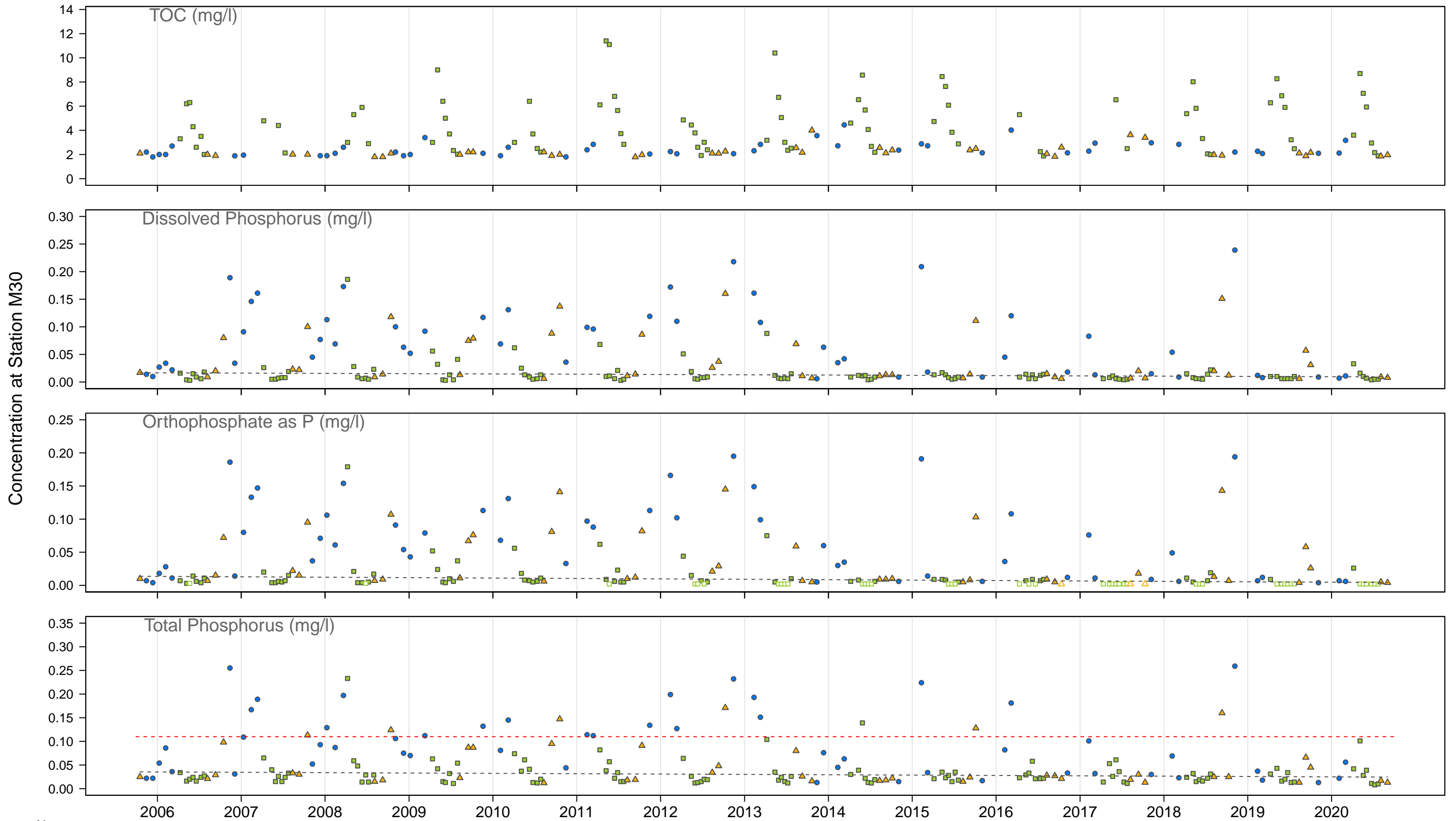


Figure C1-23
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

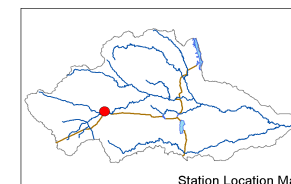
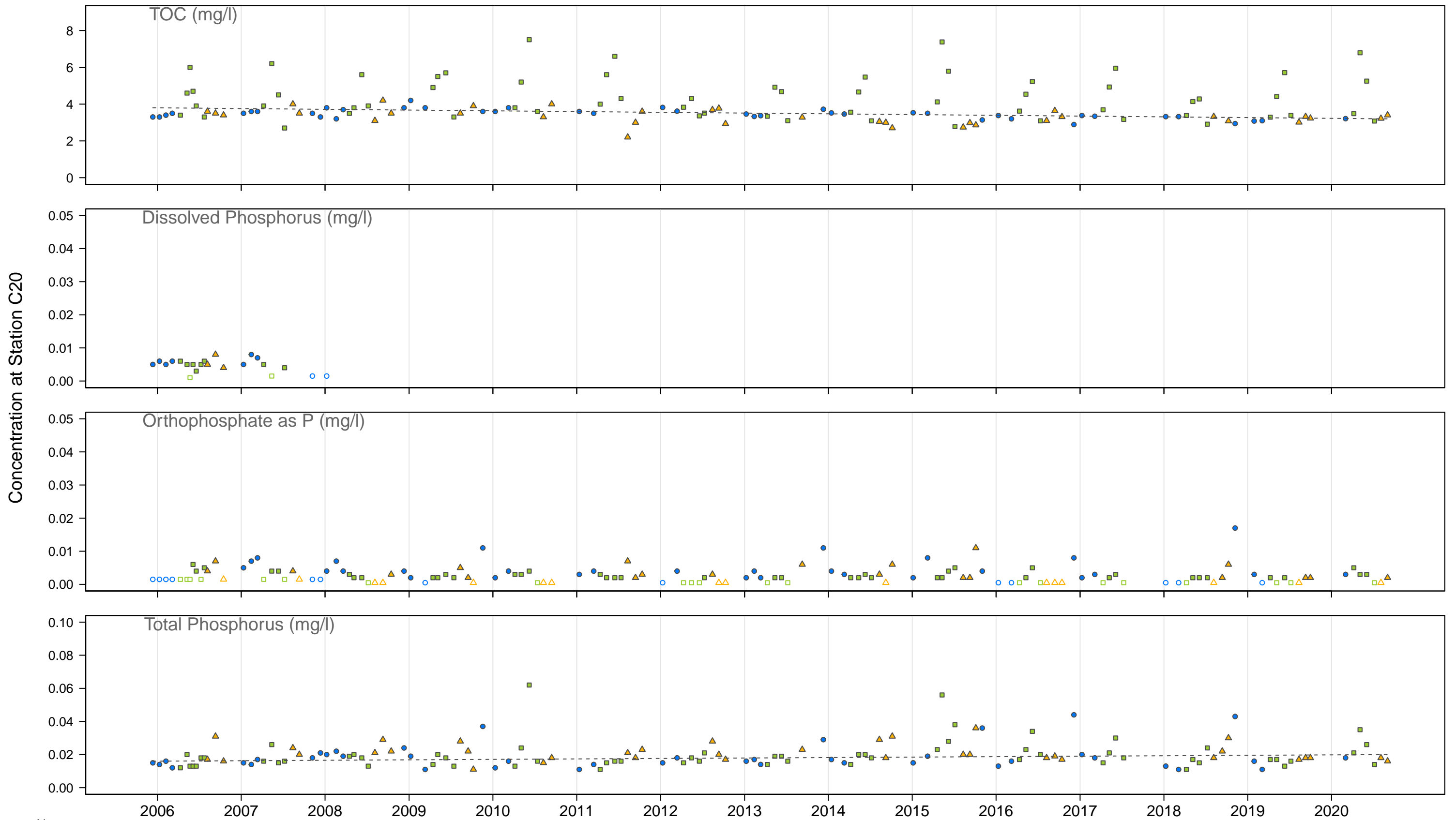


Figure C1-24
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

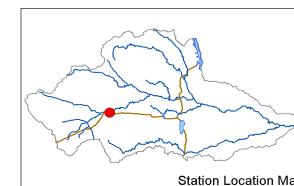
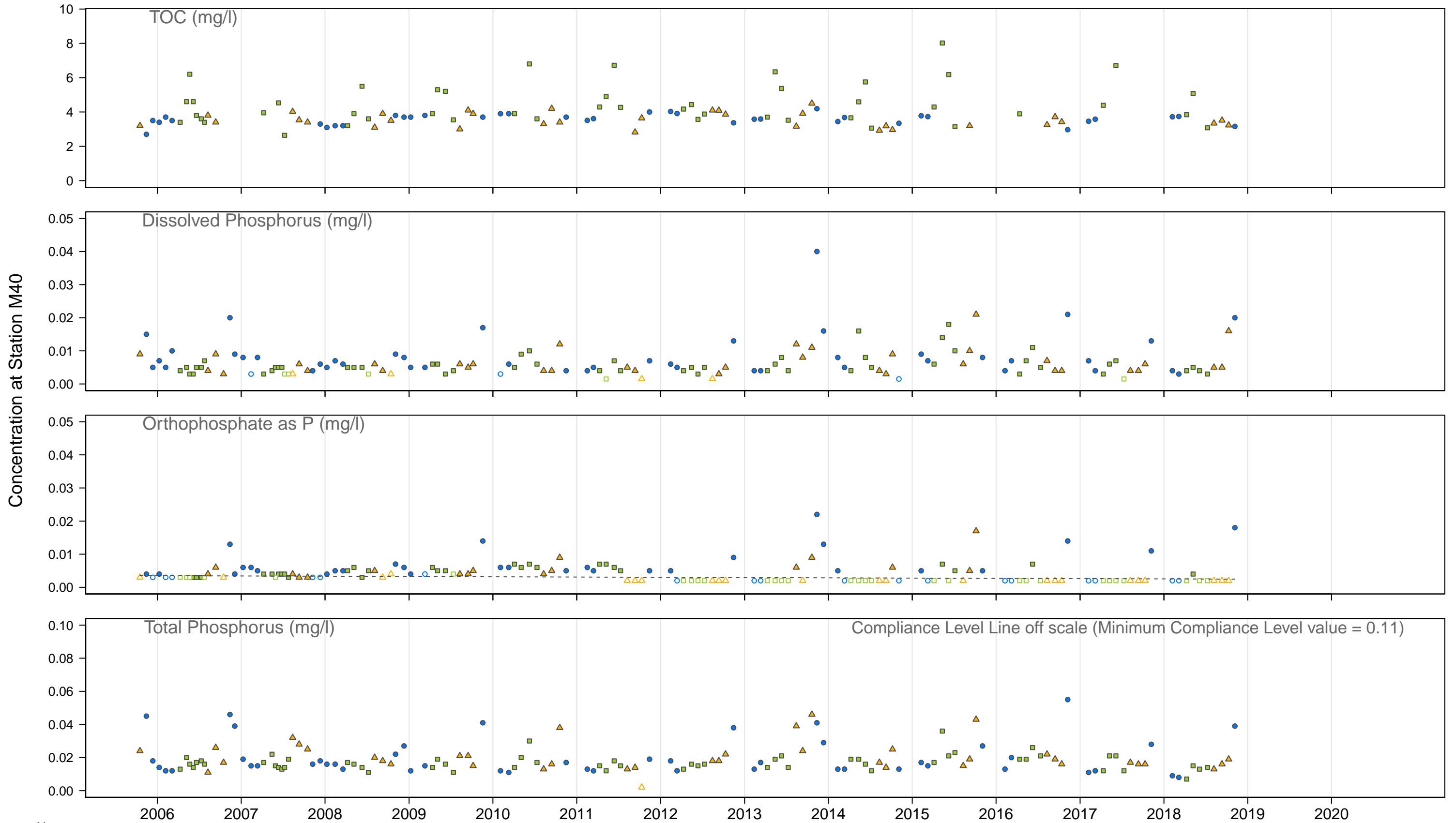


Figure C1-25
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C20



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

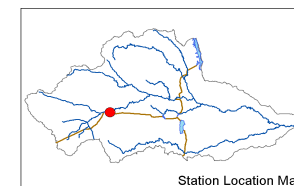
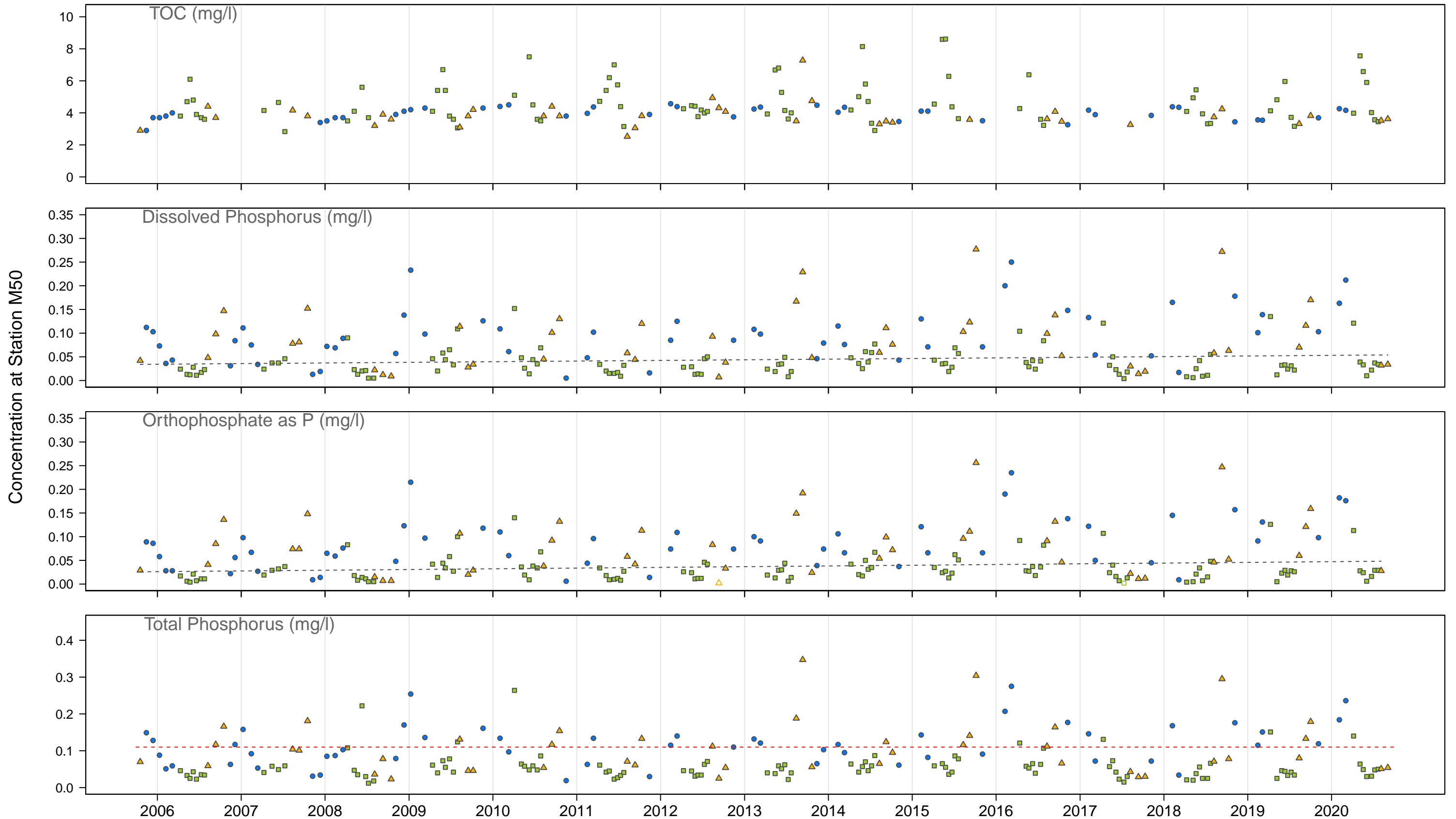


Figure C1–26
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

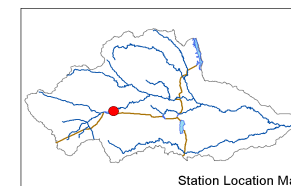
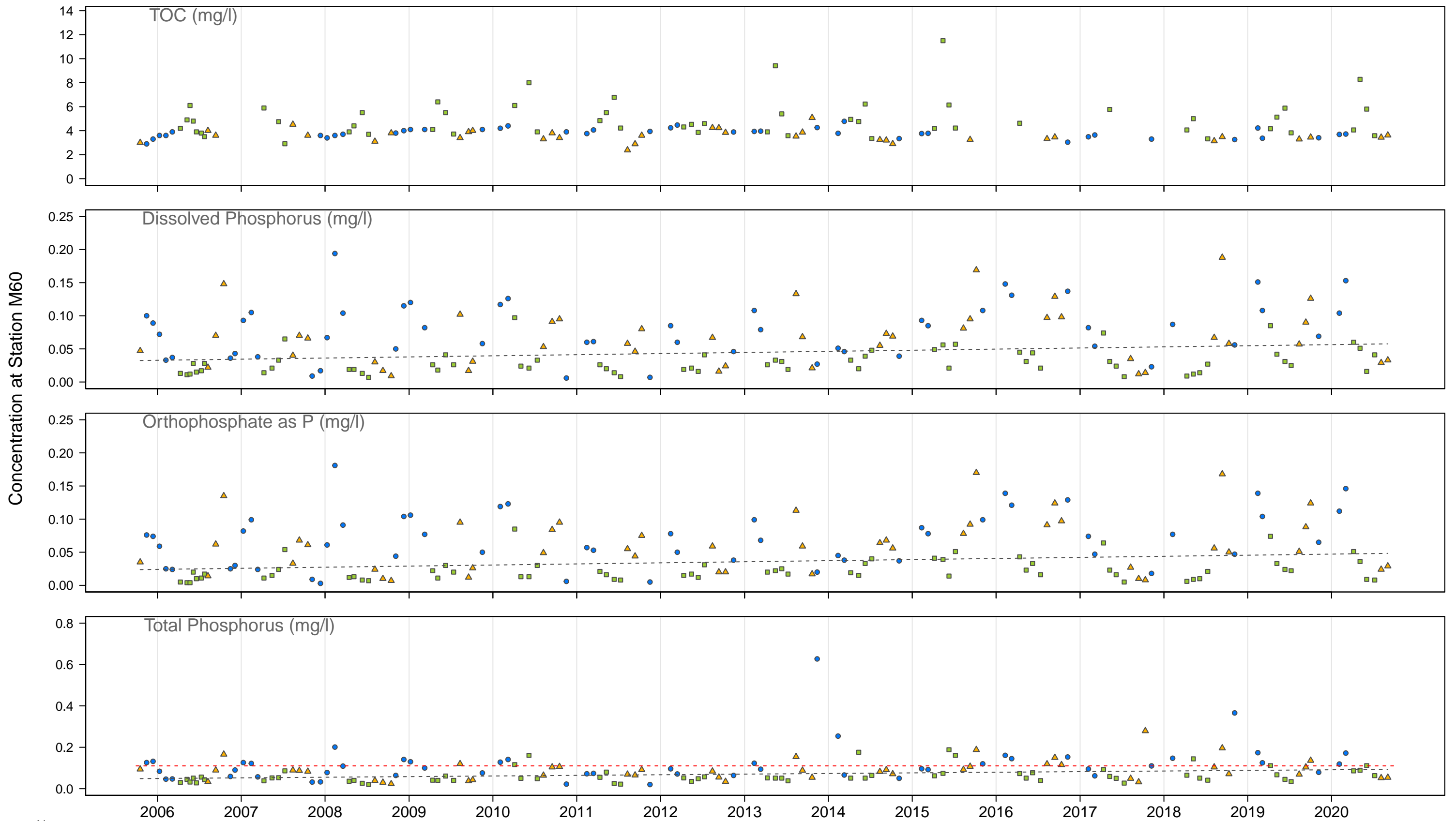


Figure C1-27
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

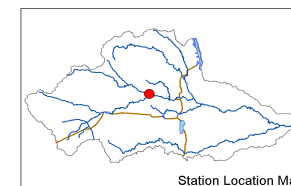
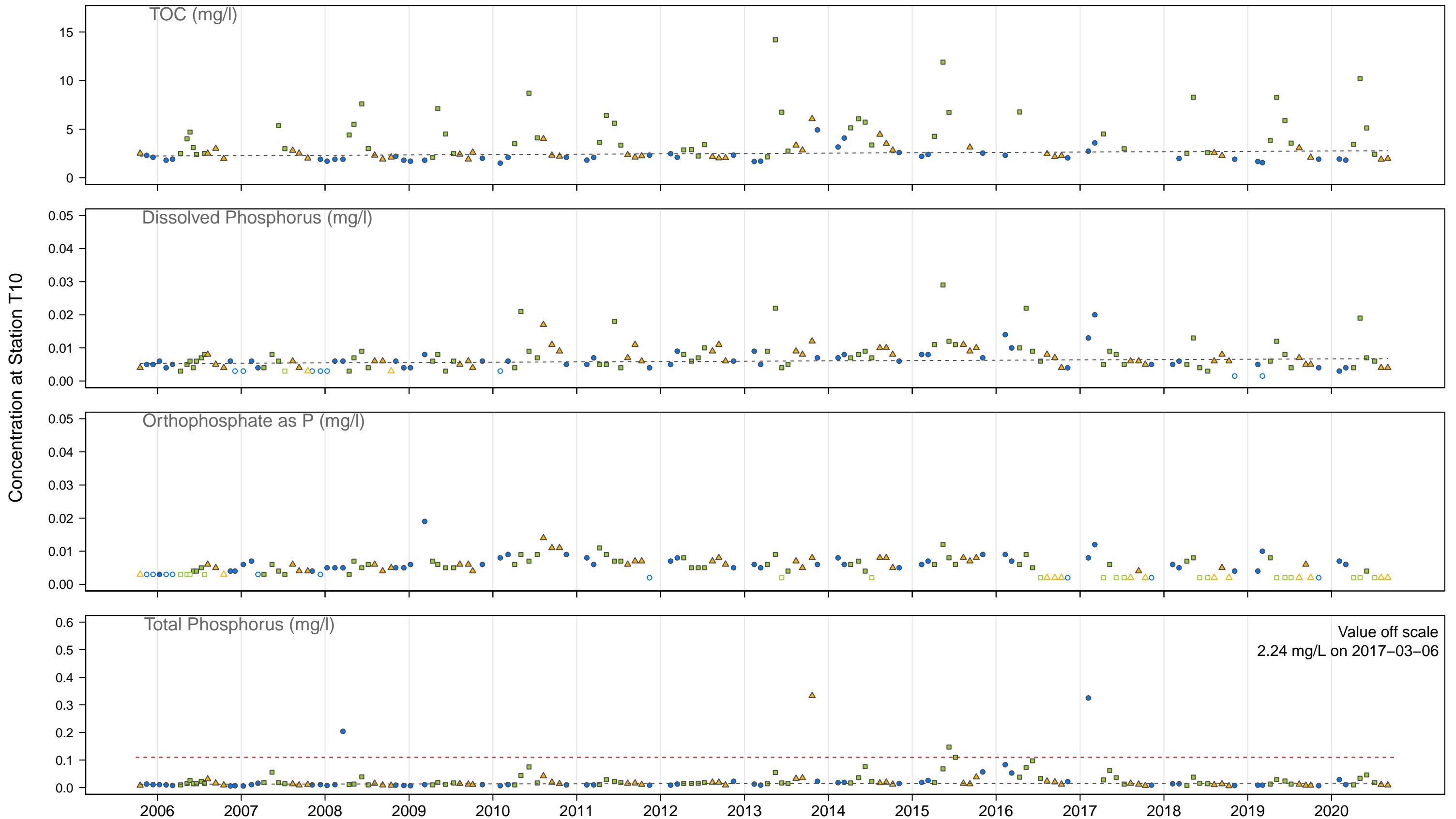


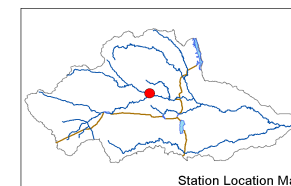
Figure C1-28
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M60



Notes:

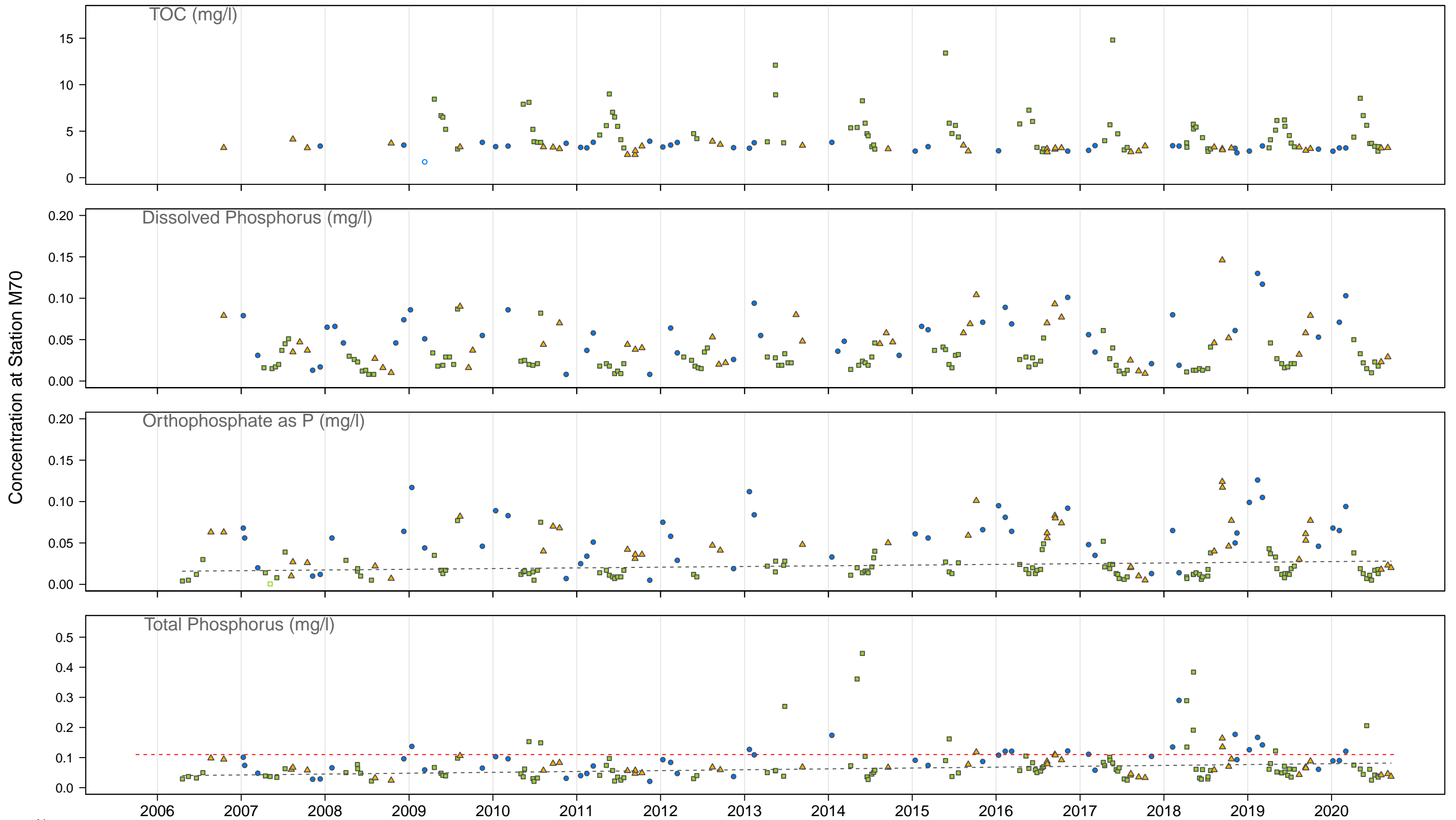
- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level



Value off scale
2.24 mg/L on 2017-03-06

Figure C1-29
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

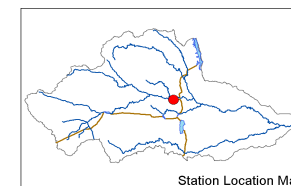
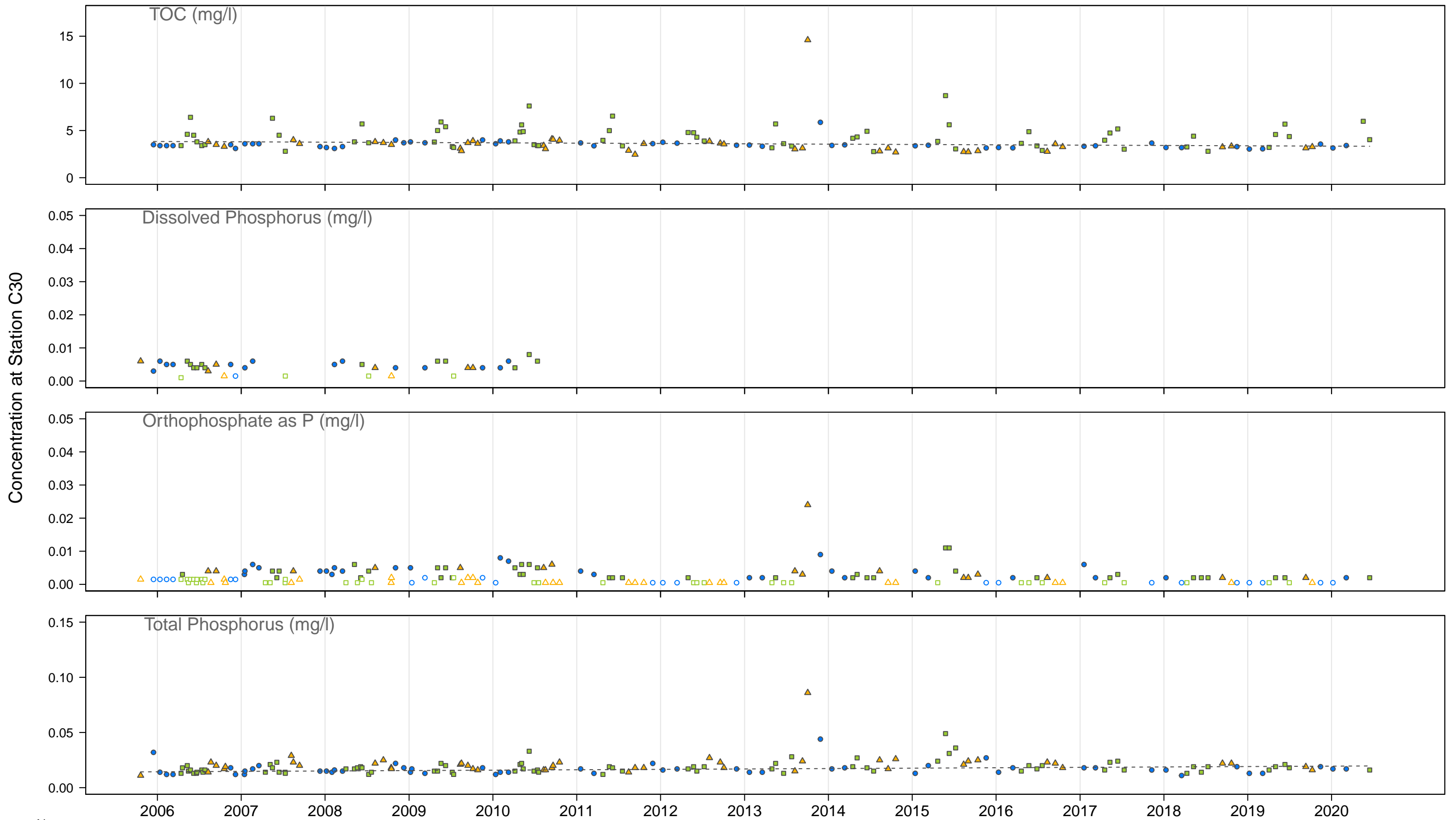


Figure C1-30
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M70



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

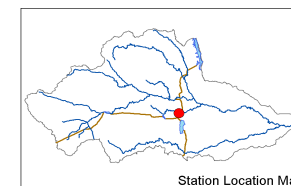
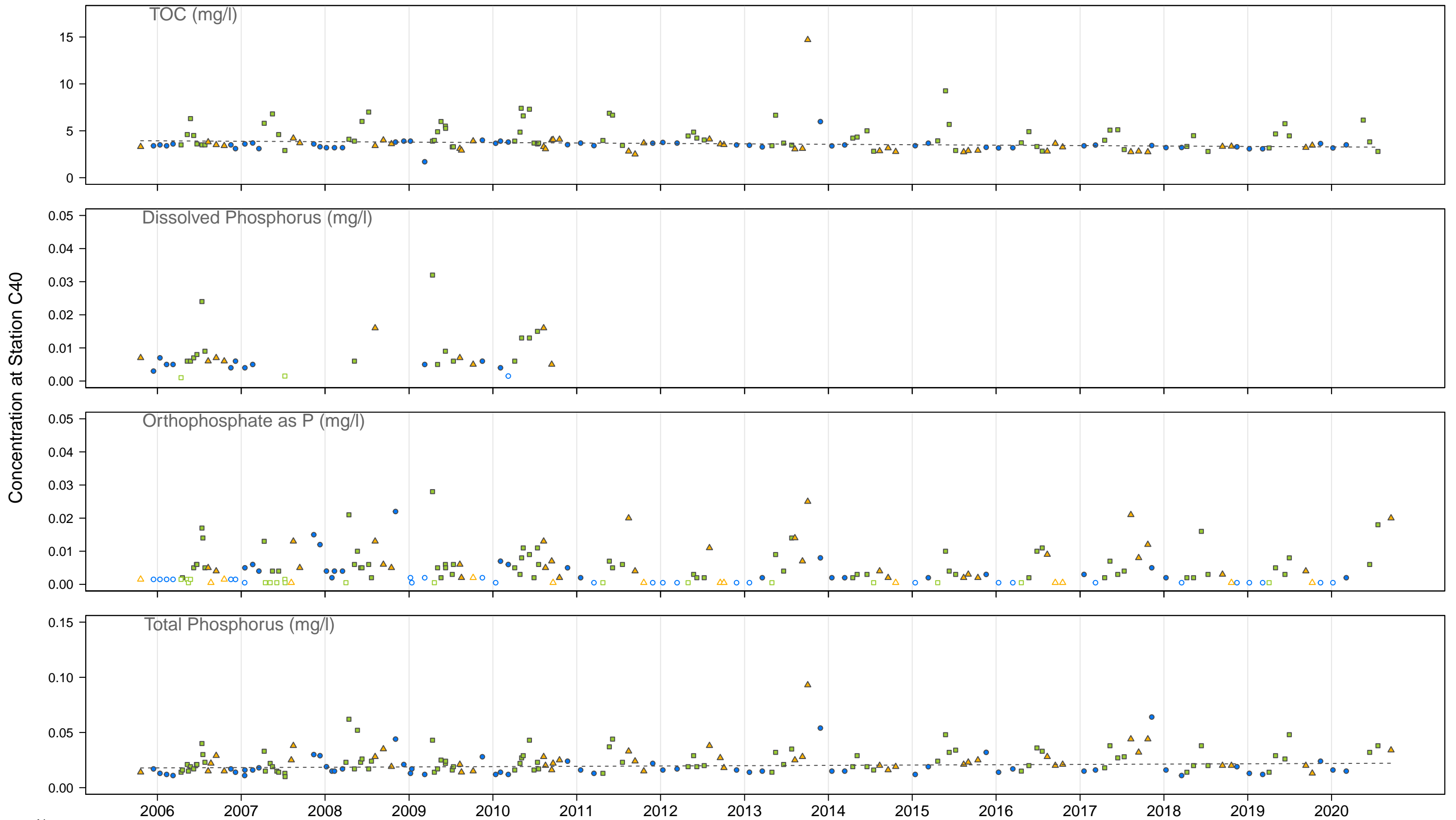


Figure C1-31
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

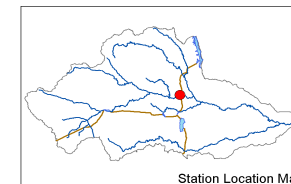
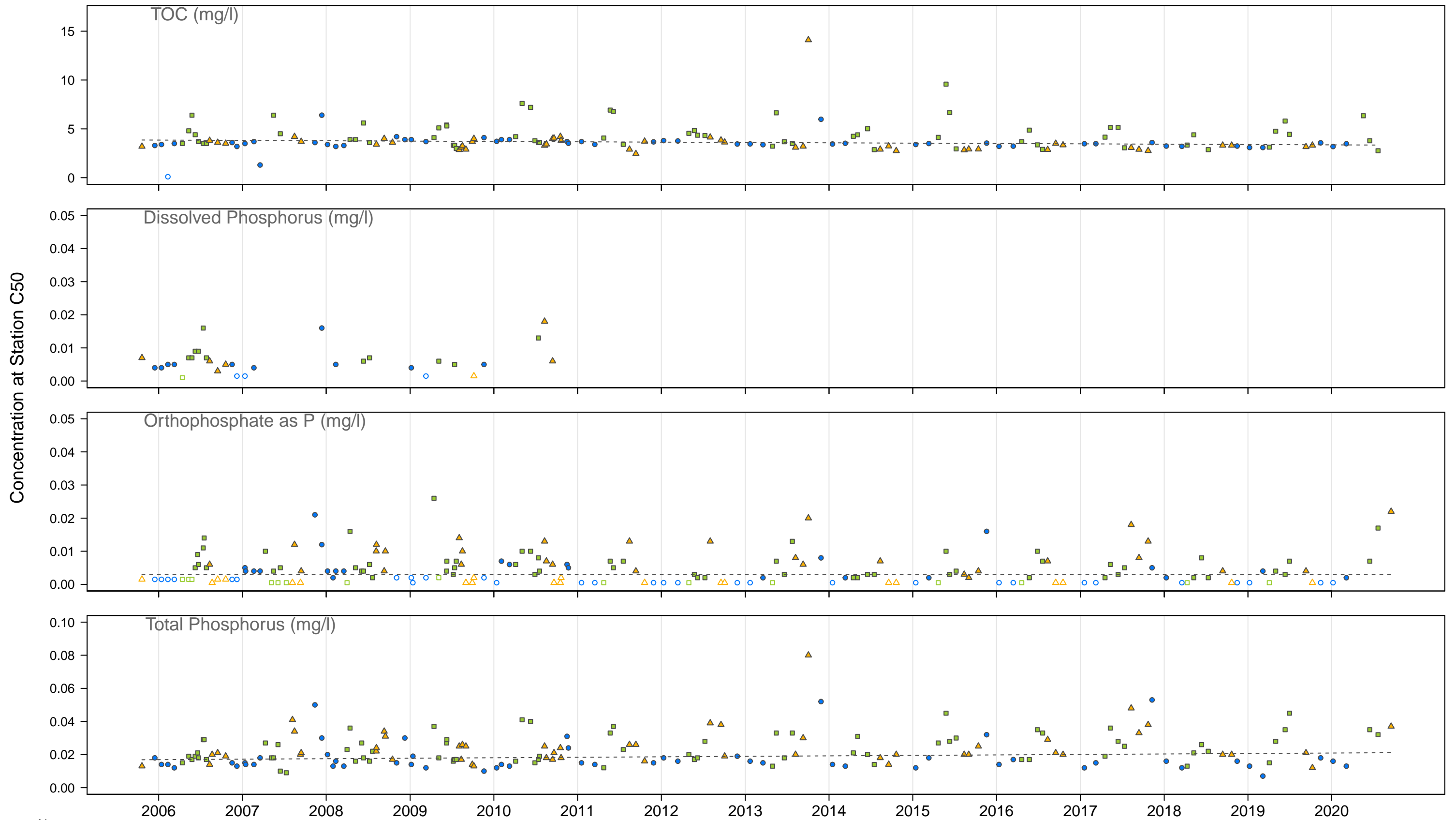


Figure C1-32
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

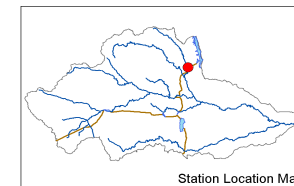
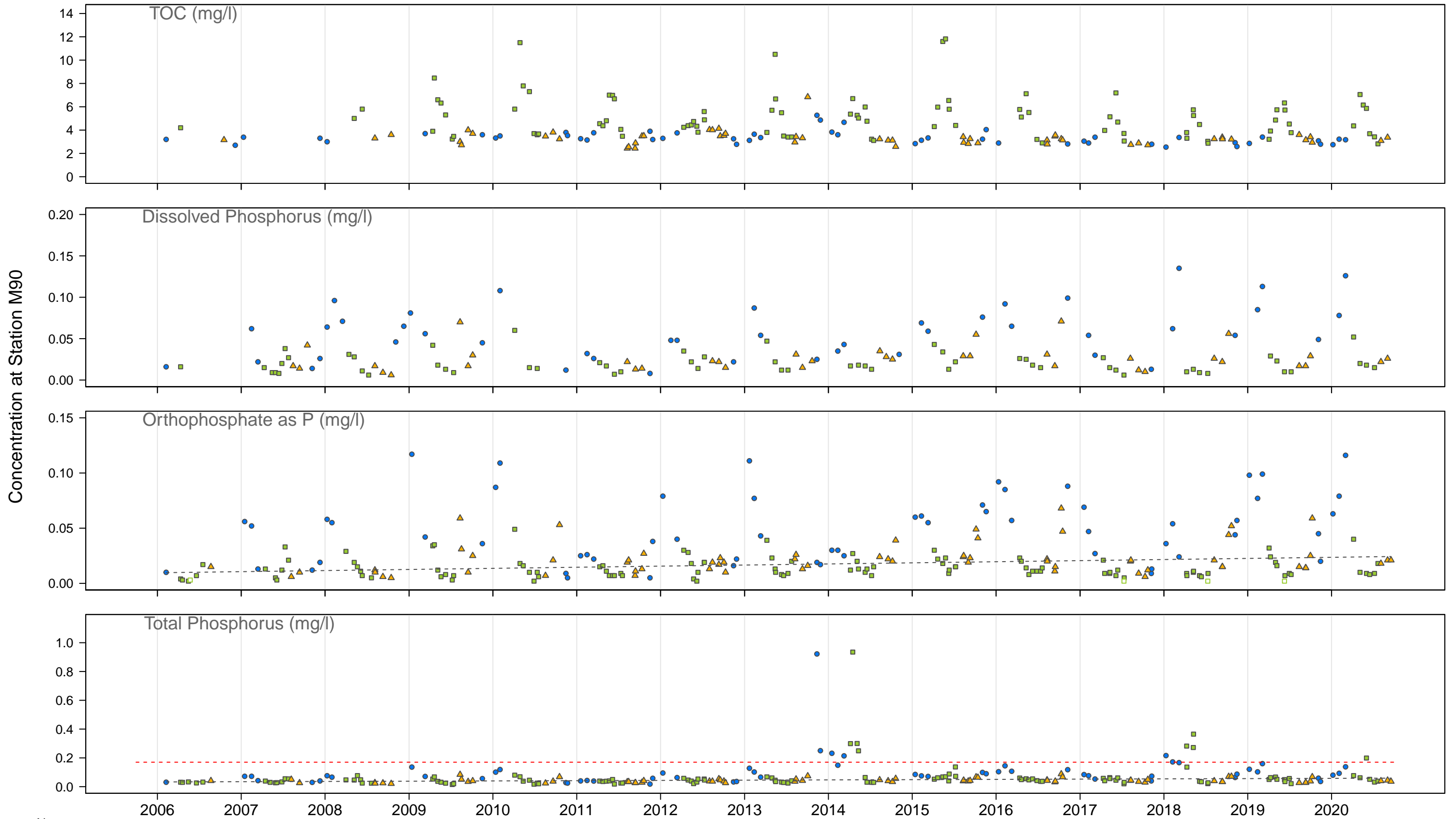


Figure C1-33
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

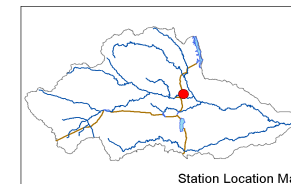
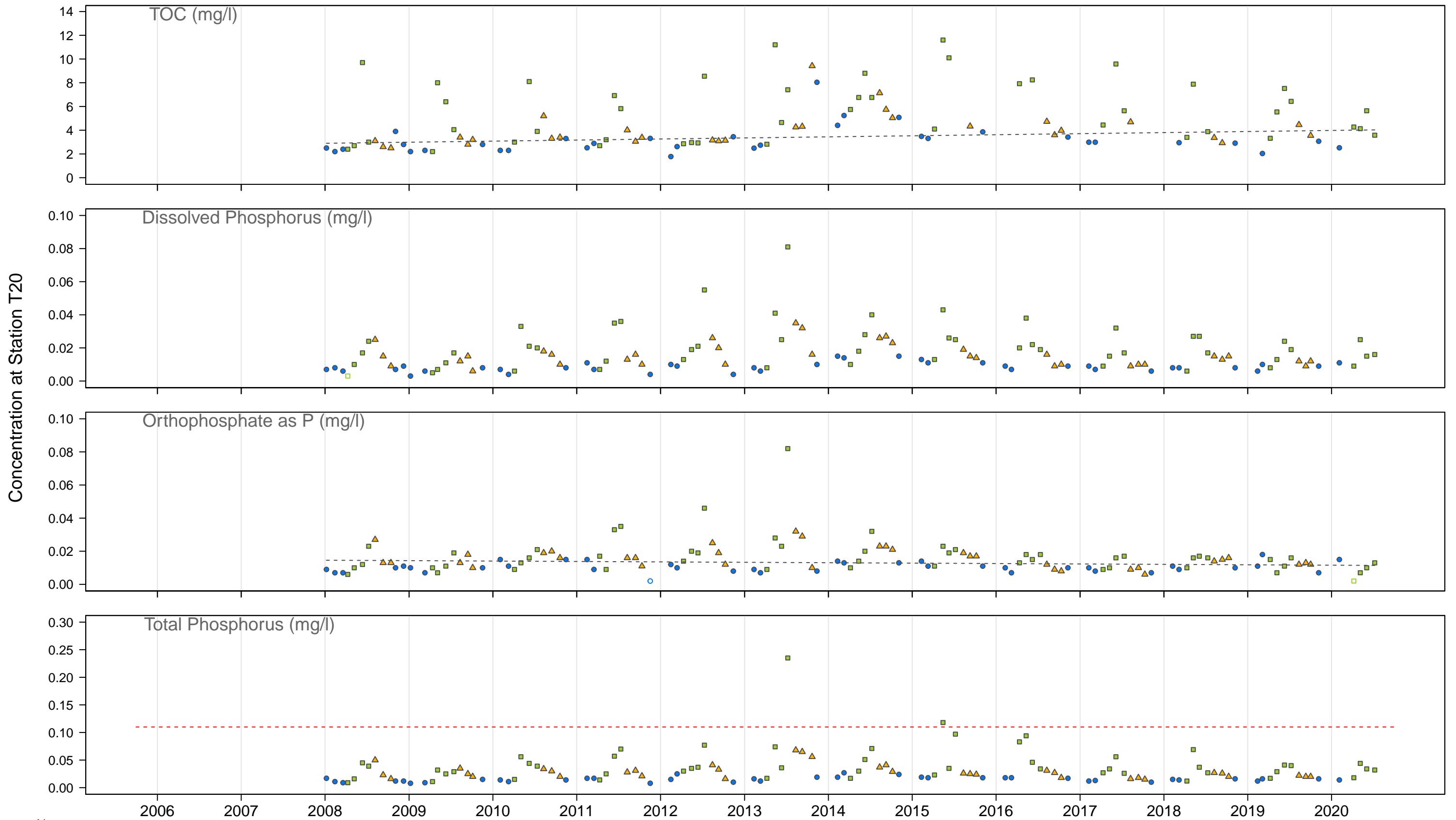


Figure C1-34
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

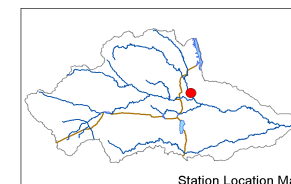
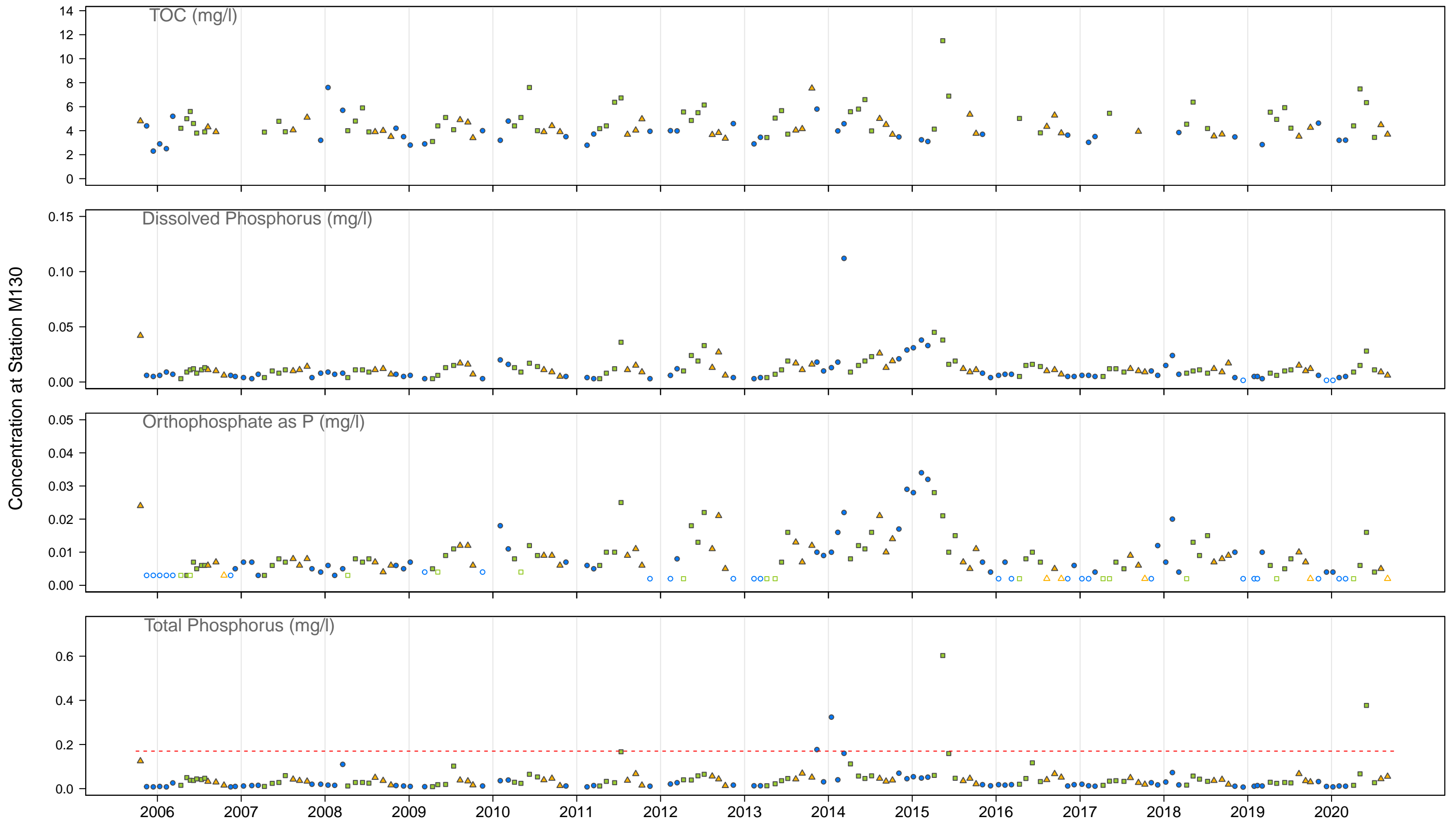


Figure C1-35
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

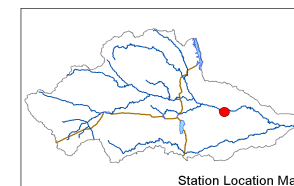
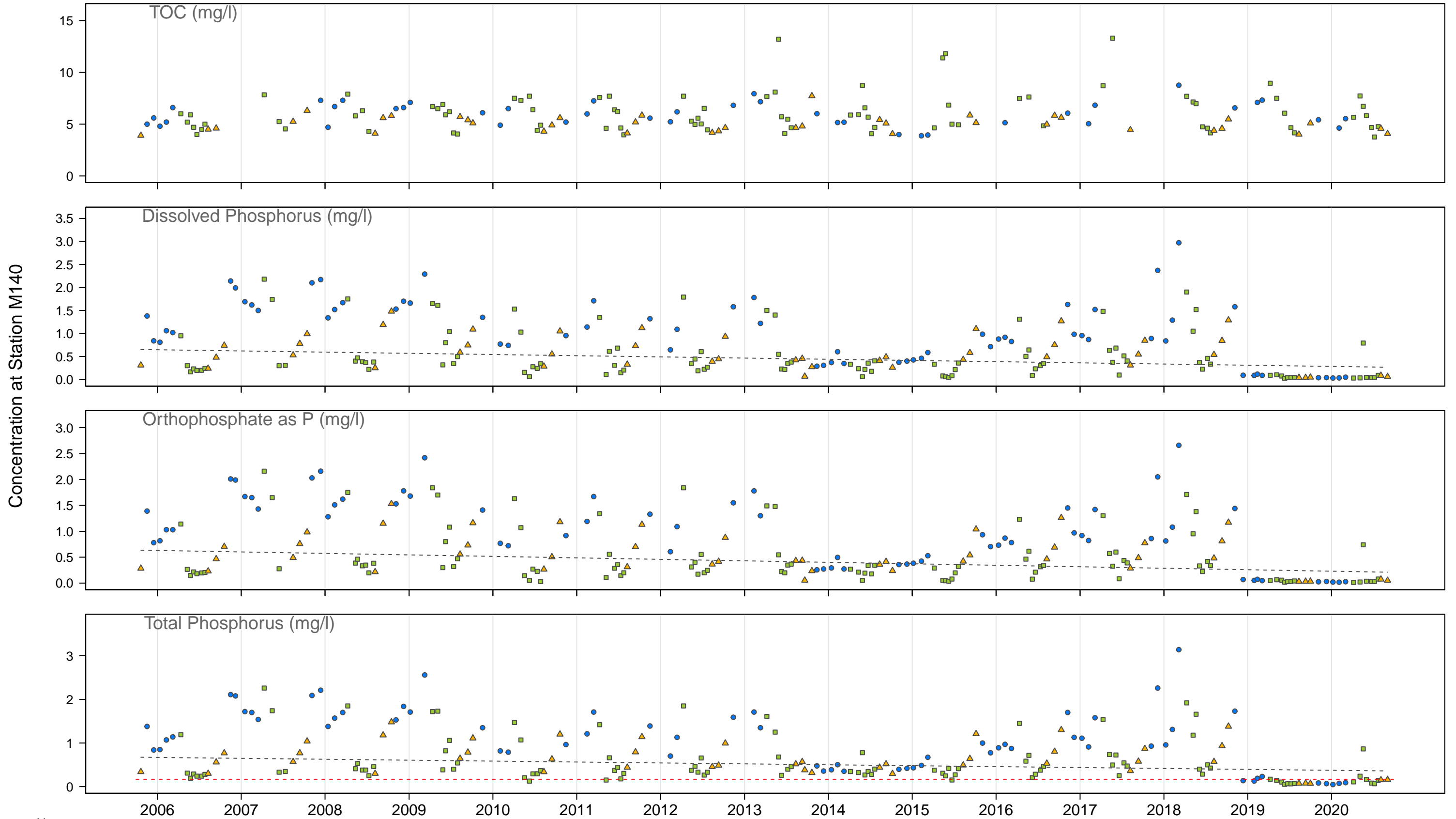


Figure C1-36
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M130



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

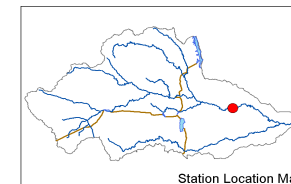
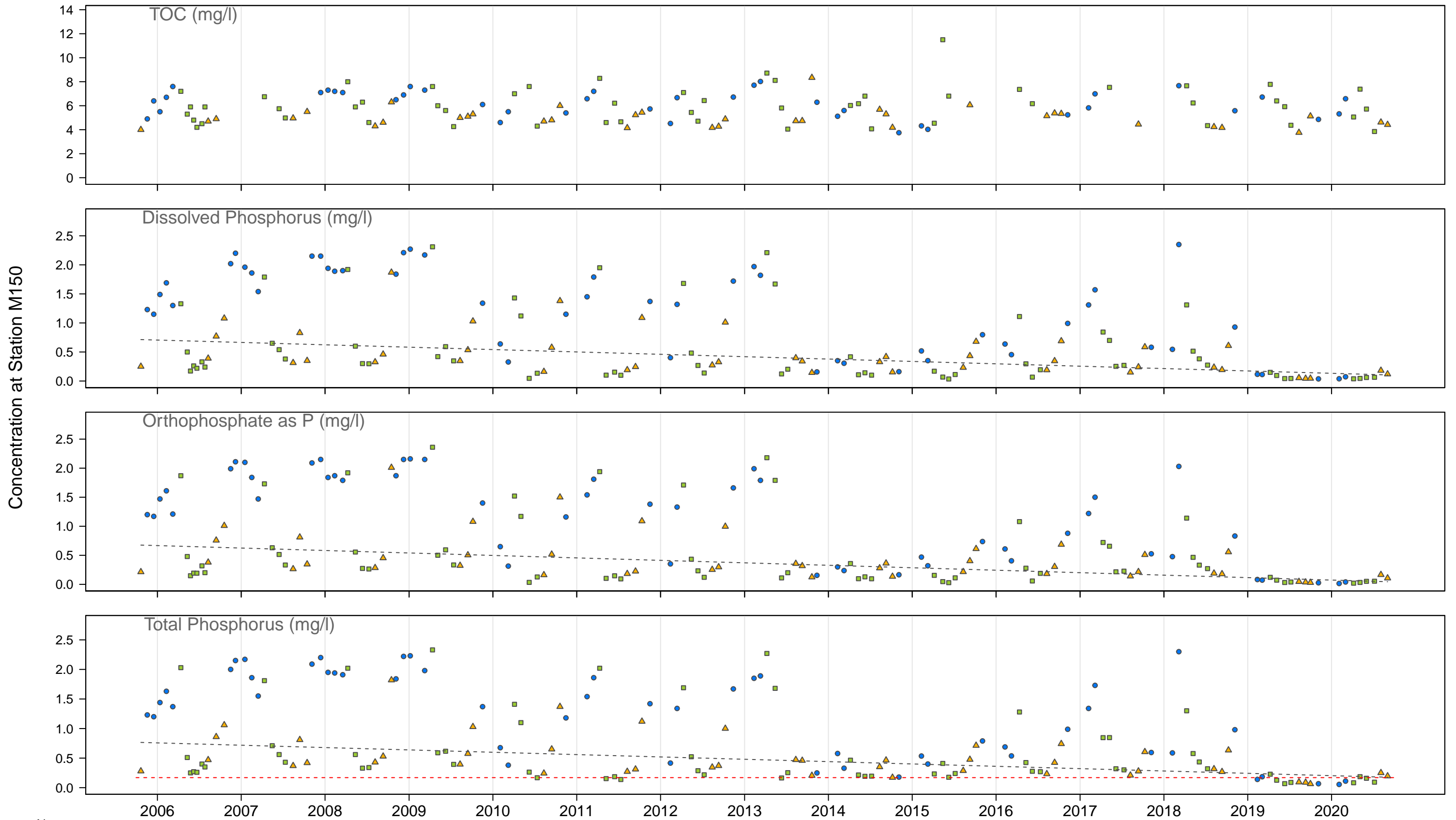


Figure C1-37
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M140



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

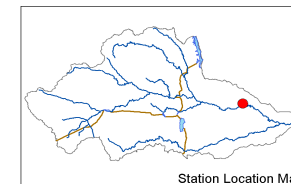
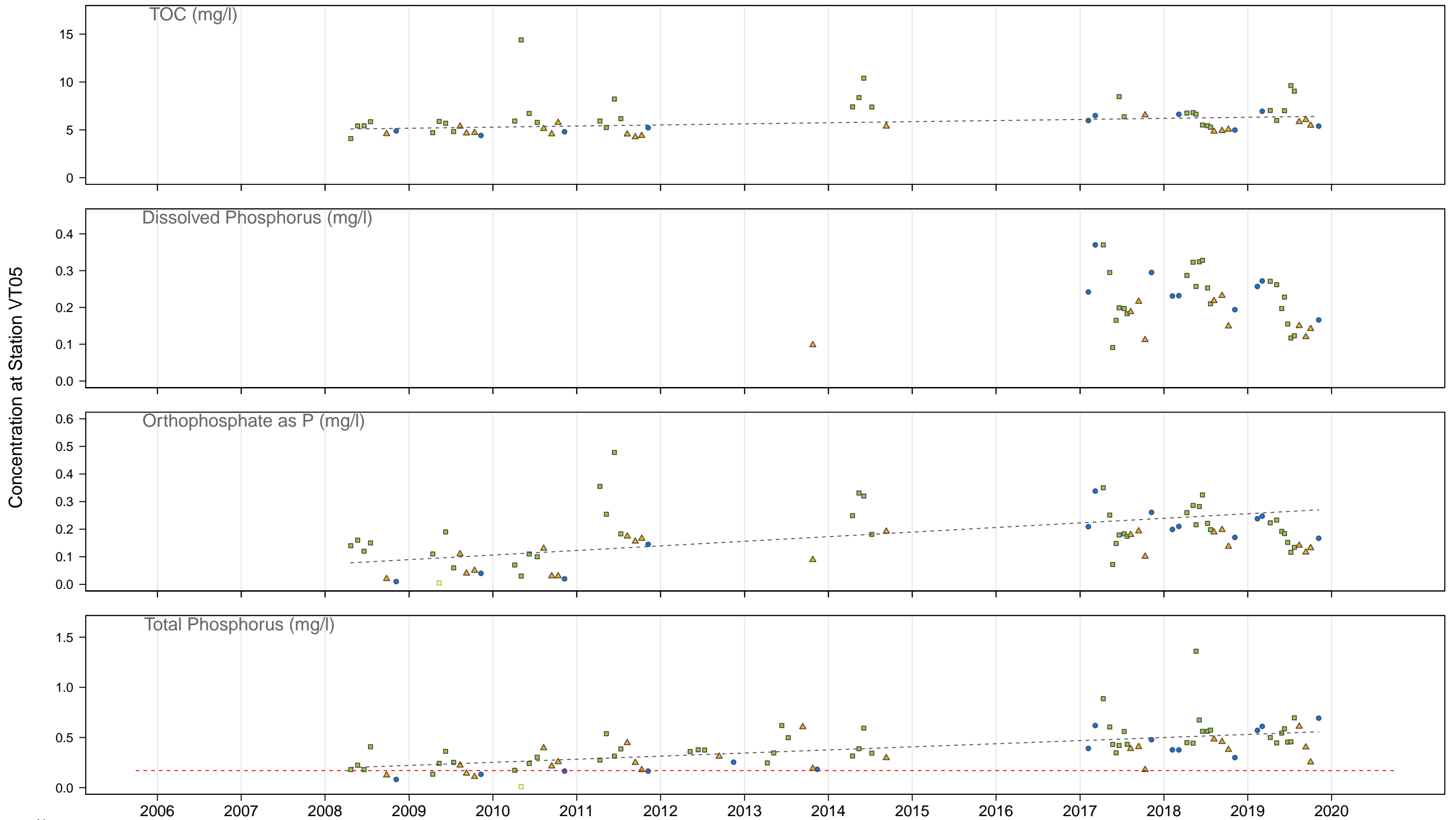


Figure C1-38
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M150



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non–Zero Mann–Kendall Trend
- - - Most Stringent Compliance Level

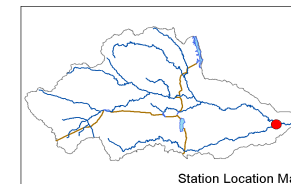
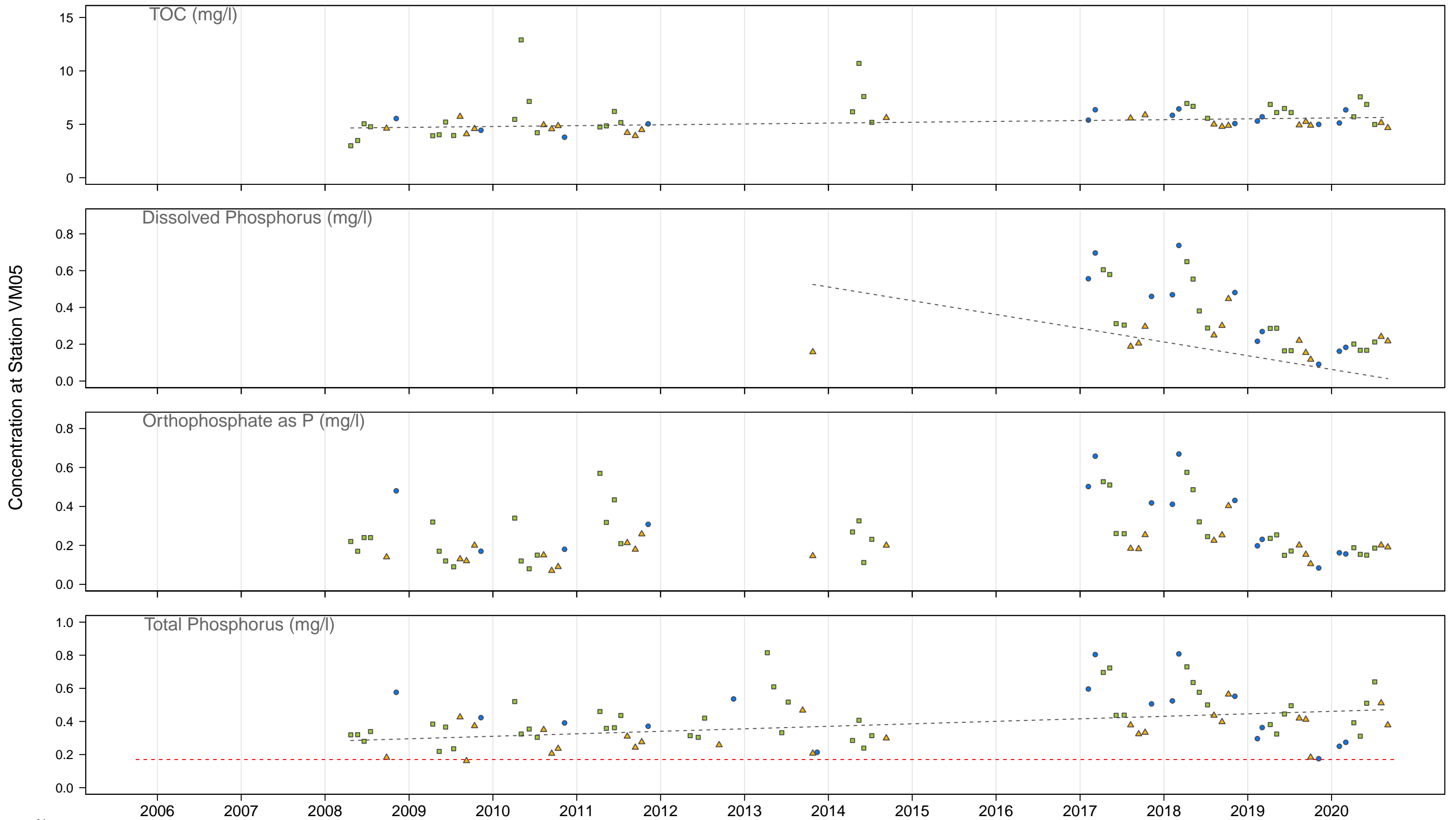


Figure C1–39
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station VT05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

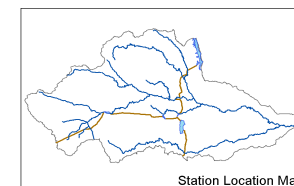
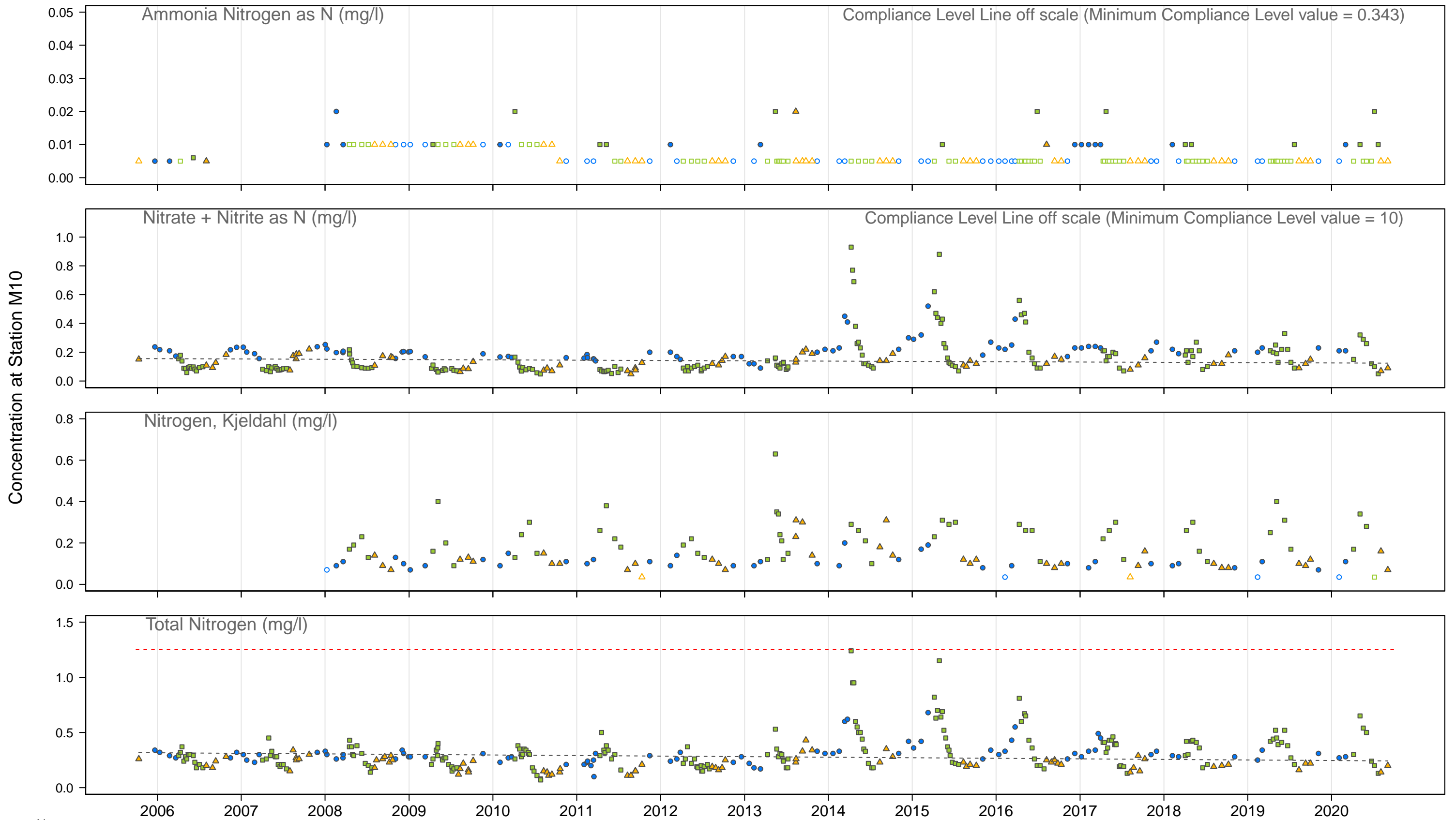


Figure C1-40
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VM05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

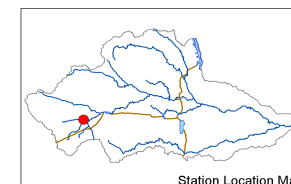
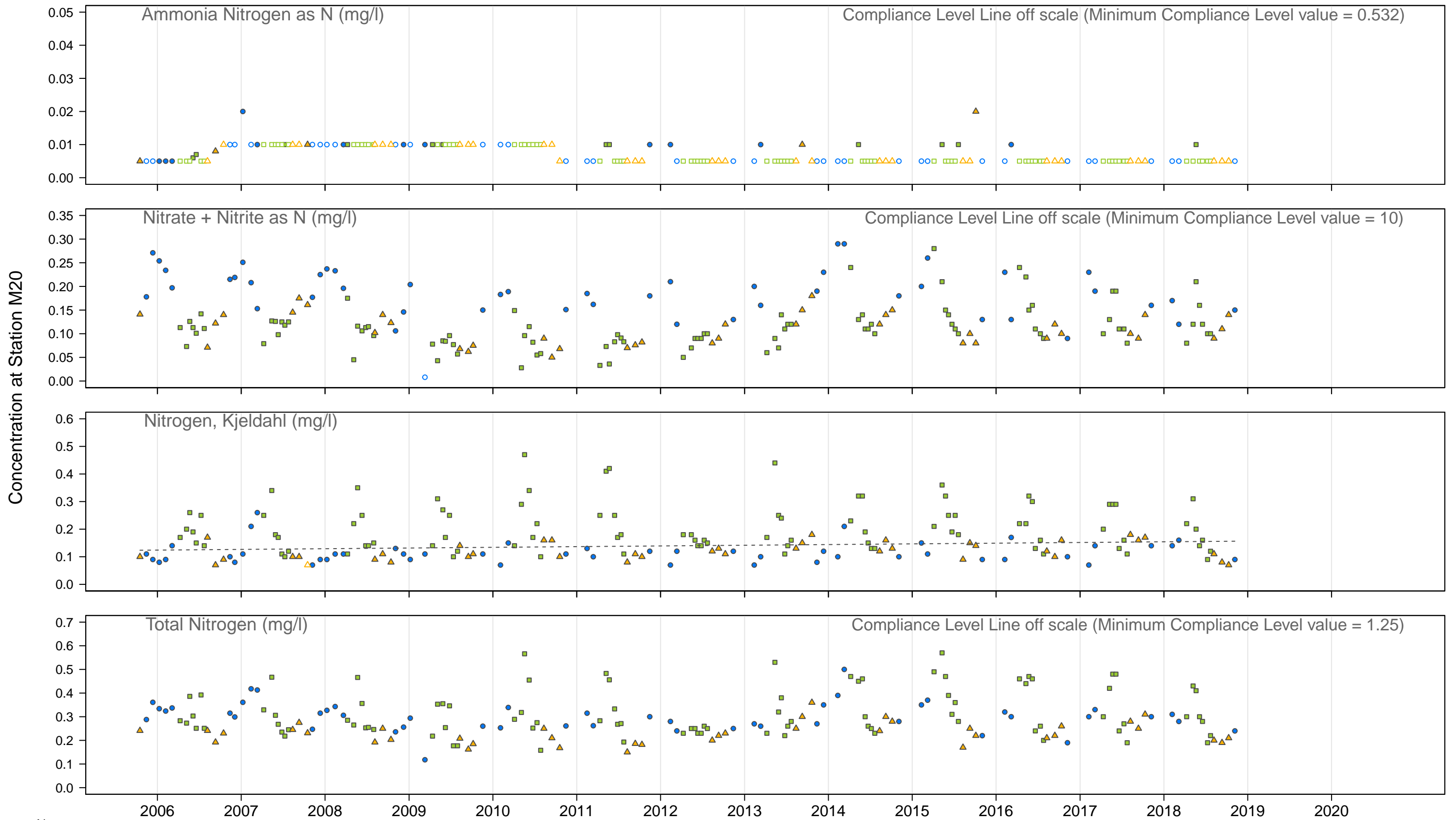


Figure C1-41
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

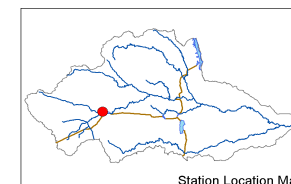
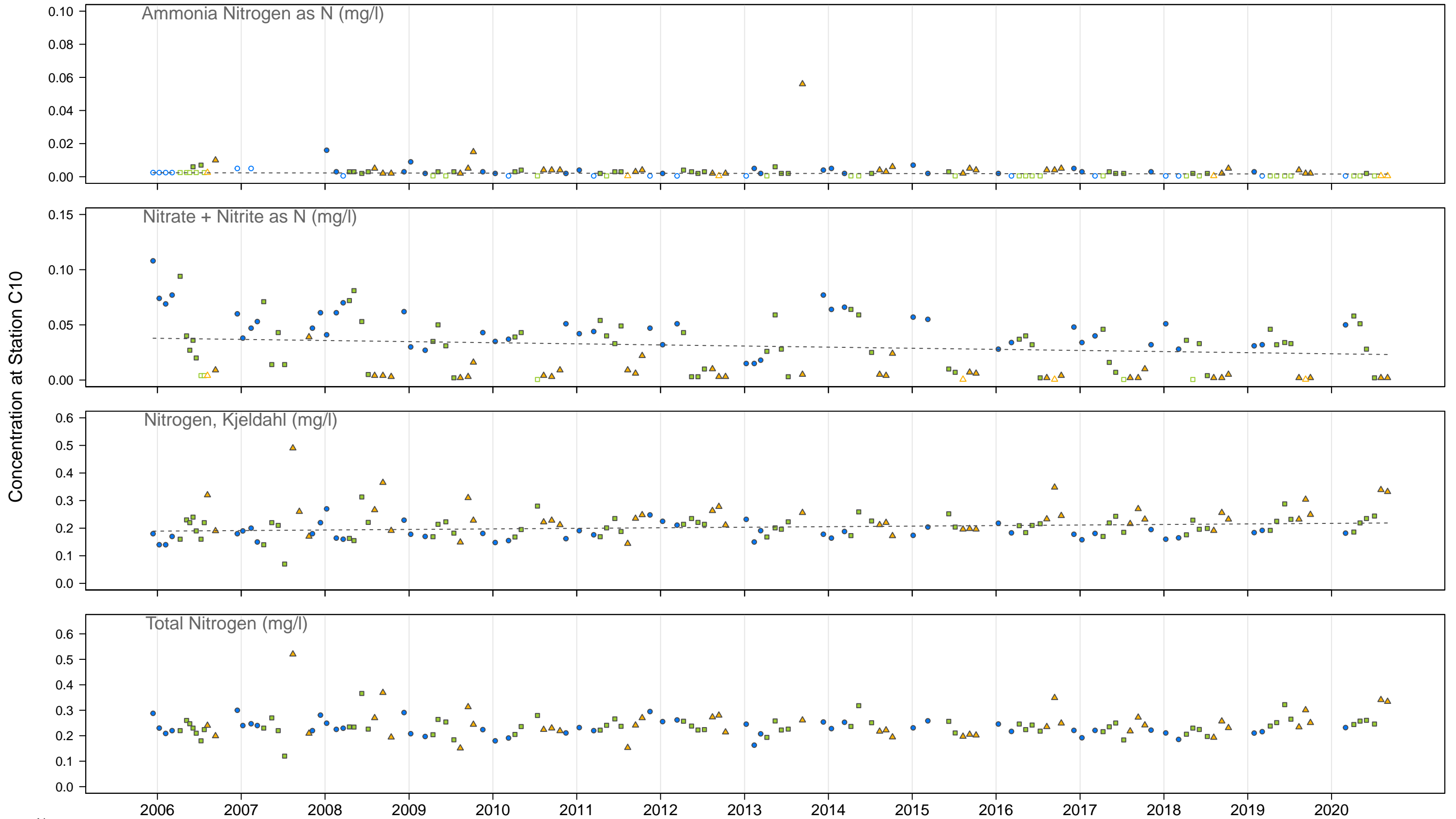


Figure C1-42
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

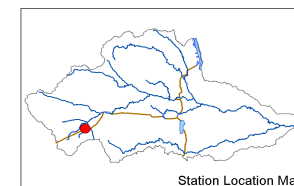
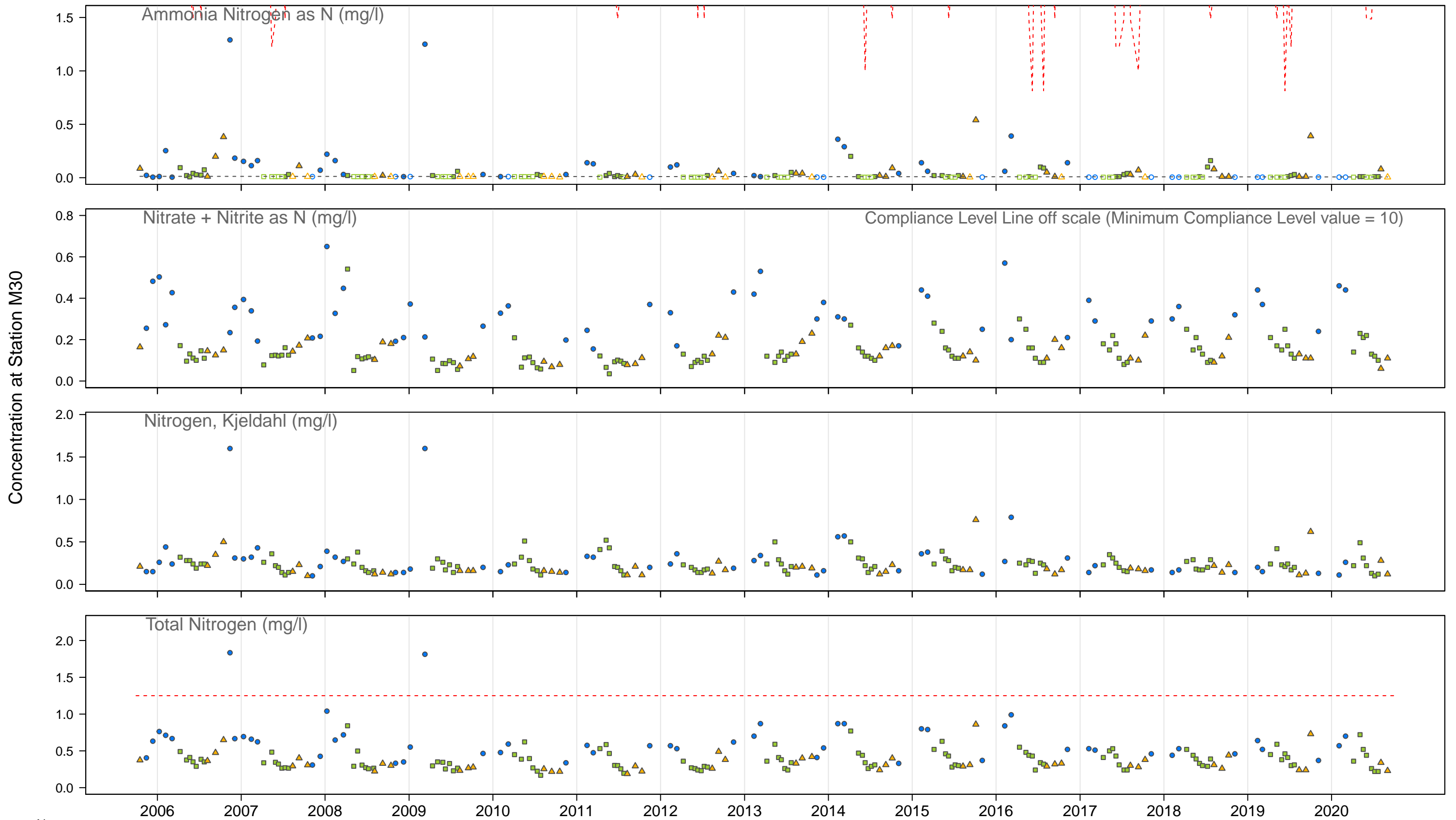


Figure C1-43
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

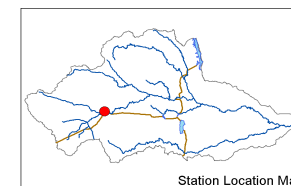
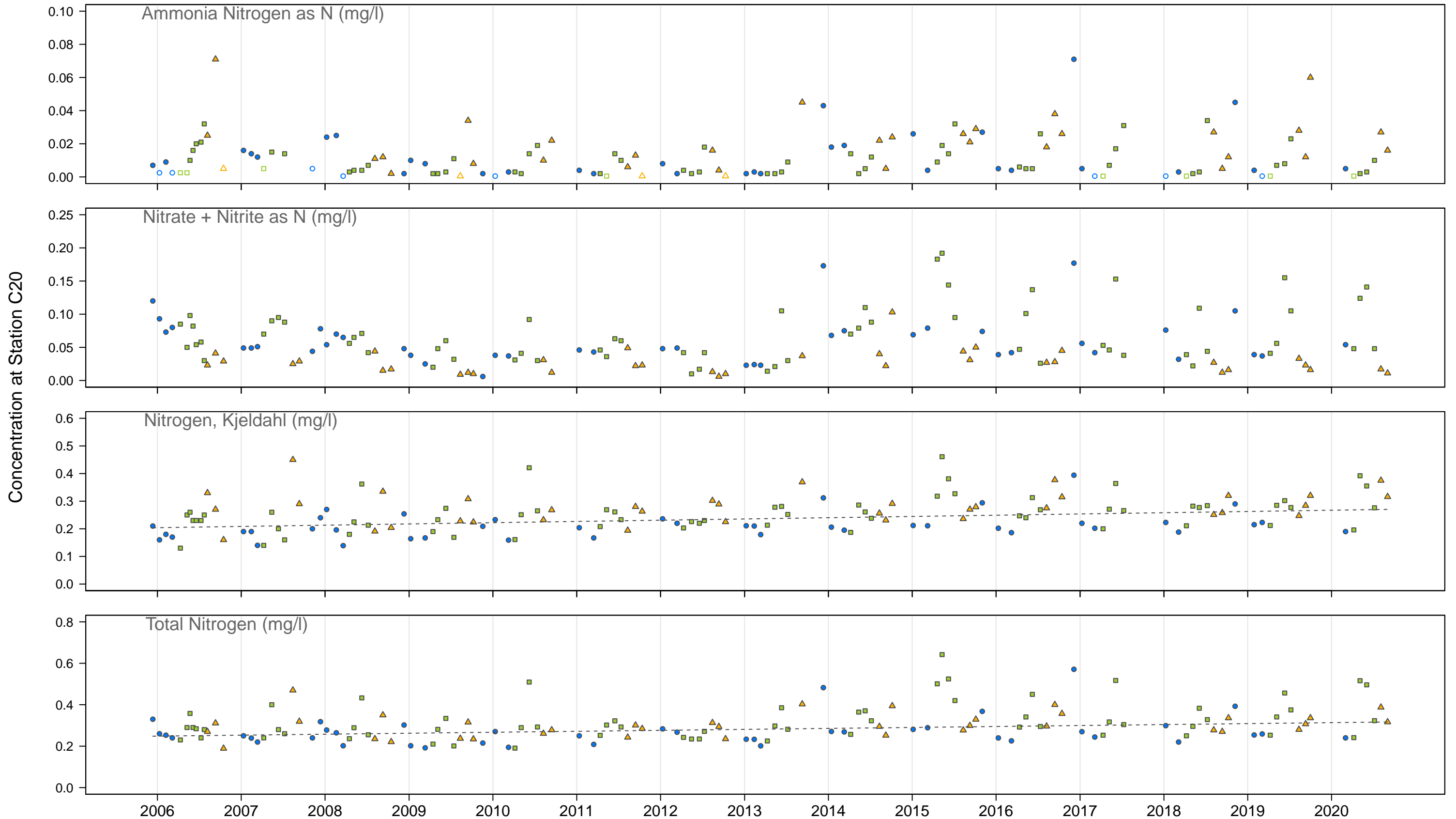


Figure C1-44
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

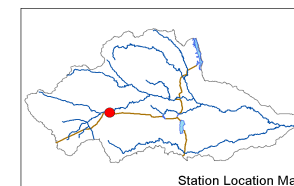


Figure C1-45
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

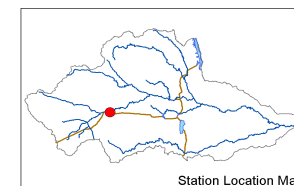
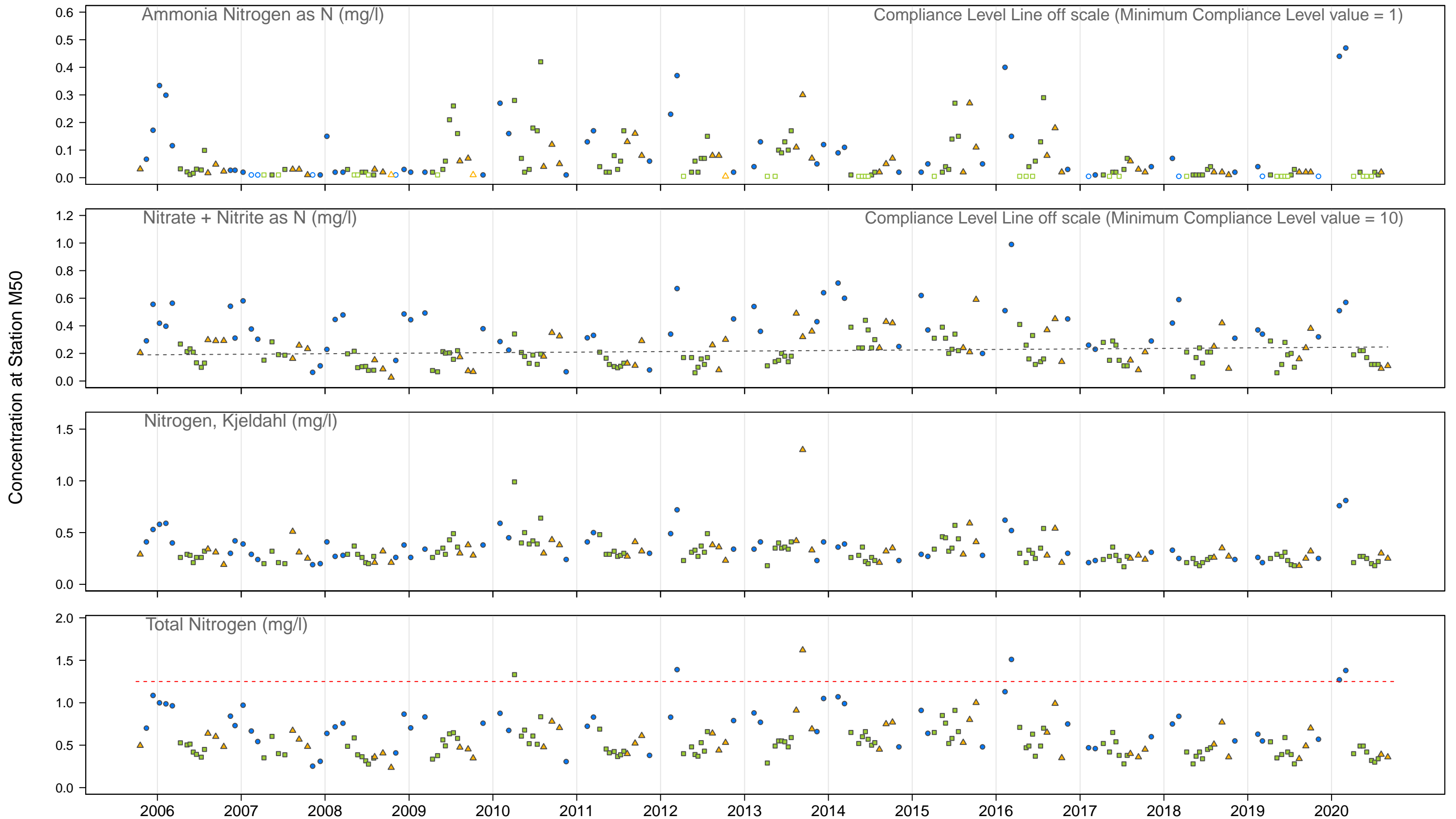


Figure C1-46
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M40



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non–Zero Mann–Kendall Trend
- - - Most Stringent Compliance Level

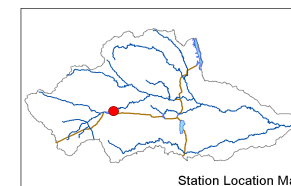
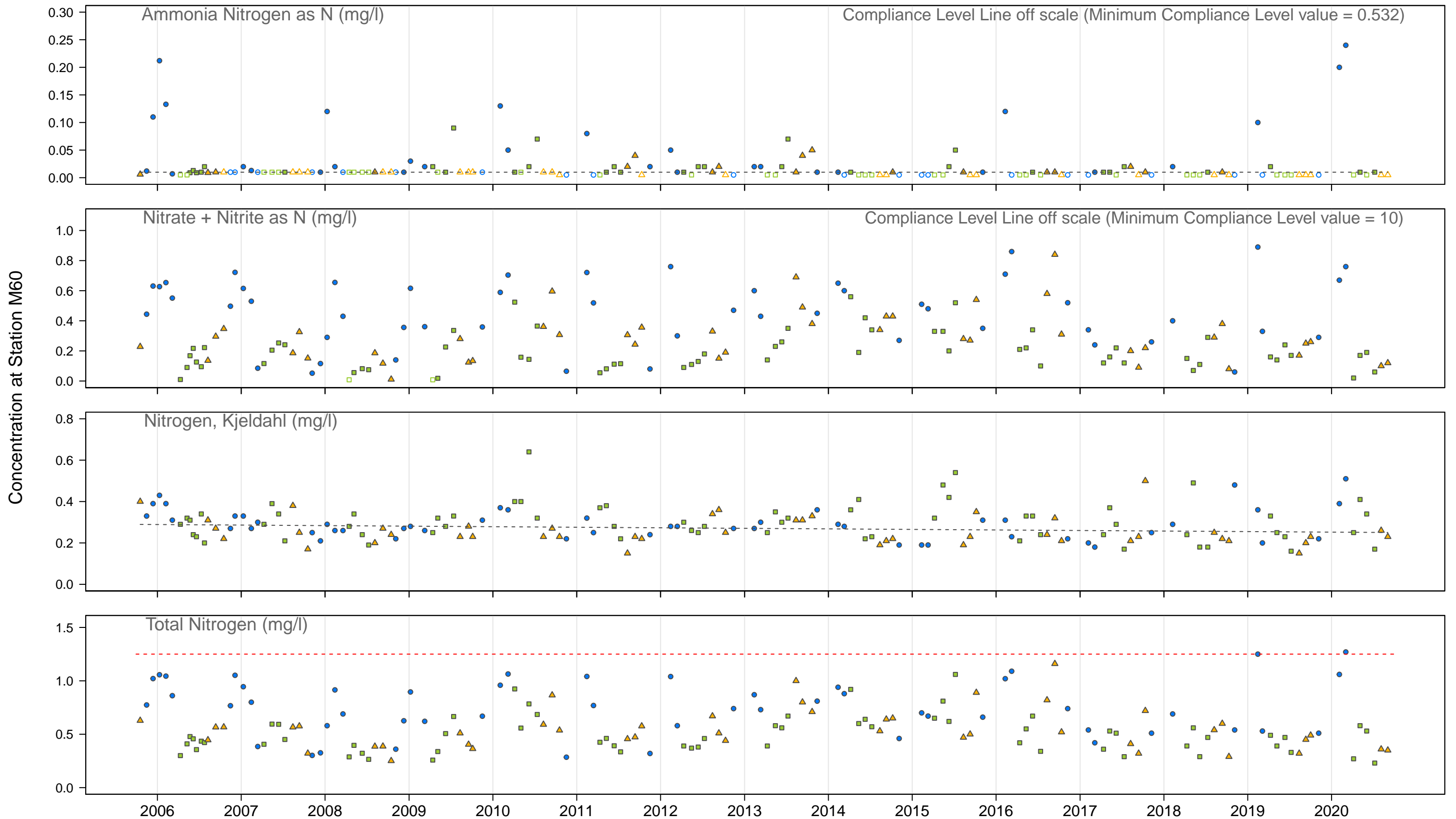


Figure C1–47
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

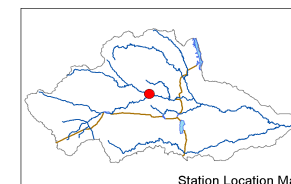
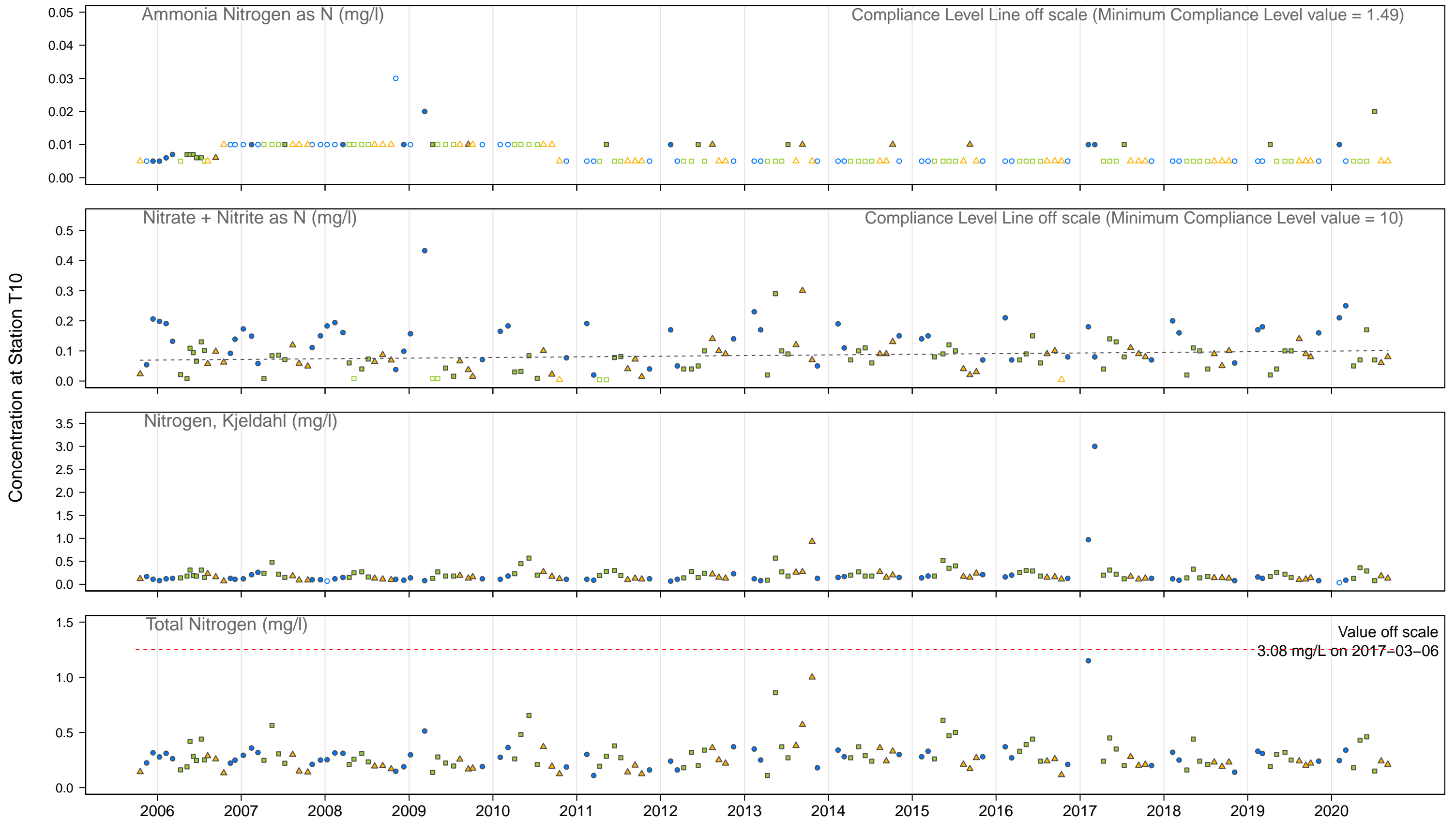


Figure C1-48
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M60



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

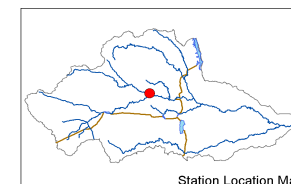
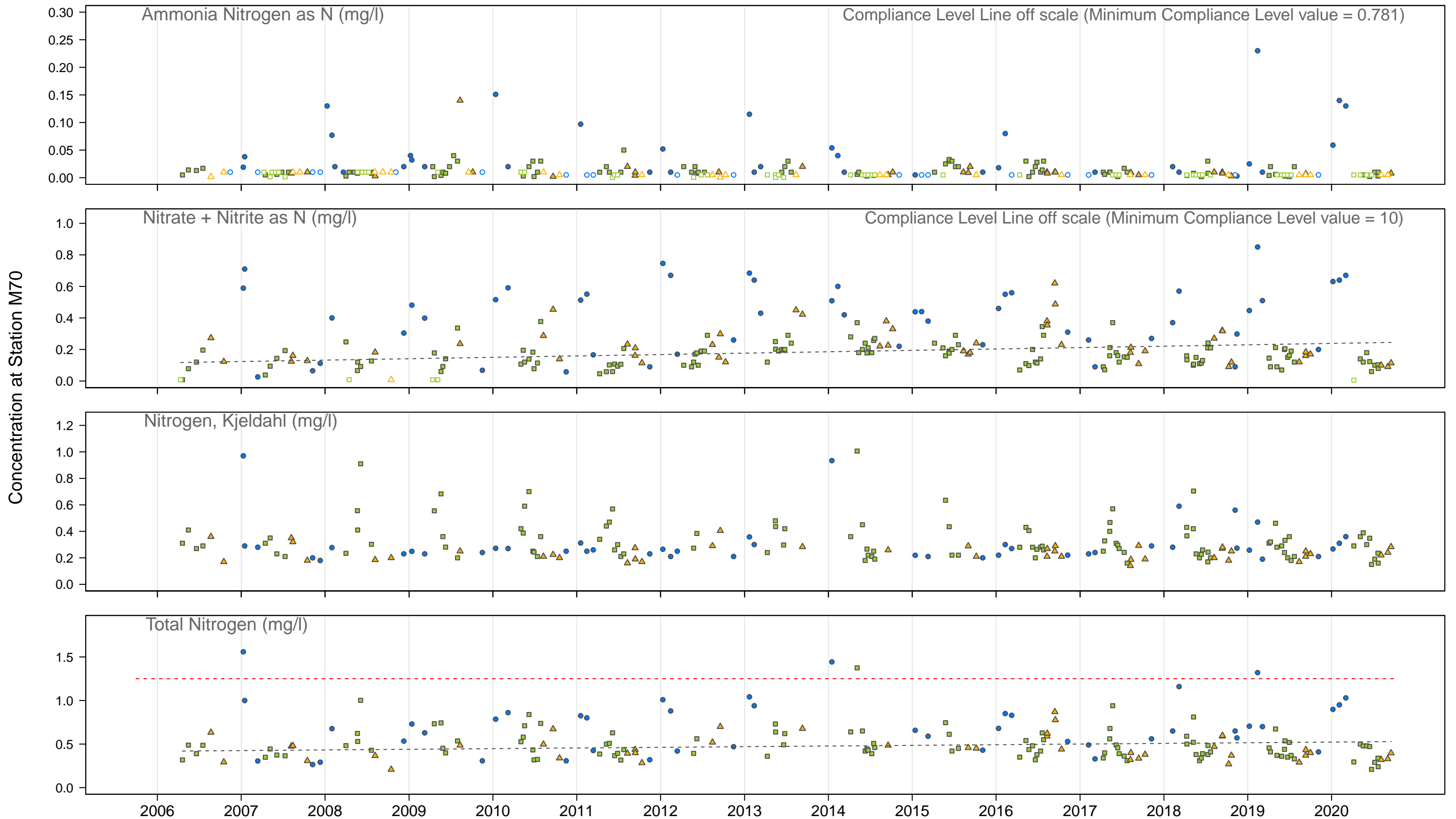


Figure C1-49
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

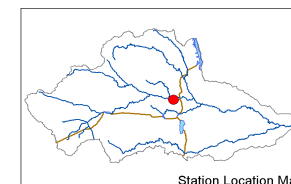
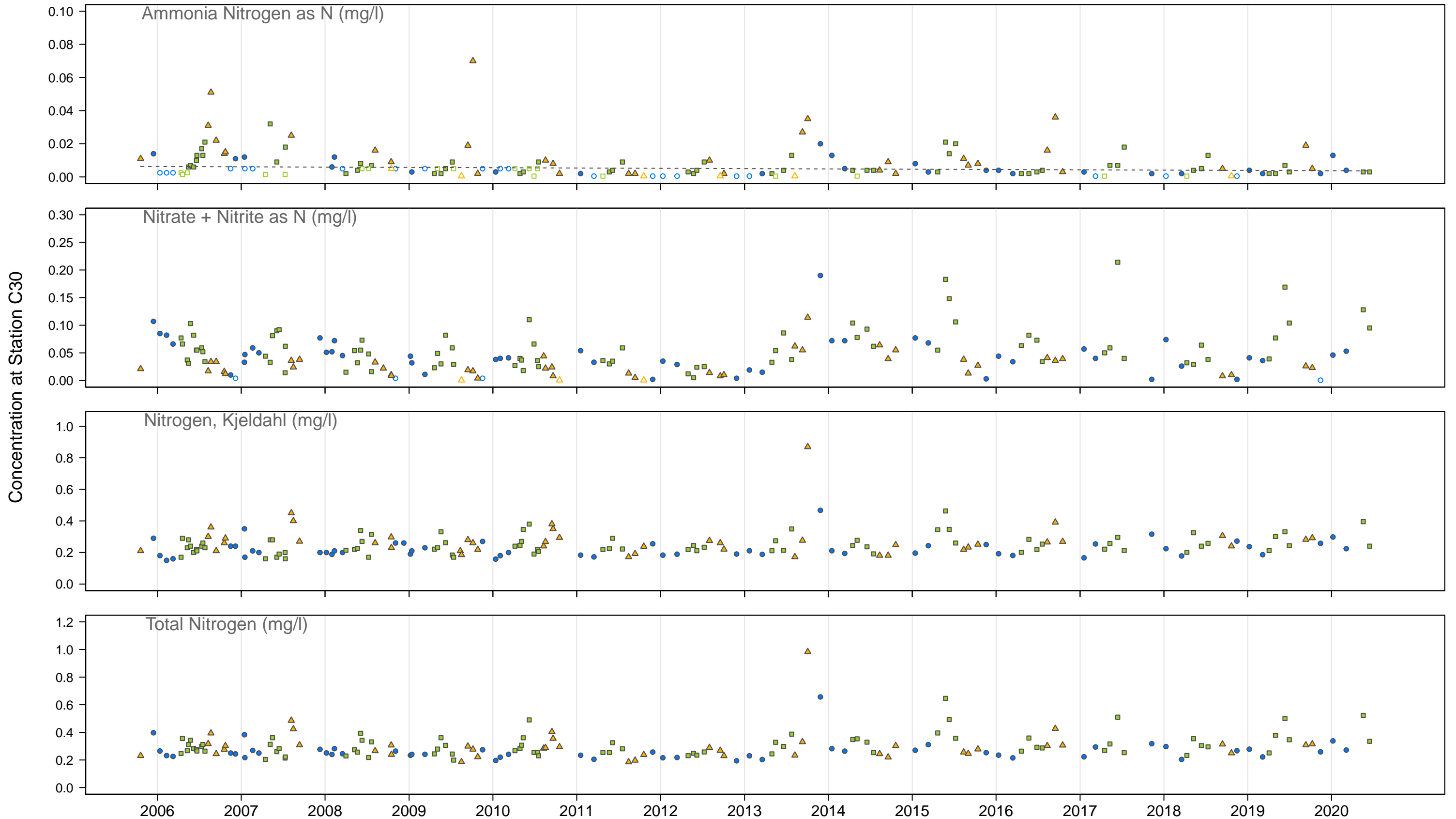


Figure C1-50
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M70



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

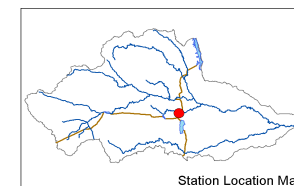
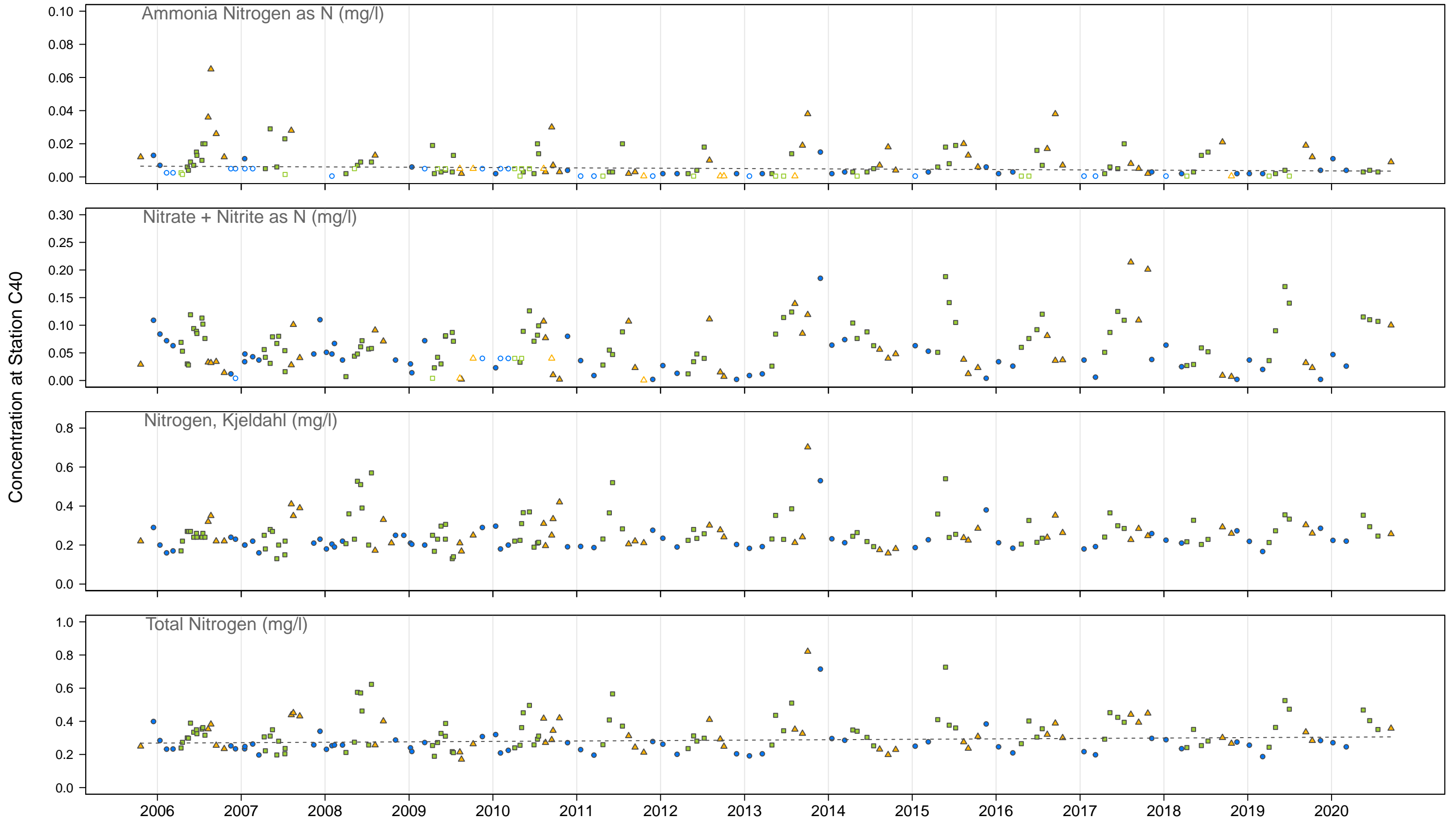


Figure C1-51
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

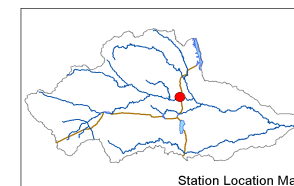
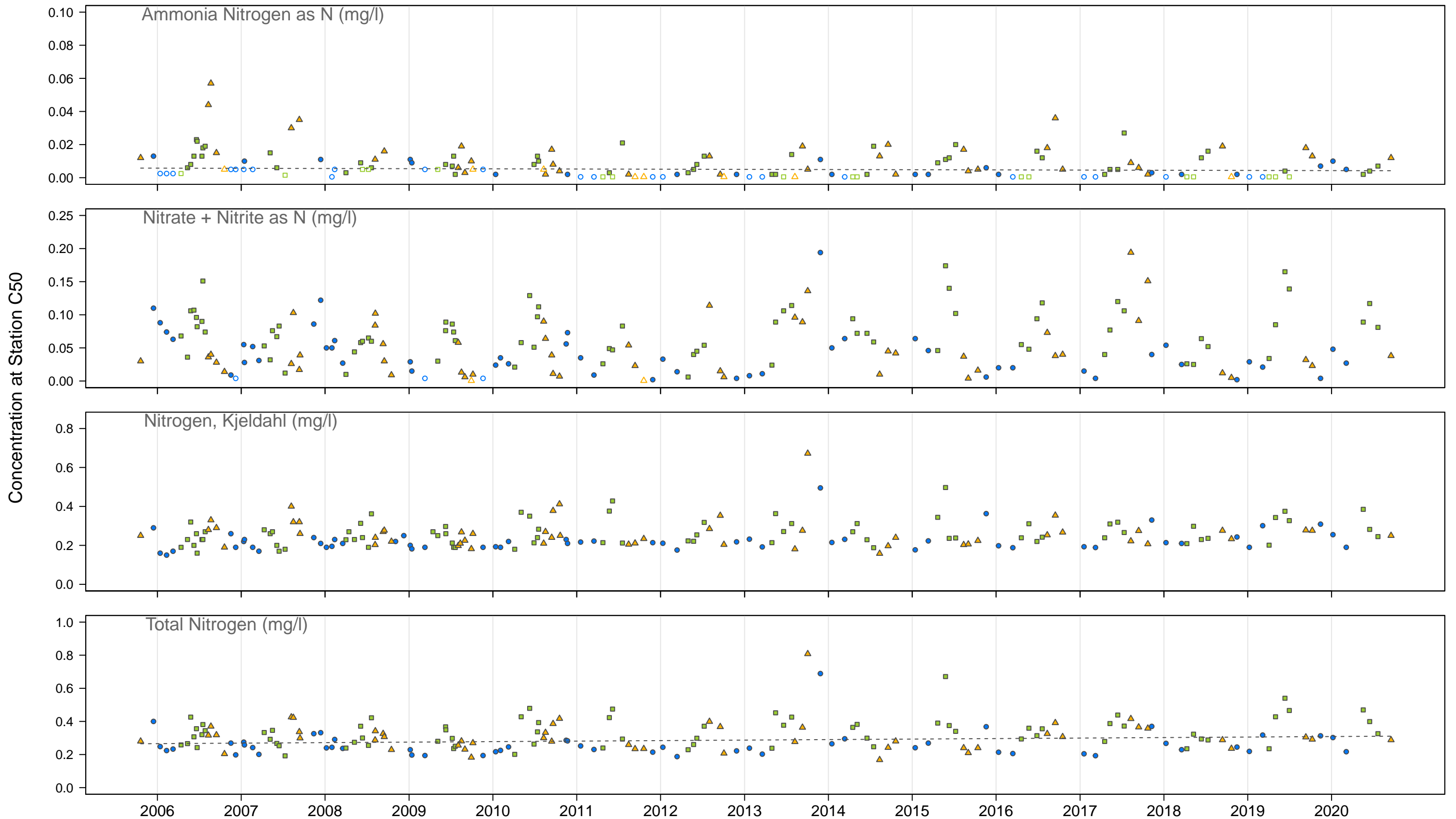


Figure C1-52
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

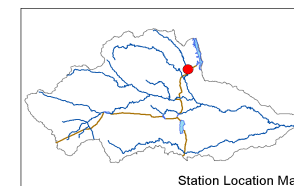
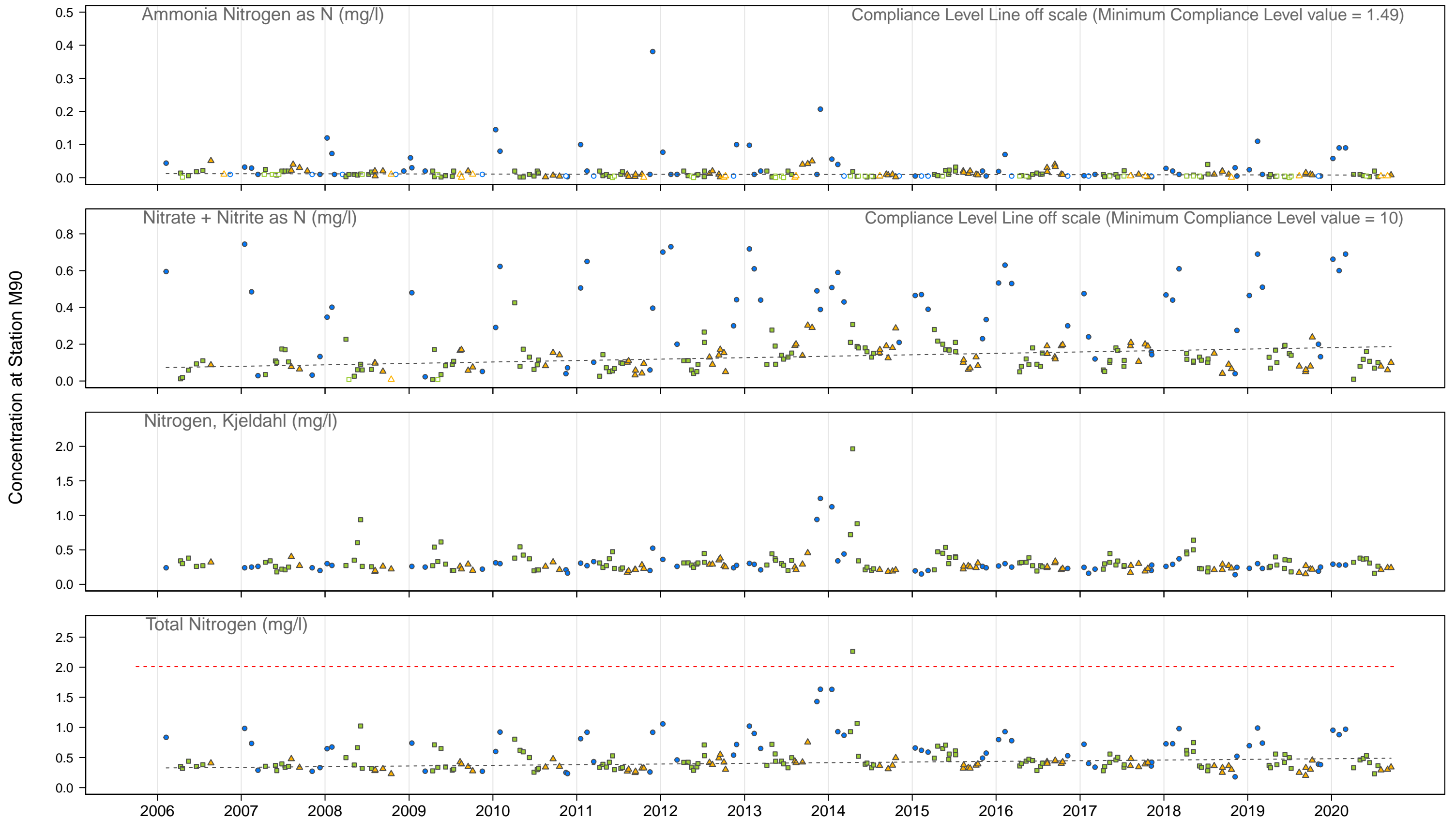


Figure C1–53
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

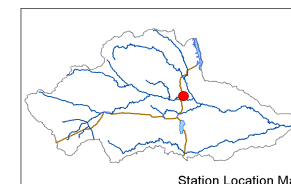
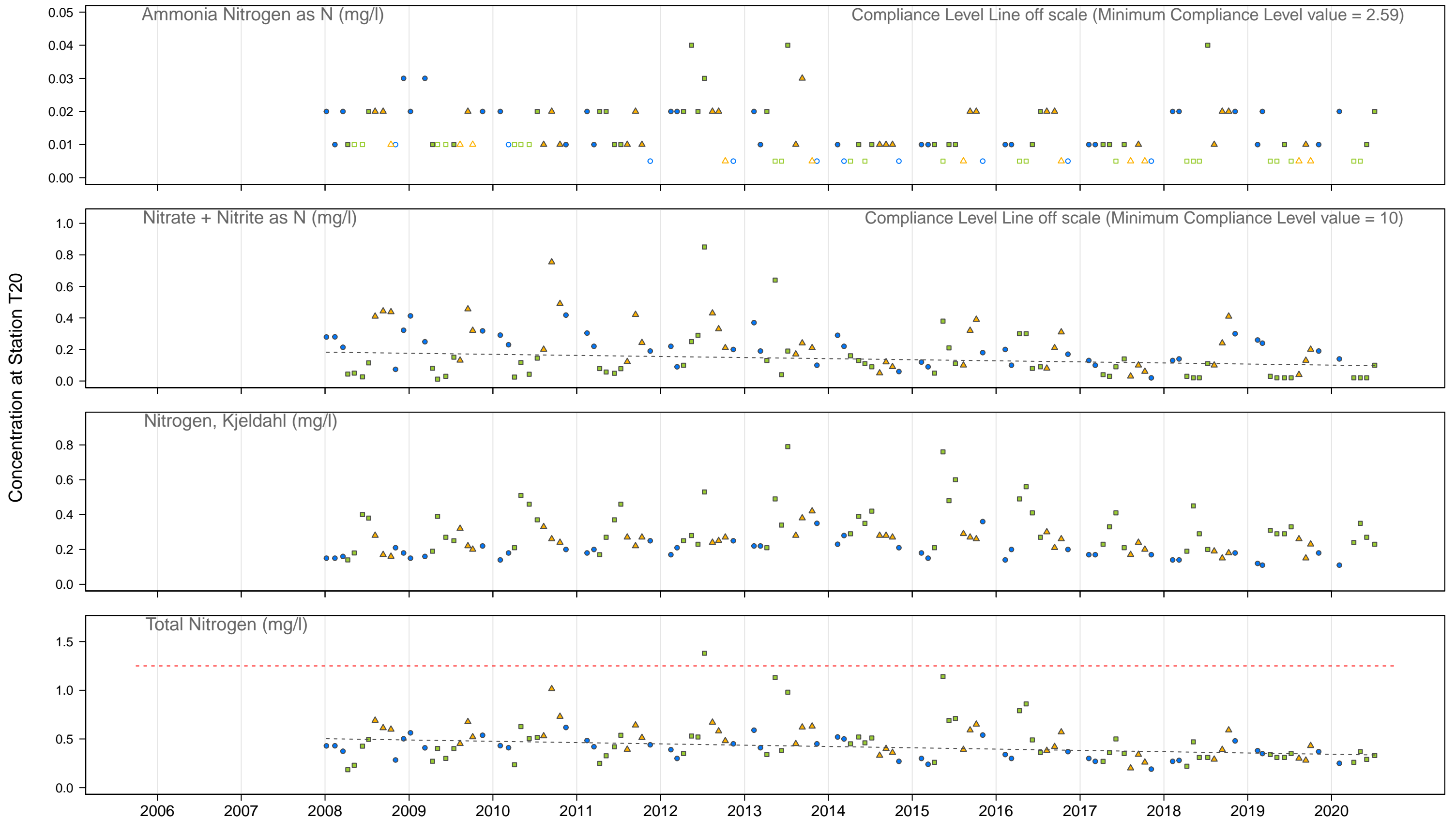


Figure C1-54
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

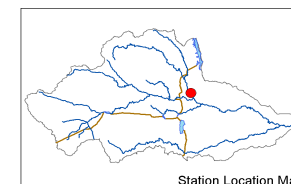
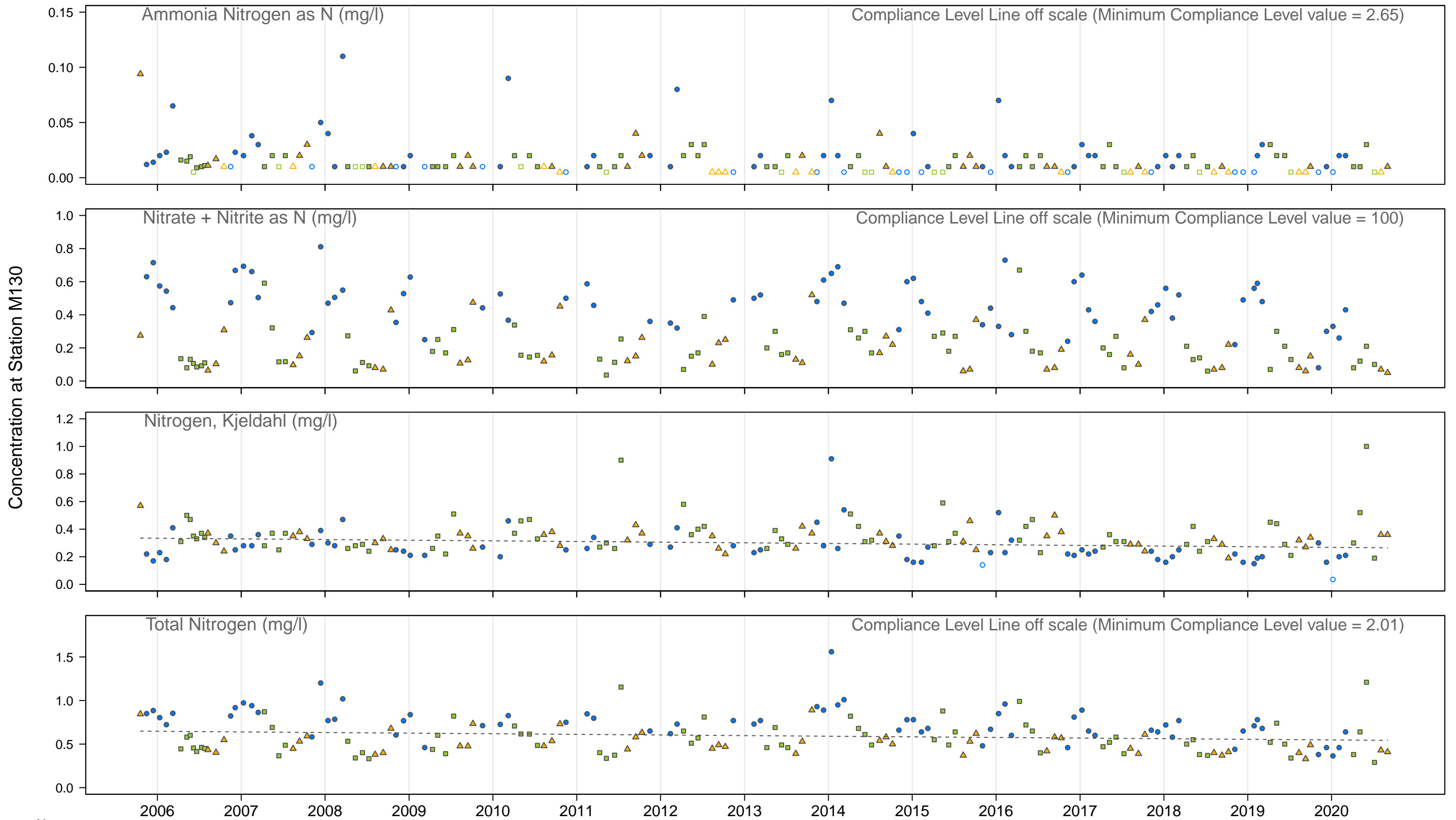


Figure C1-55
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

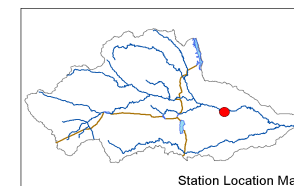
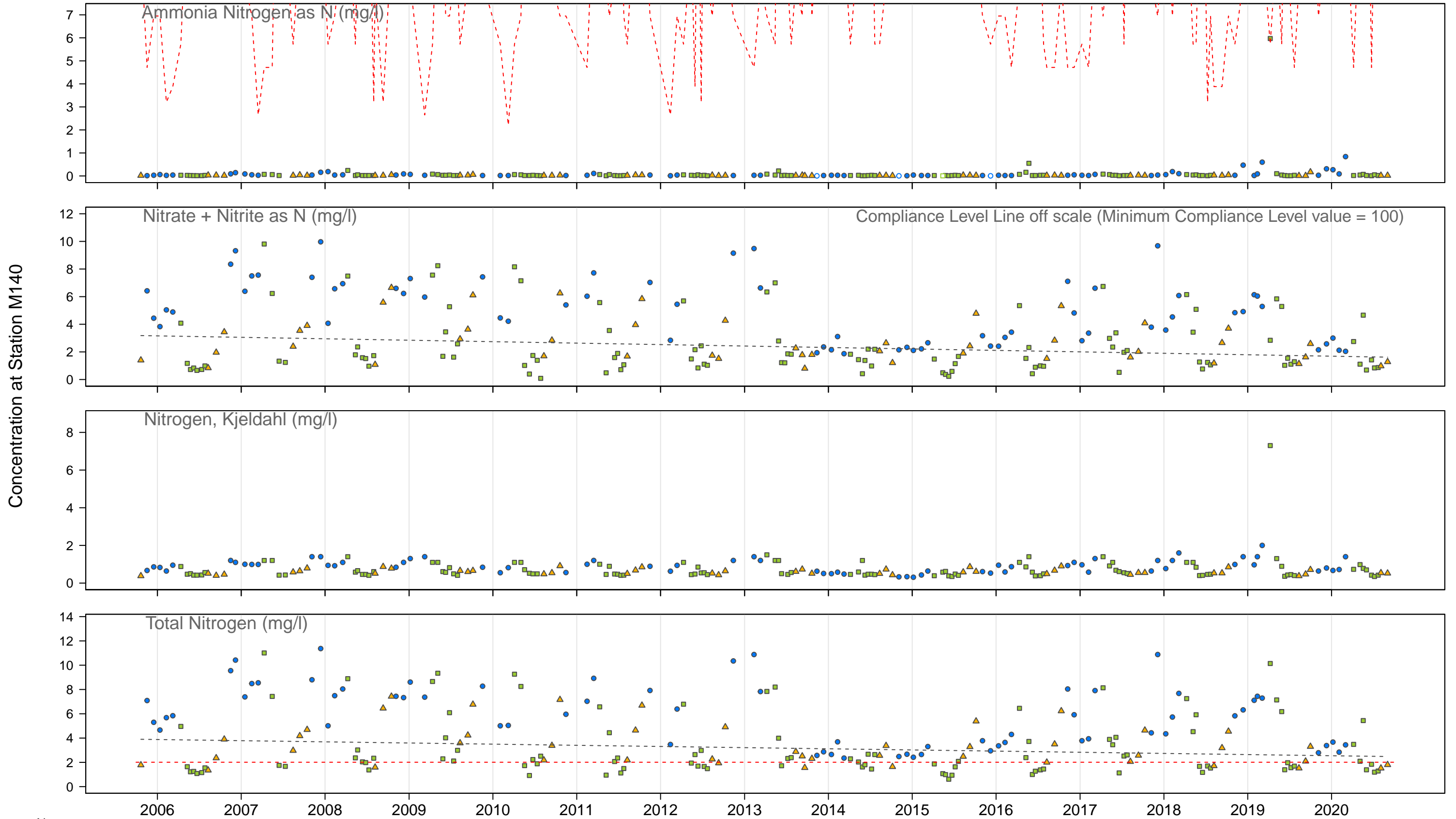


Figure C1-56
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M130



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

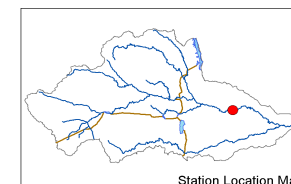
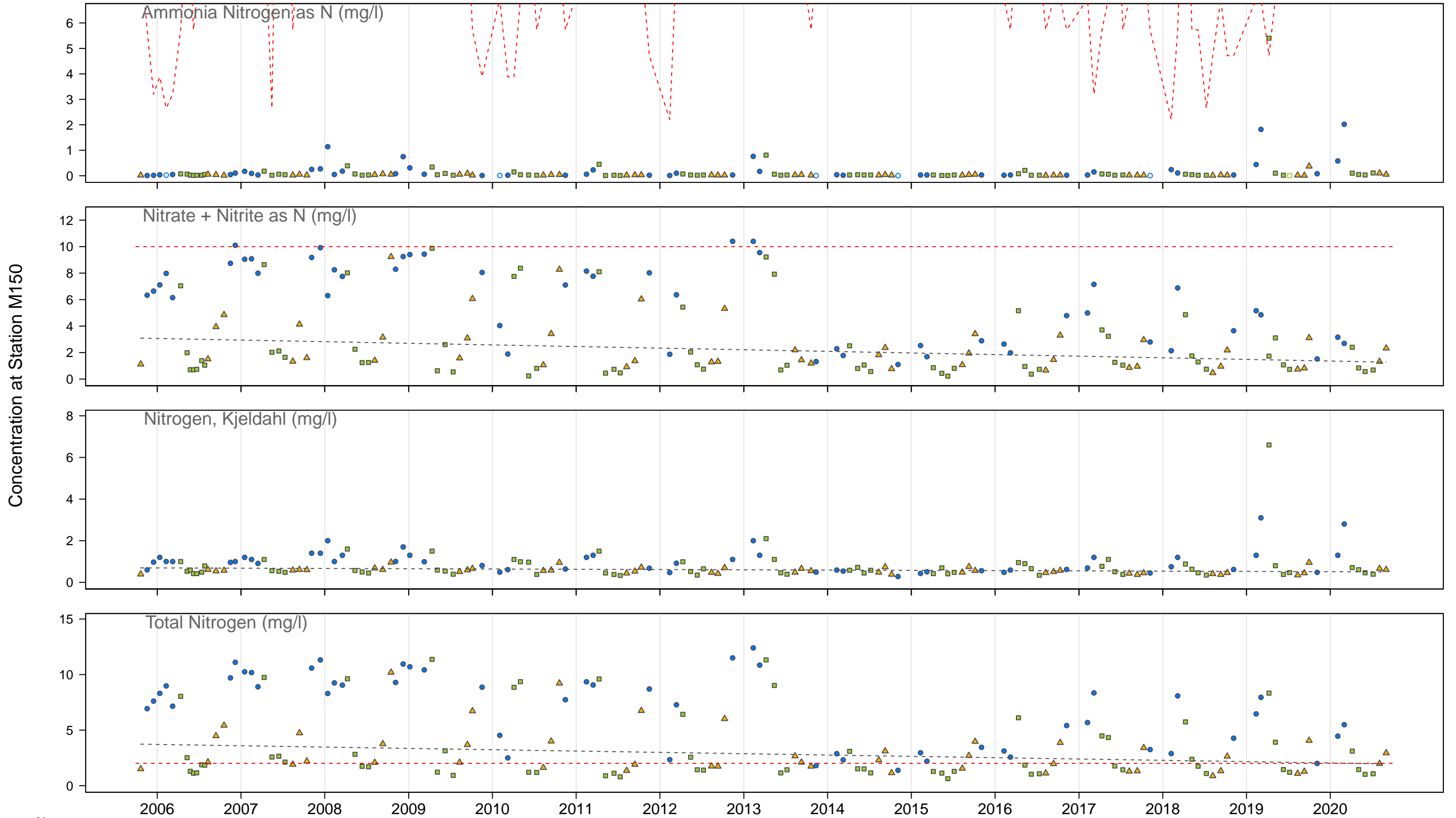


Figure C1-57
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M140



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

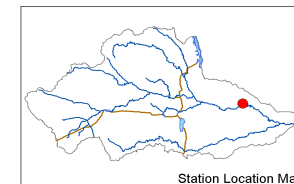
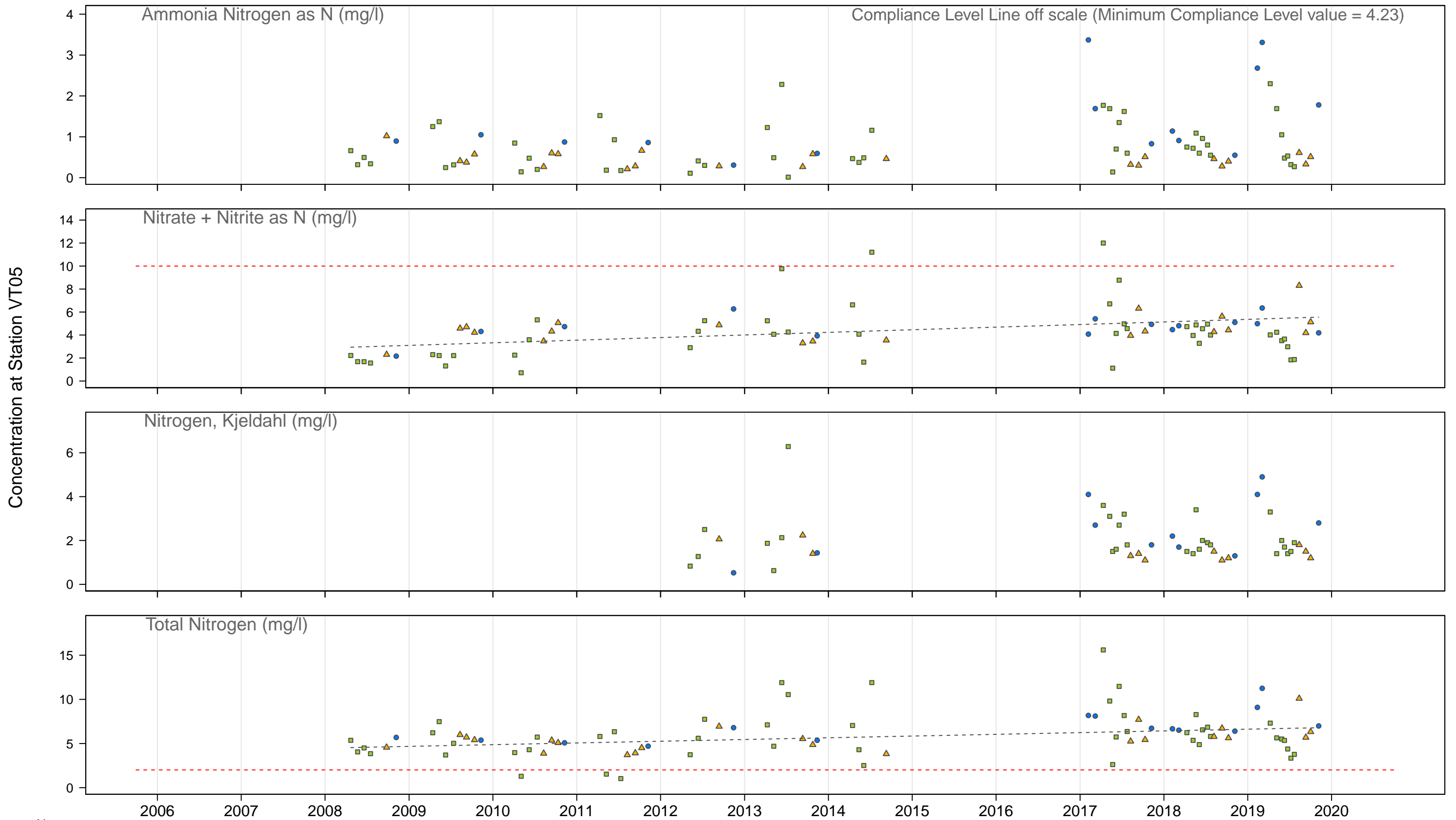


Figure C1-58
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M150



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend
- - - Most Stringent Compliance Level

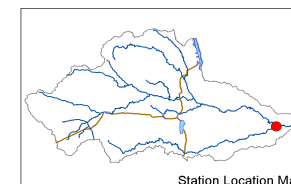
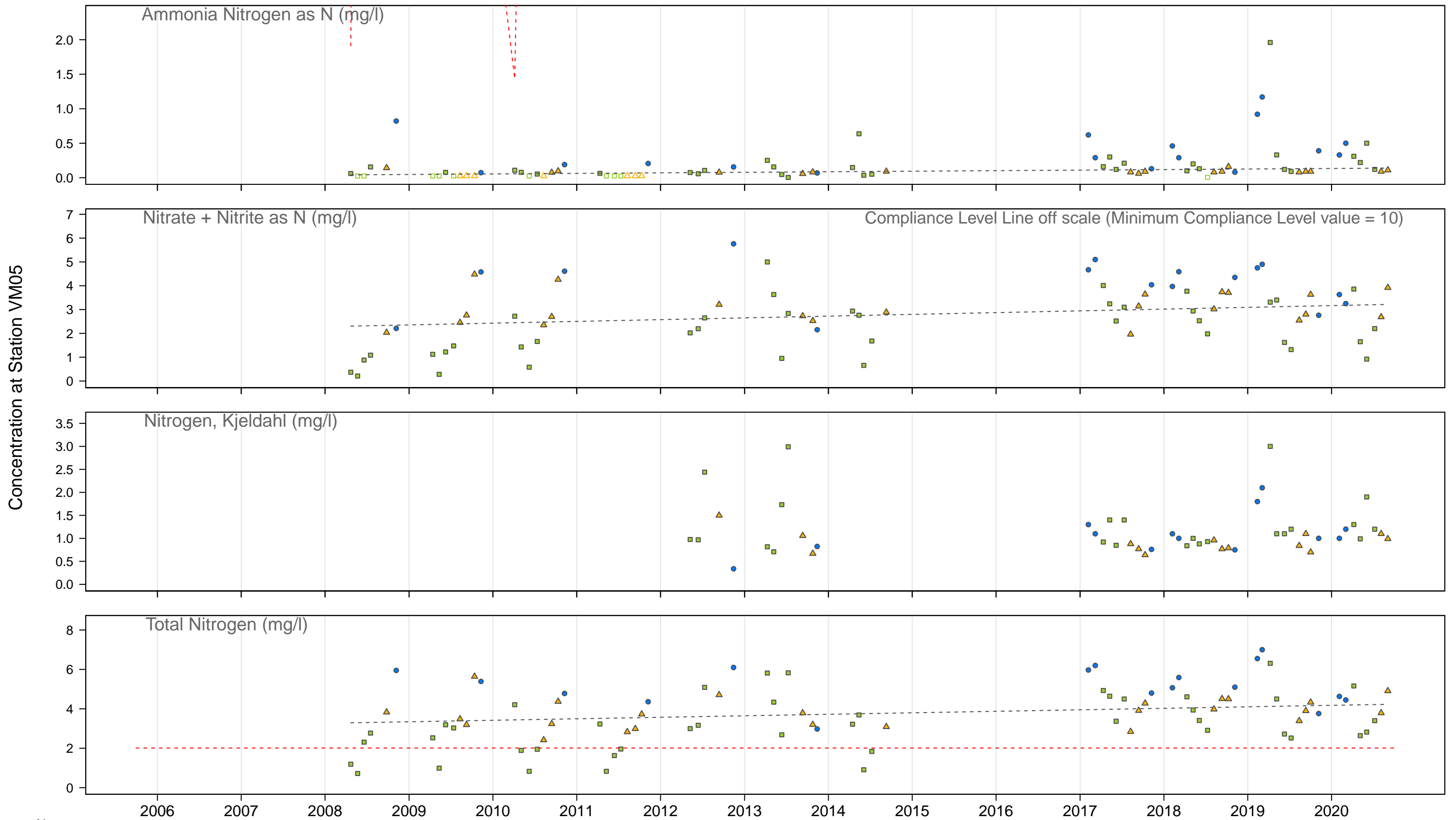


Figure C1-59
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VT05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non-Zero Mann-Kendall Trend
- Most Stringent Compliance Level

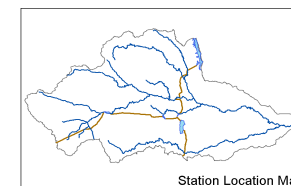
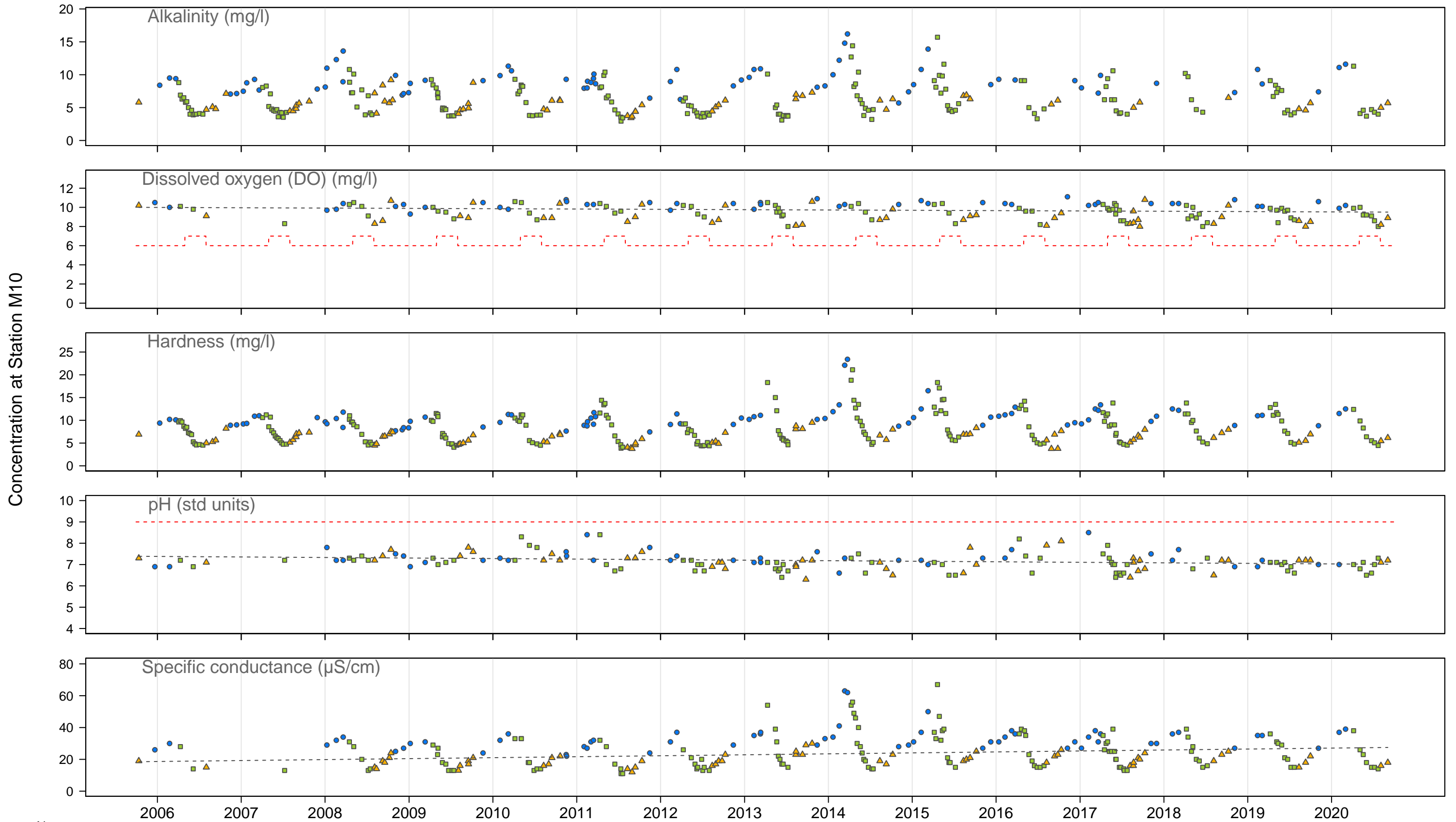


Figure C1-60
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VM05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

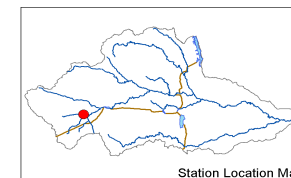
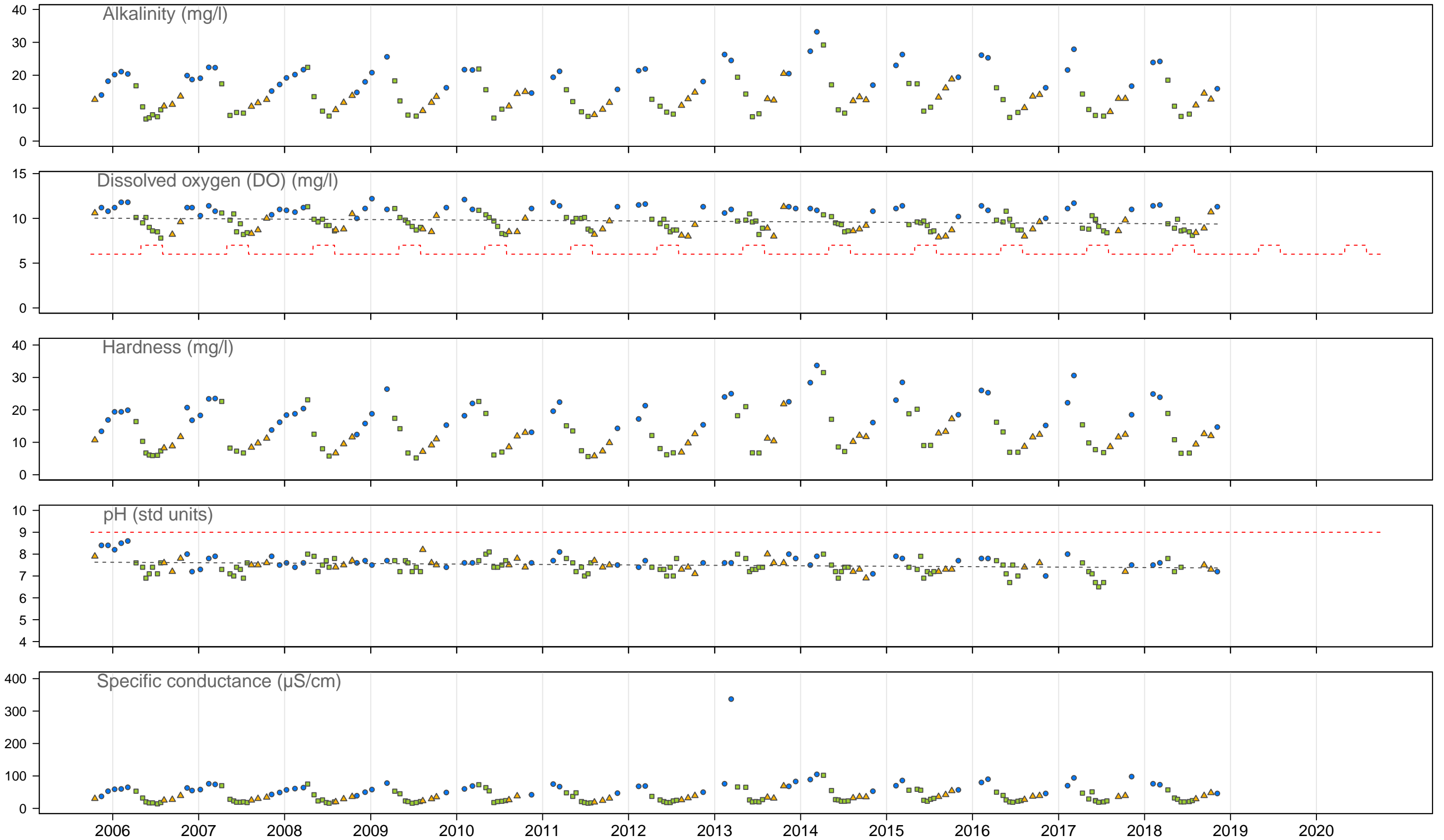


Figure C1-61
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M10

Concentration at Station M20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

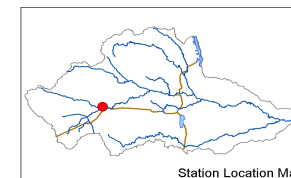
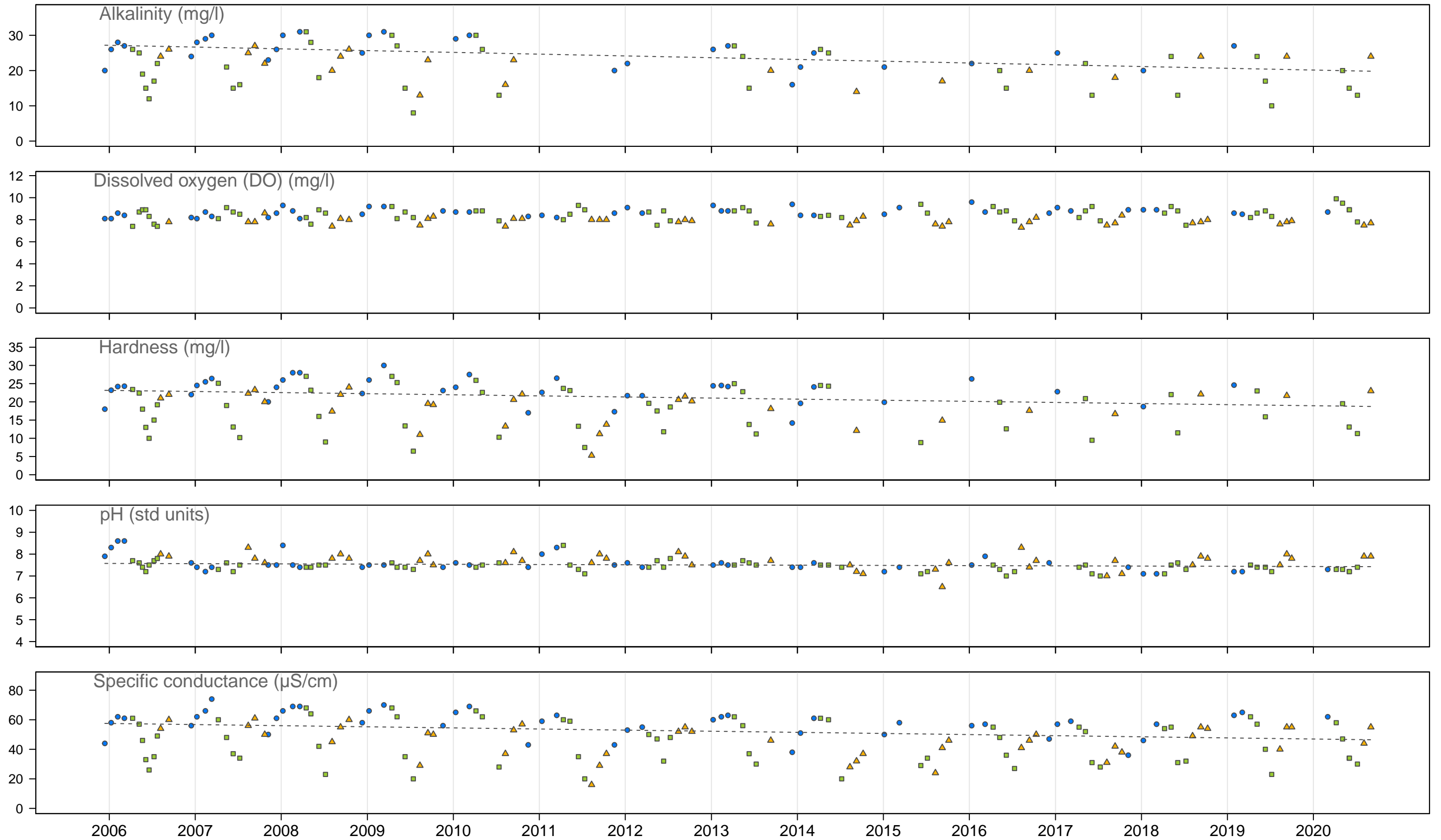


Figure C1-62
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M20

Concentration at Station C10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

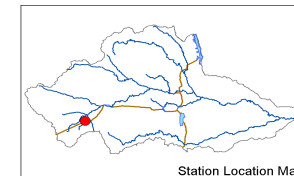
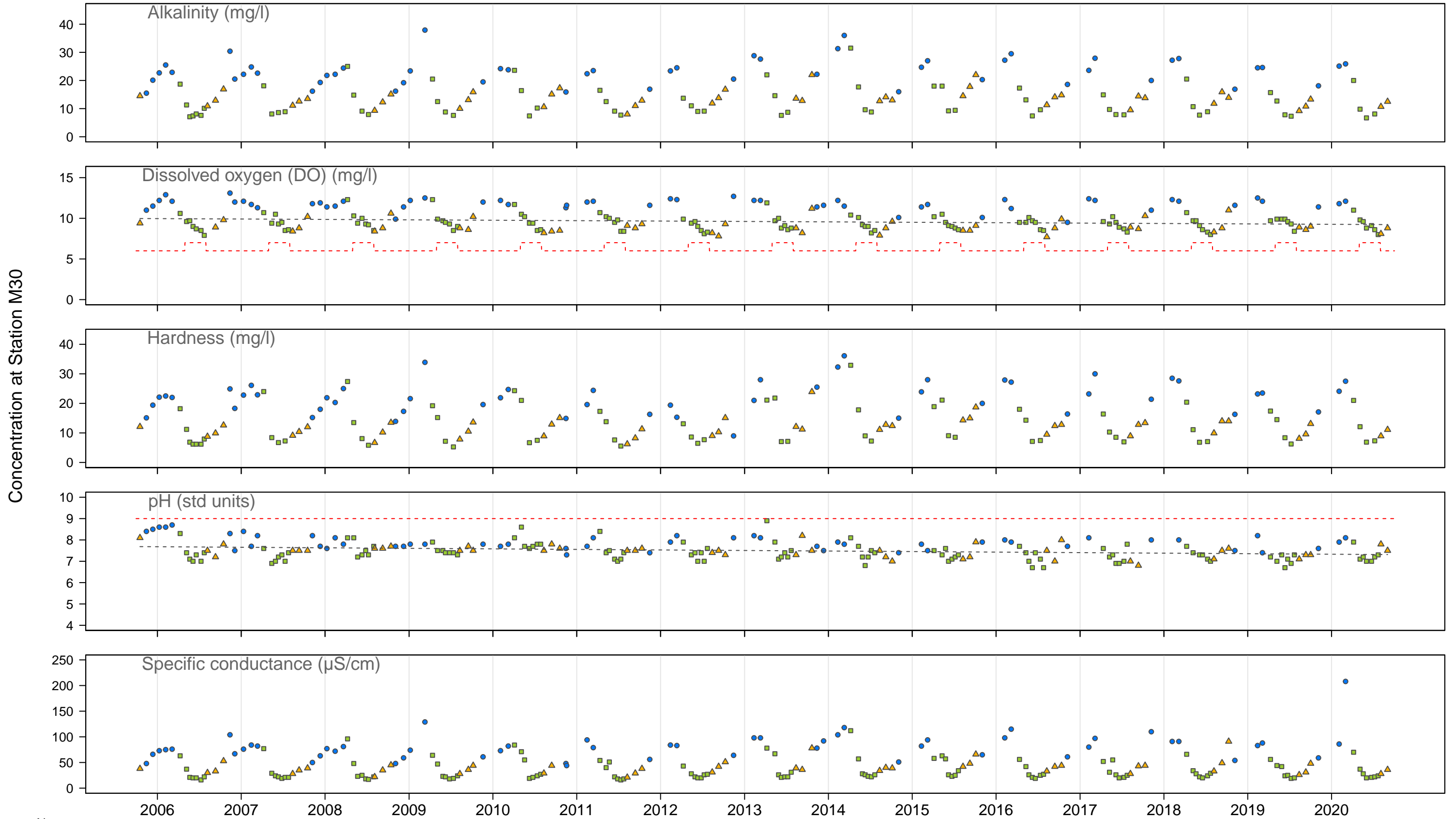


Figure C1-63
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C10



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non–Zero Mann–Kendall Trend

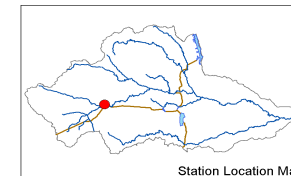
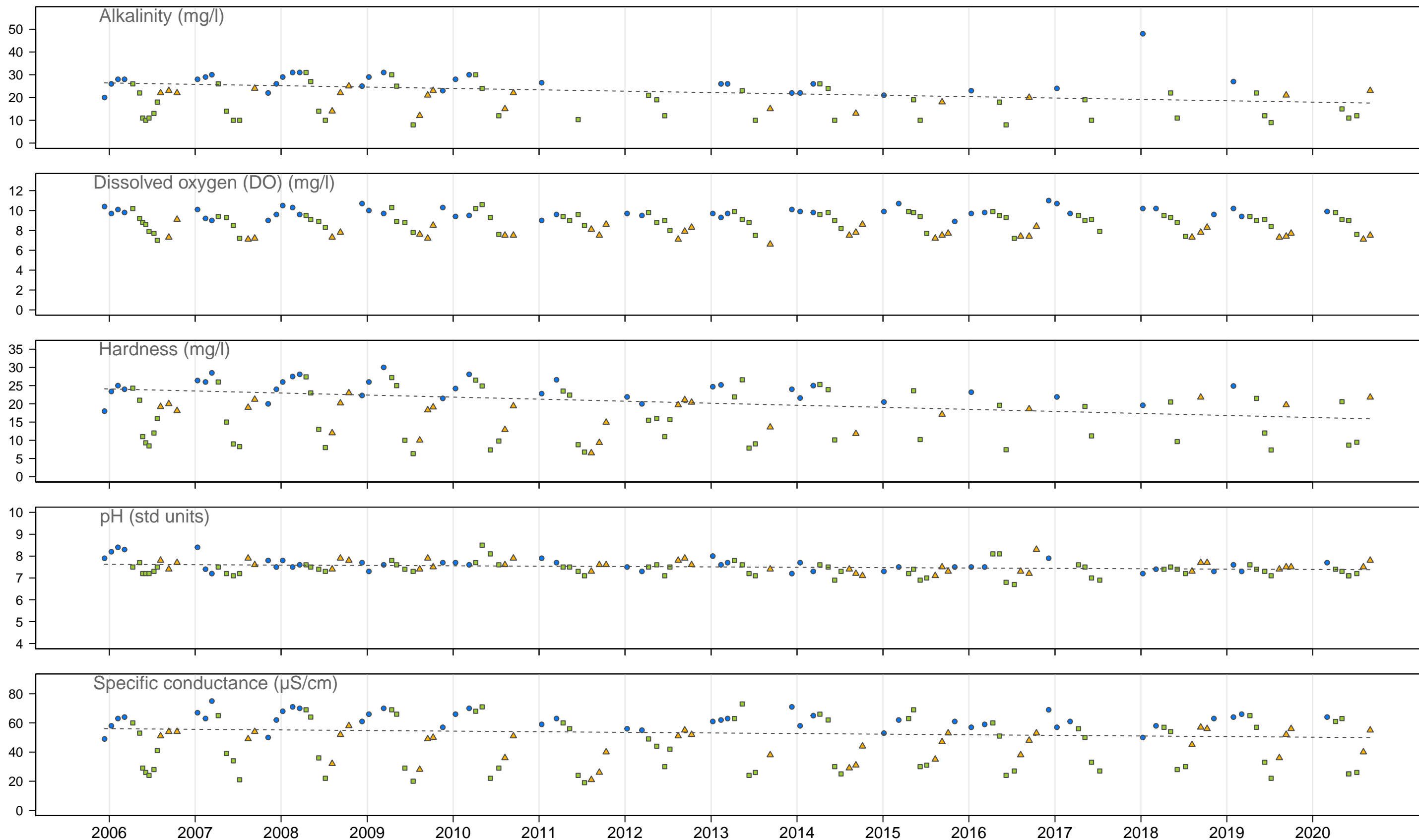


Figure C1–64
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

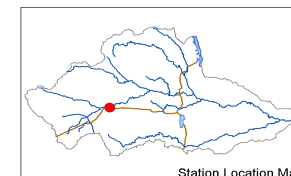
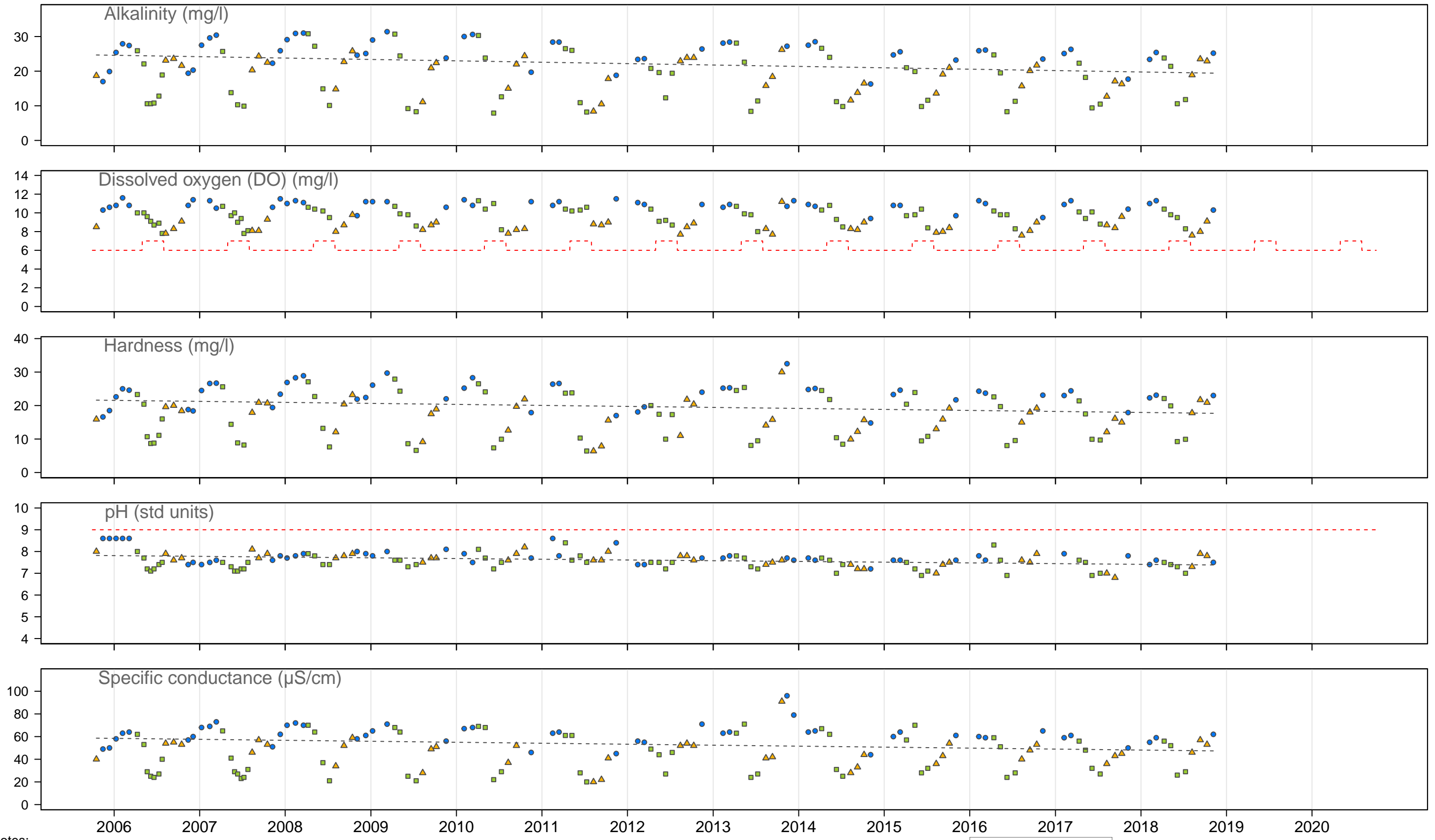


Figure C1-65
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C20

Concentration at Station M40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

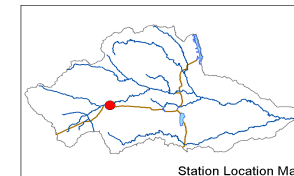
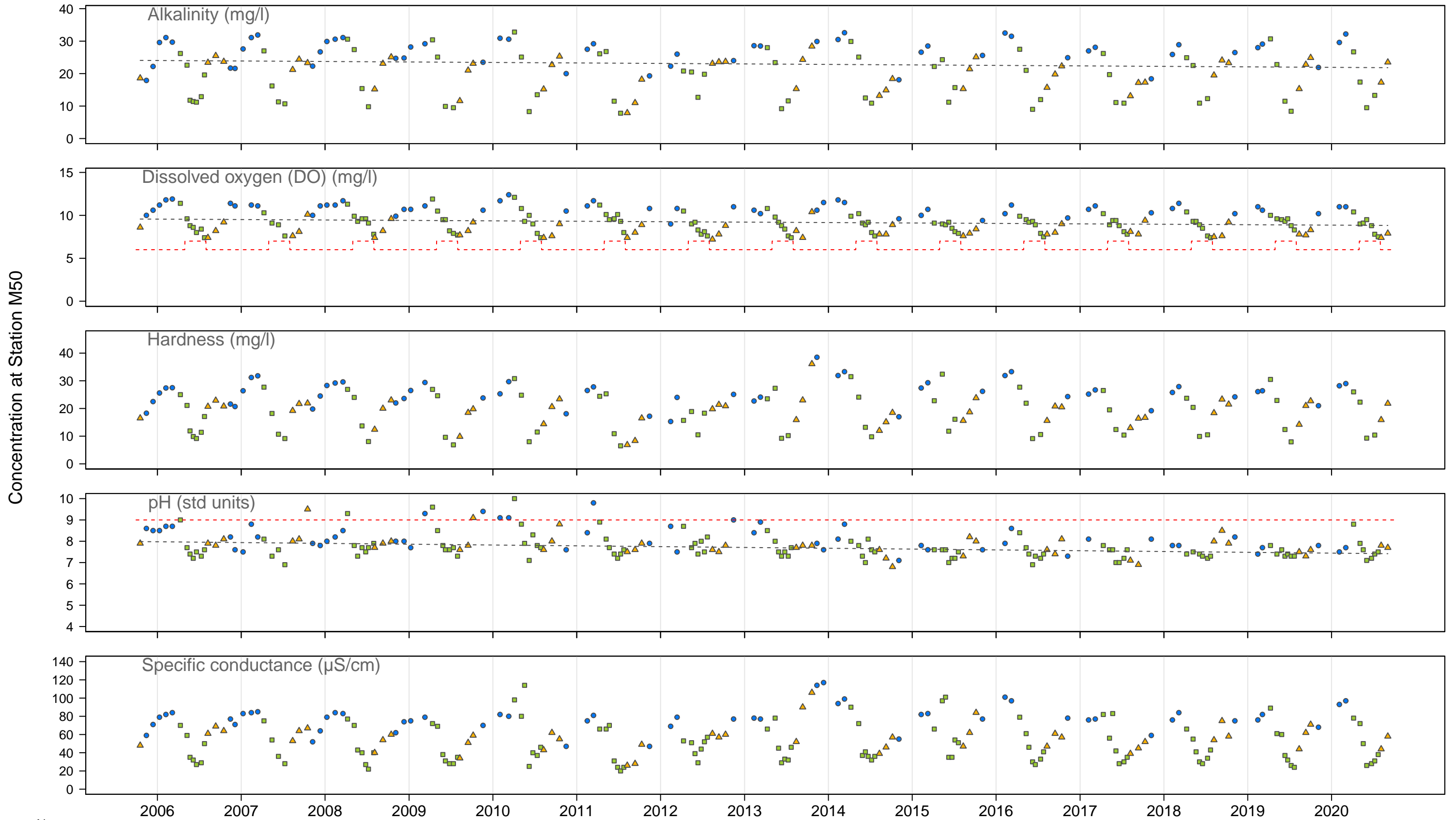


Figure C1-66
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

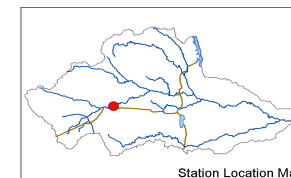
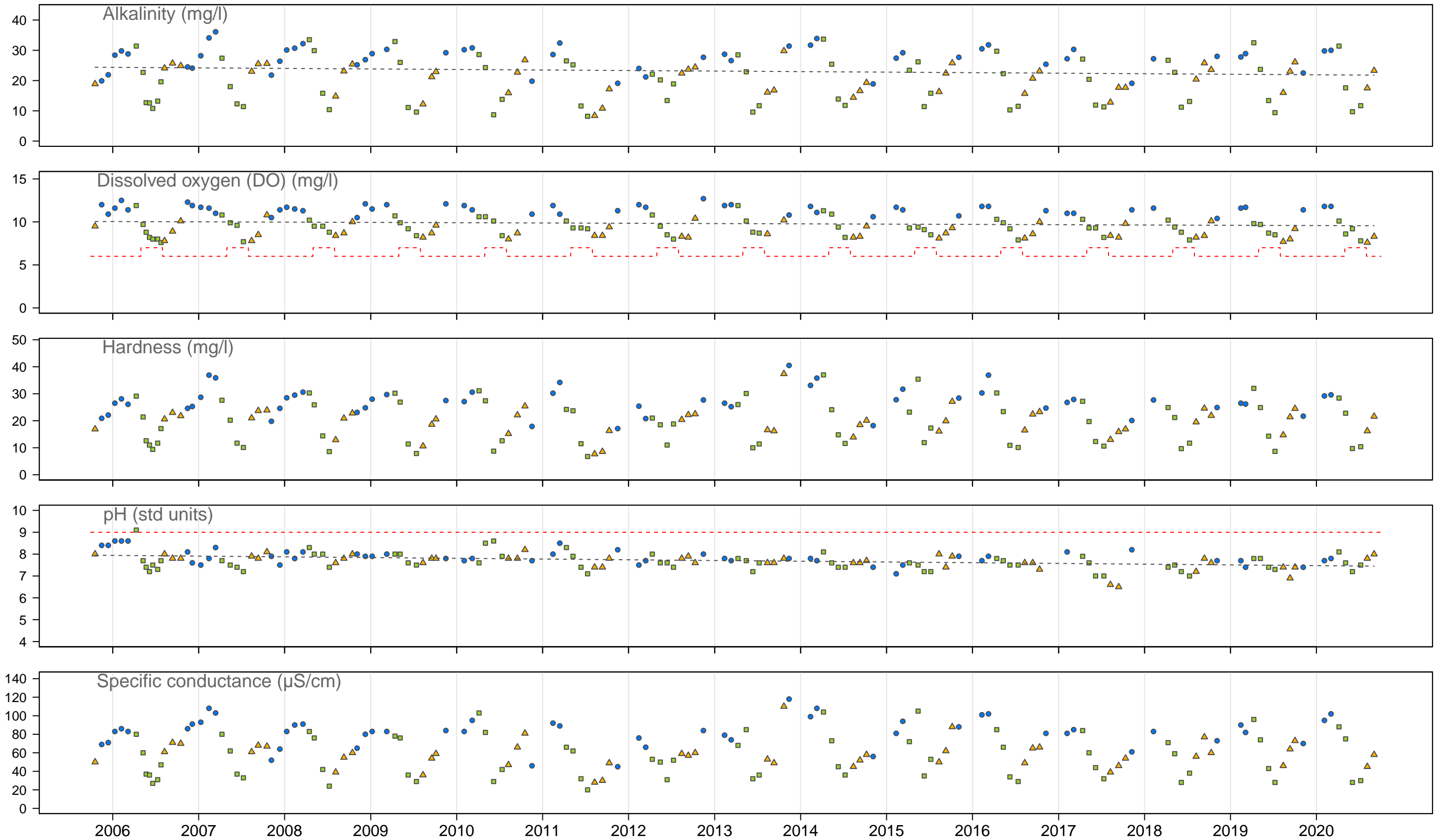


Figure C1-67
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M50

Concentration at Station M60



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

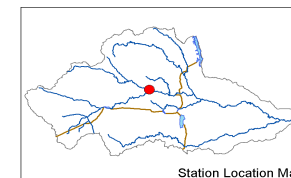
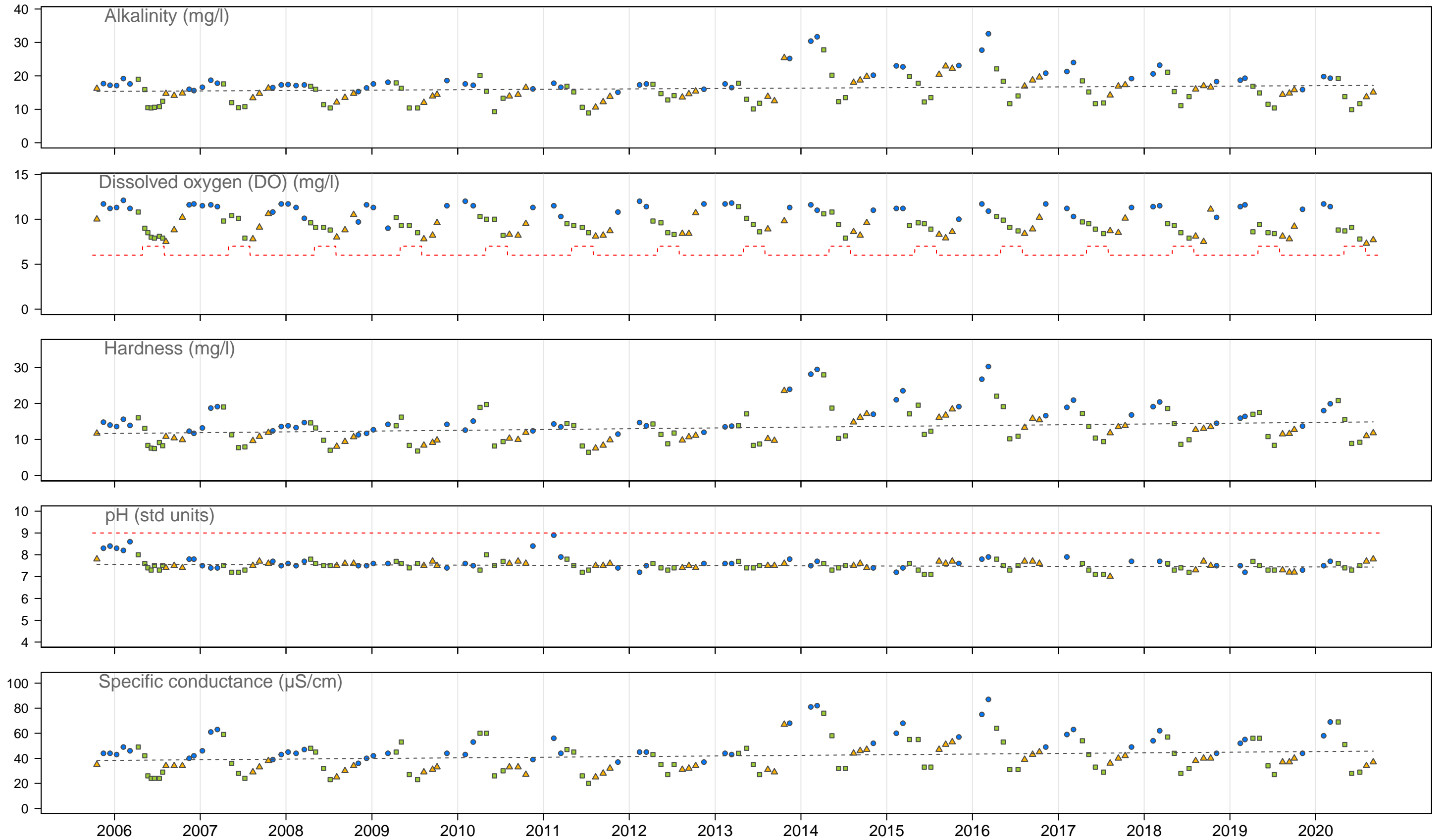


Figure C1-68
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M60

Concentration at Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non-Zero Mann-Kendall Trend

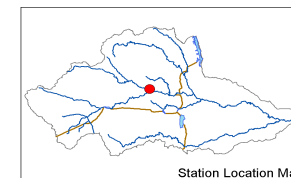
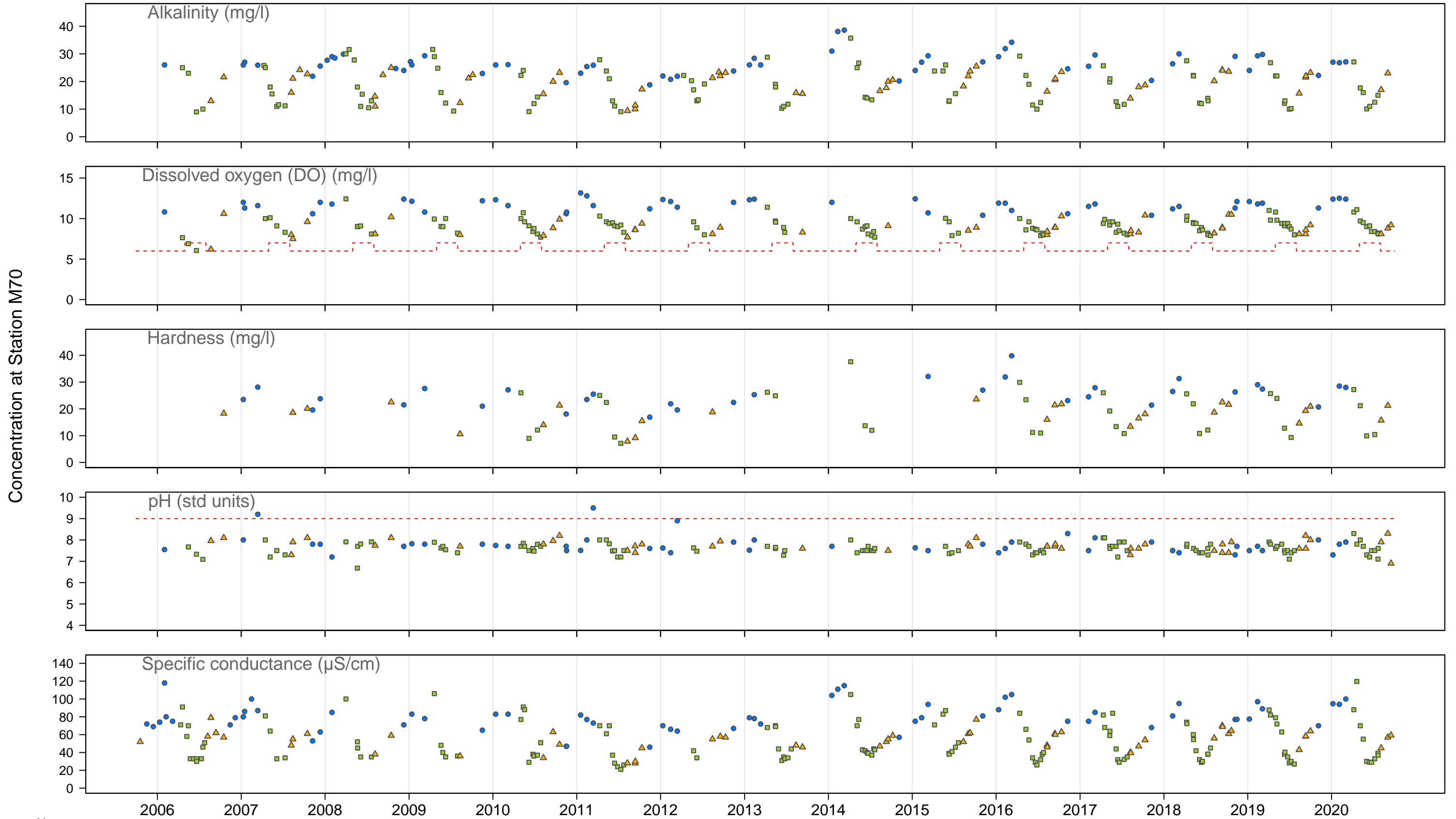


Figure C1-69
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

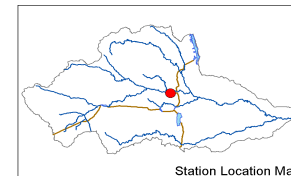
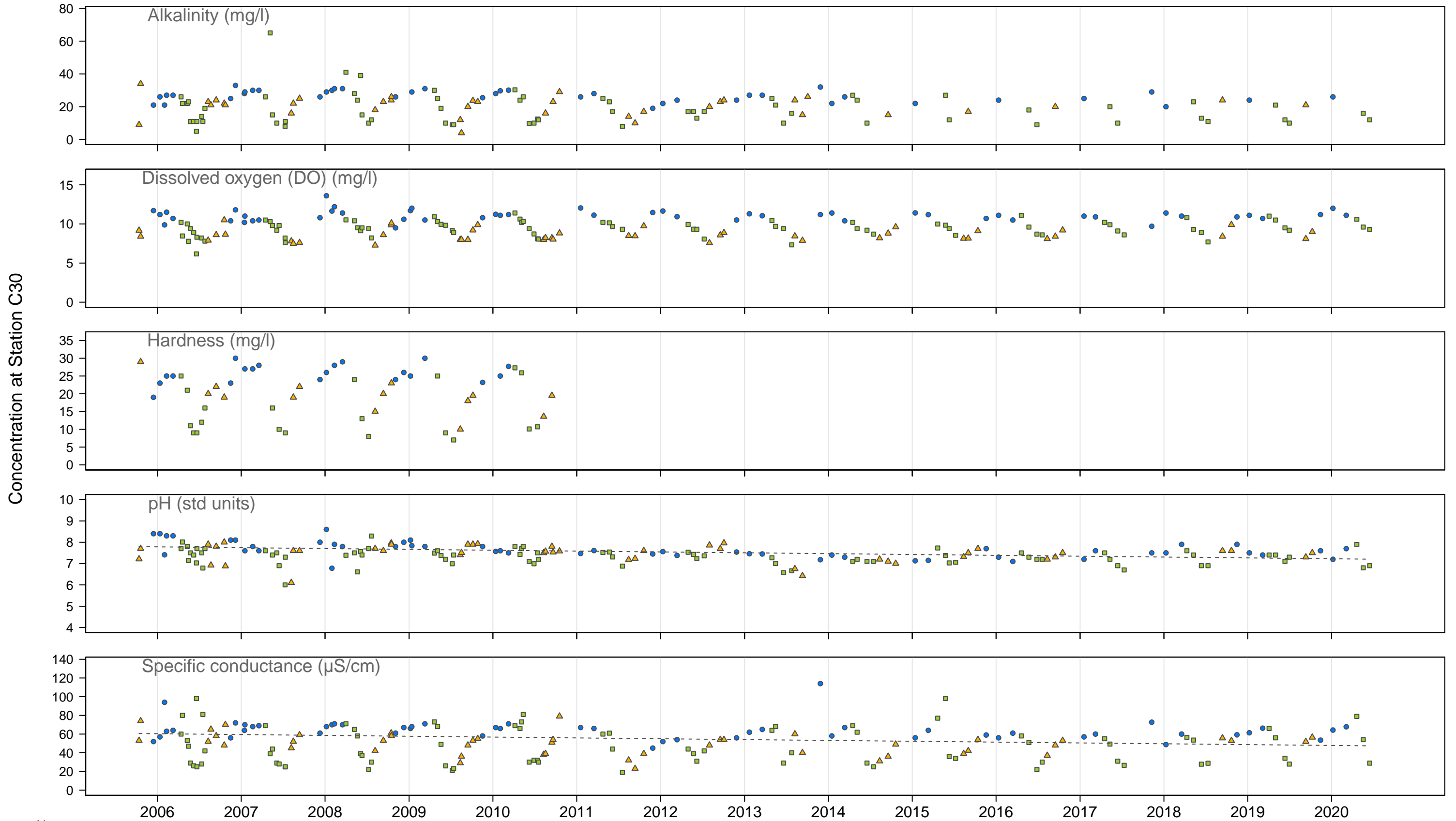


Figure C1-70
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M70



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

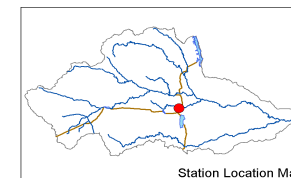
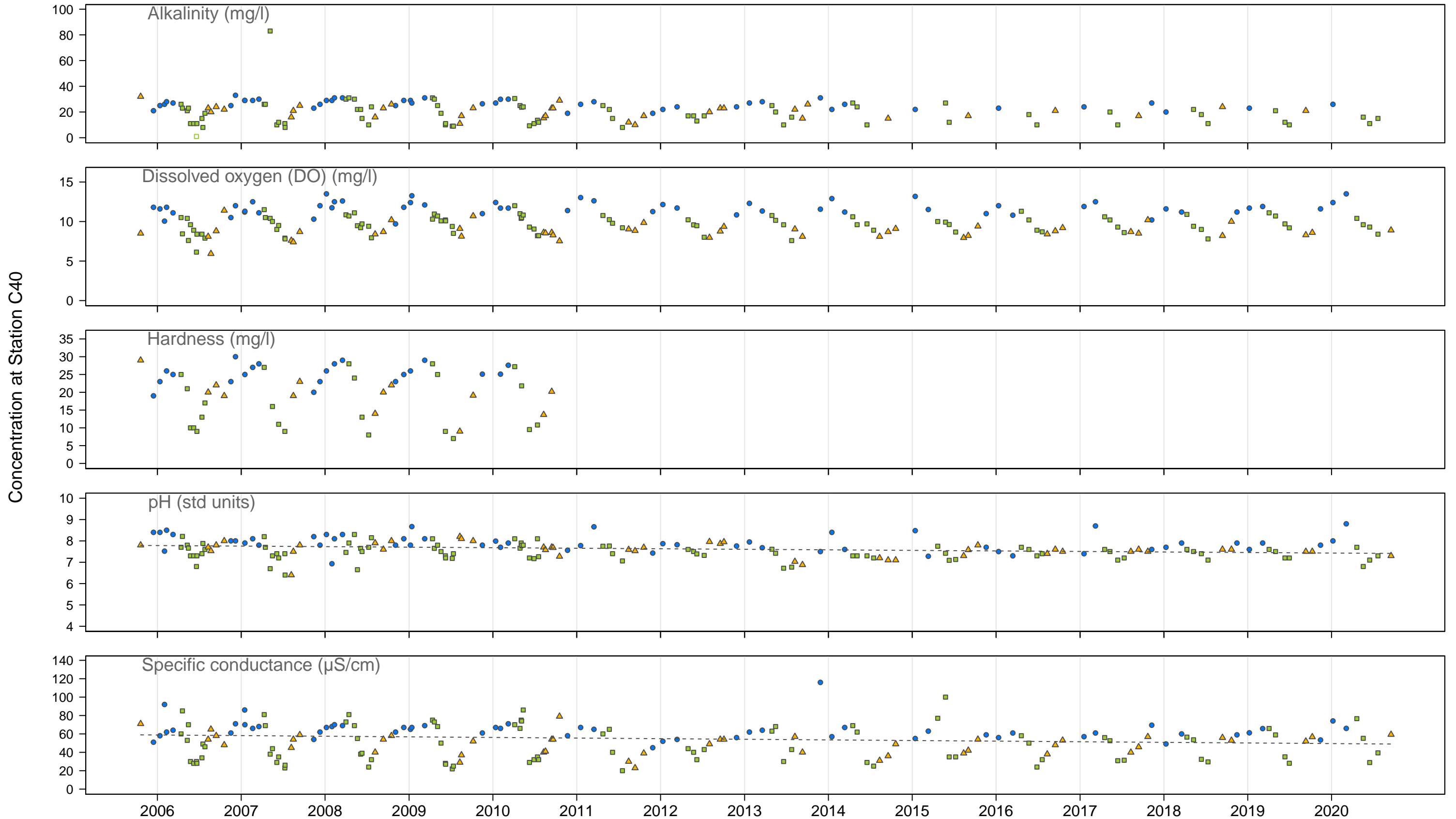


Figure C1-71
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

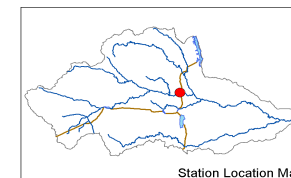
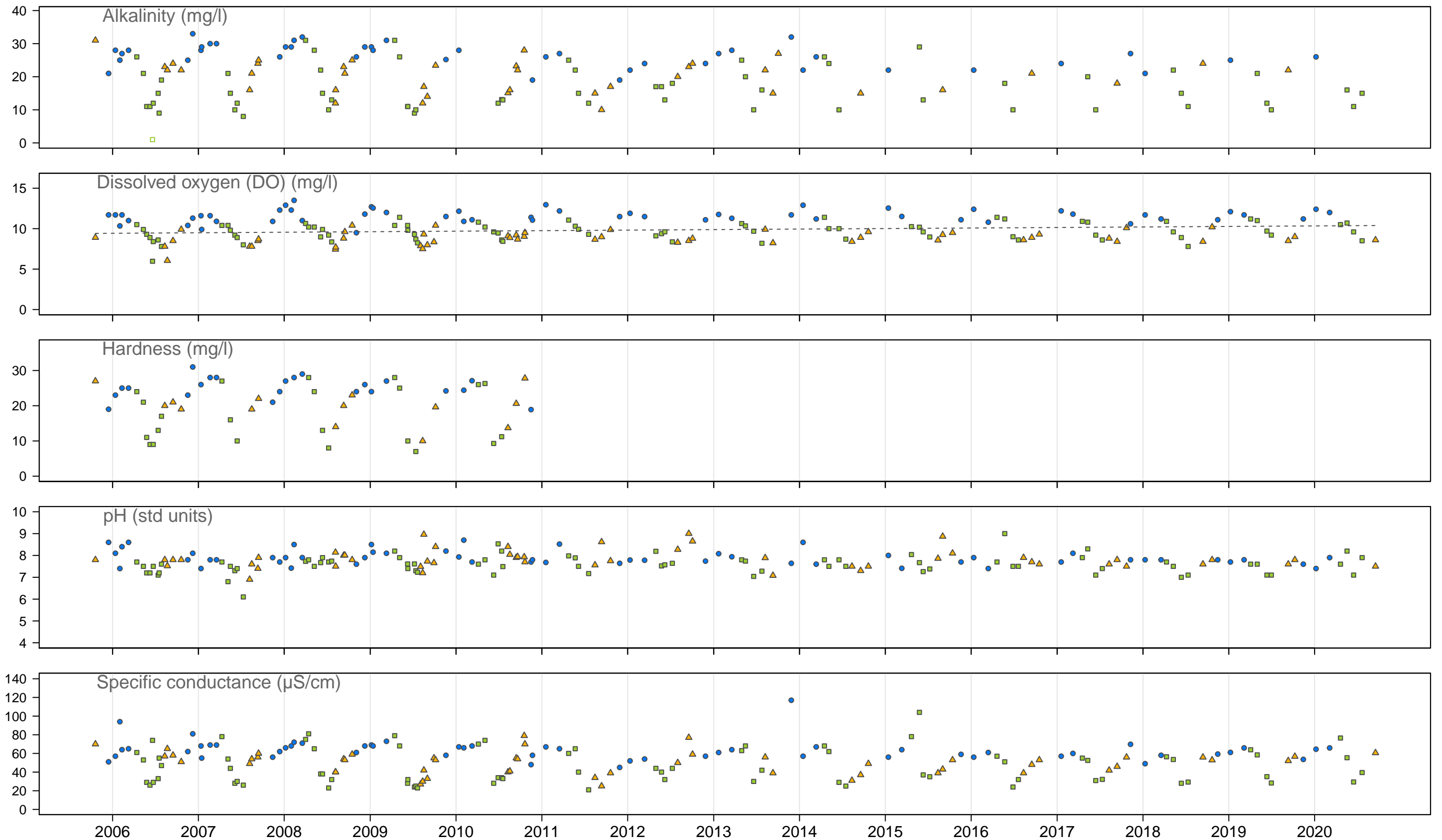


Figure C1-72
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C40

Concentration at Station C50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- Statistically Significant & Non-Zero Mann-Kendall Trend

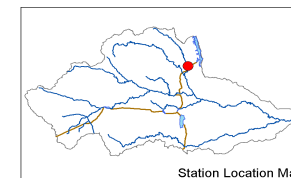
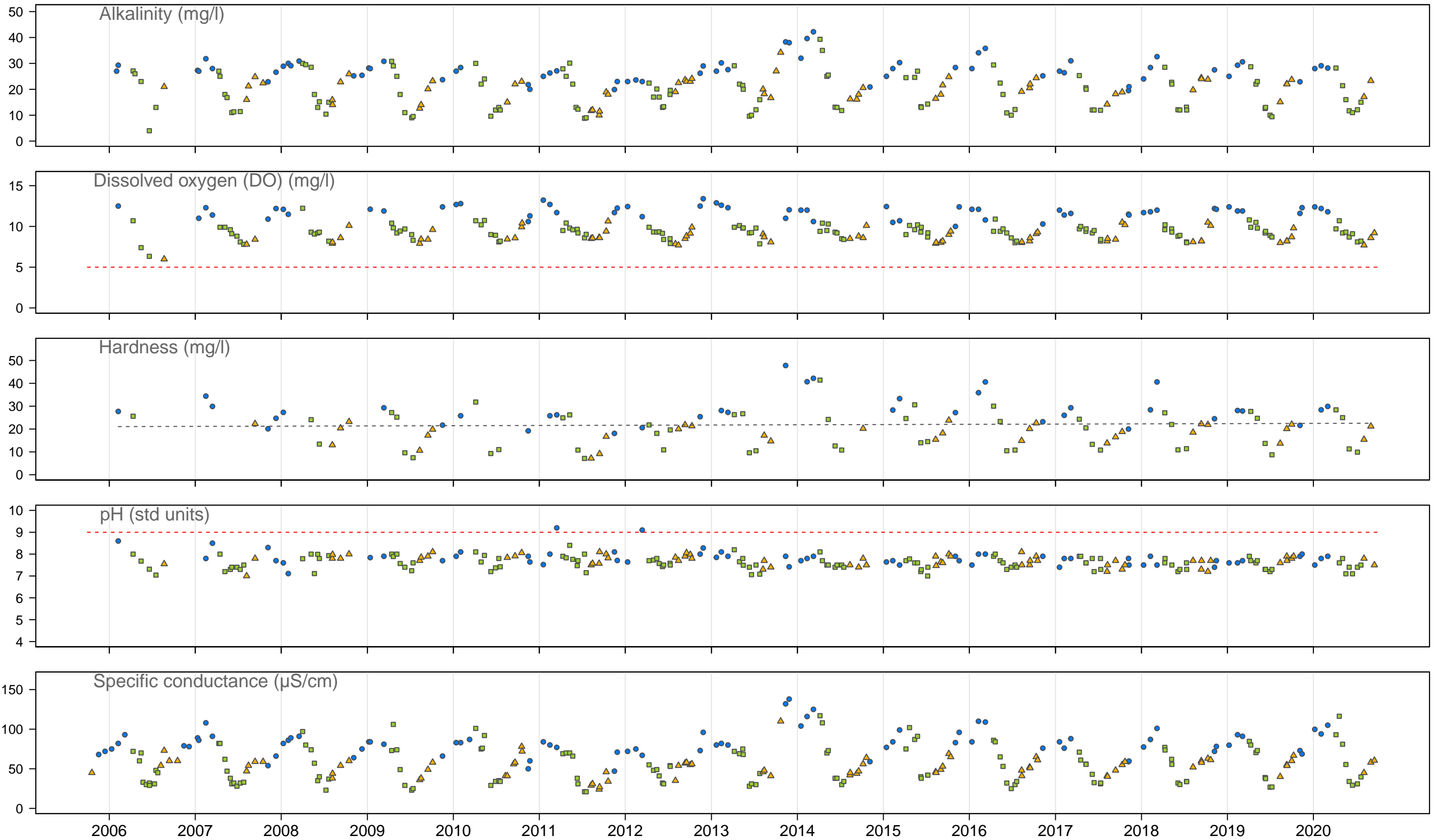


Figure C1-73
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C50

Concentration at Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

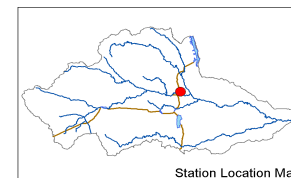
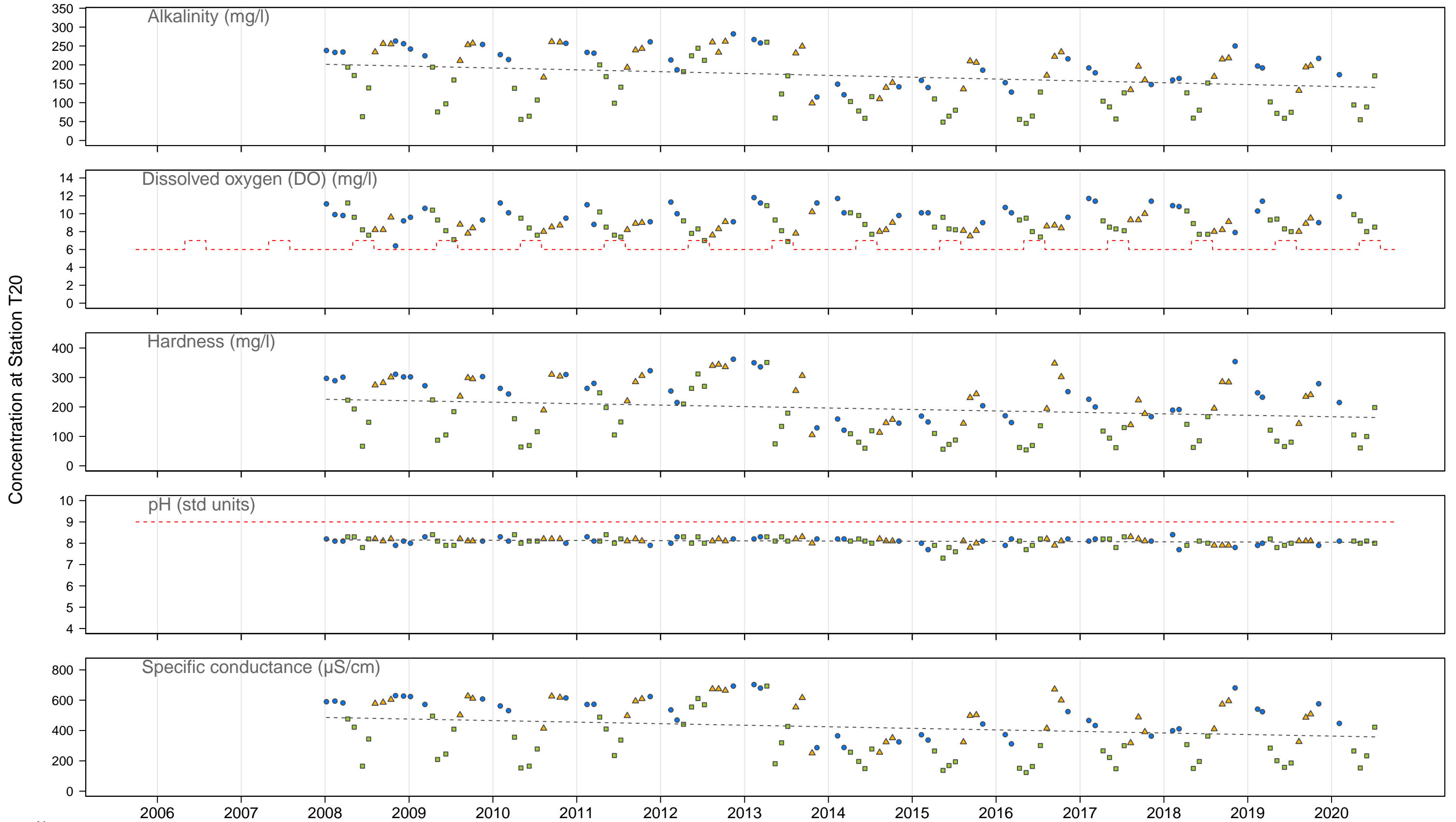


Figure C1-74
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

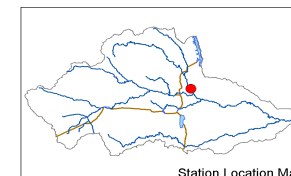
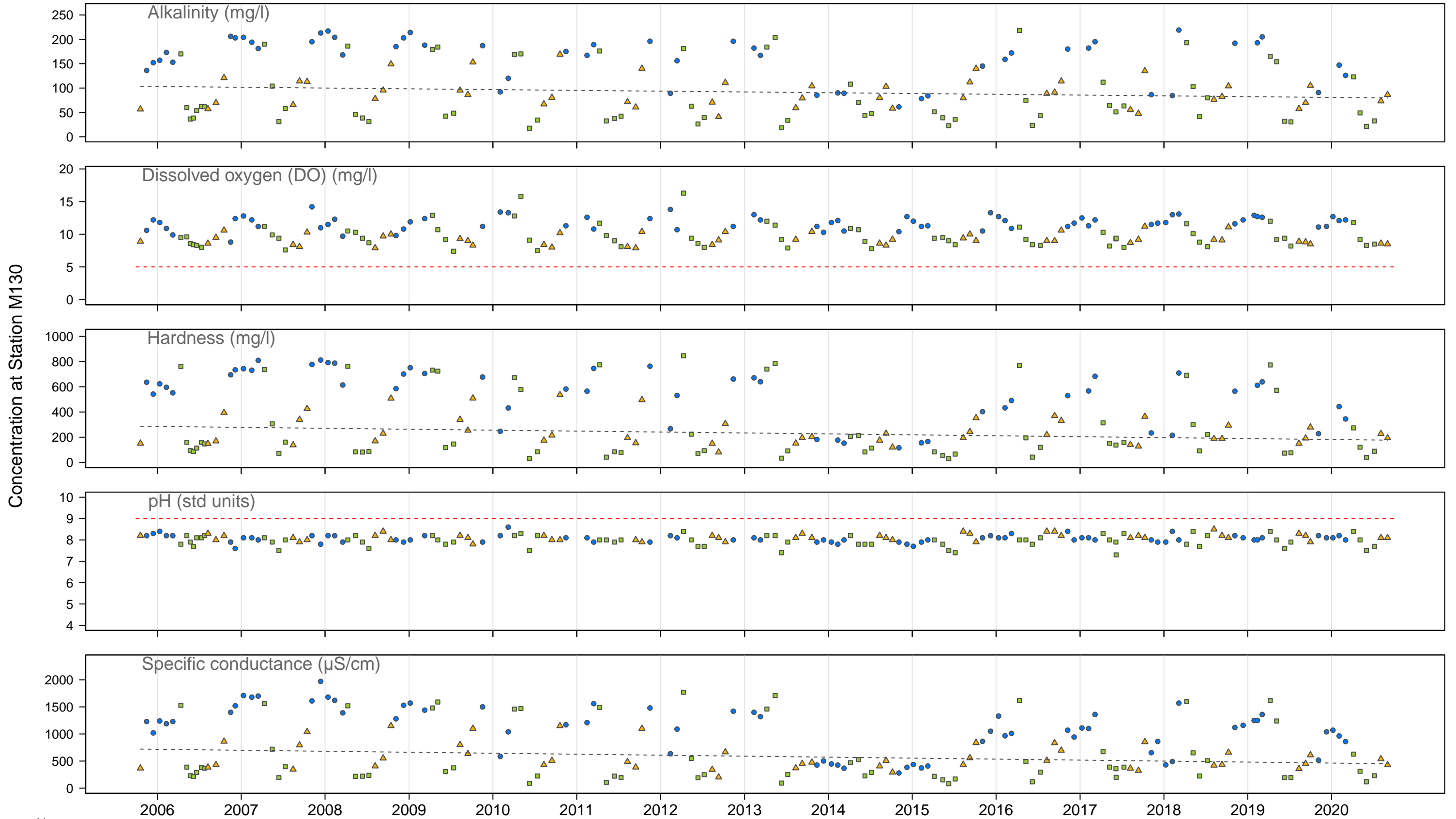


Figure C1-75
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- Statistically Significant & Non-Zero Mann-Kendall Trend

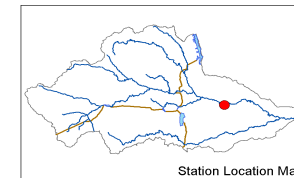
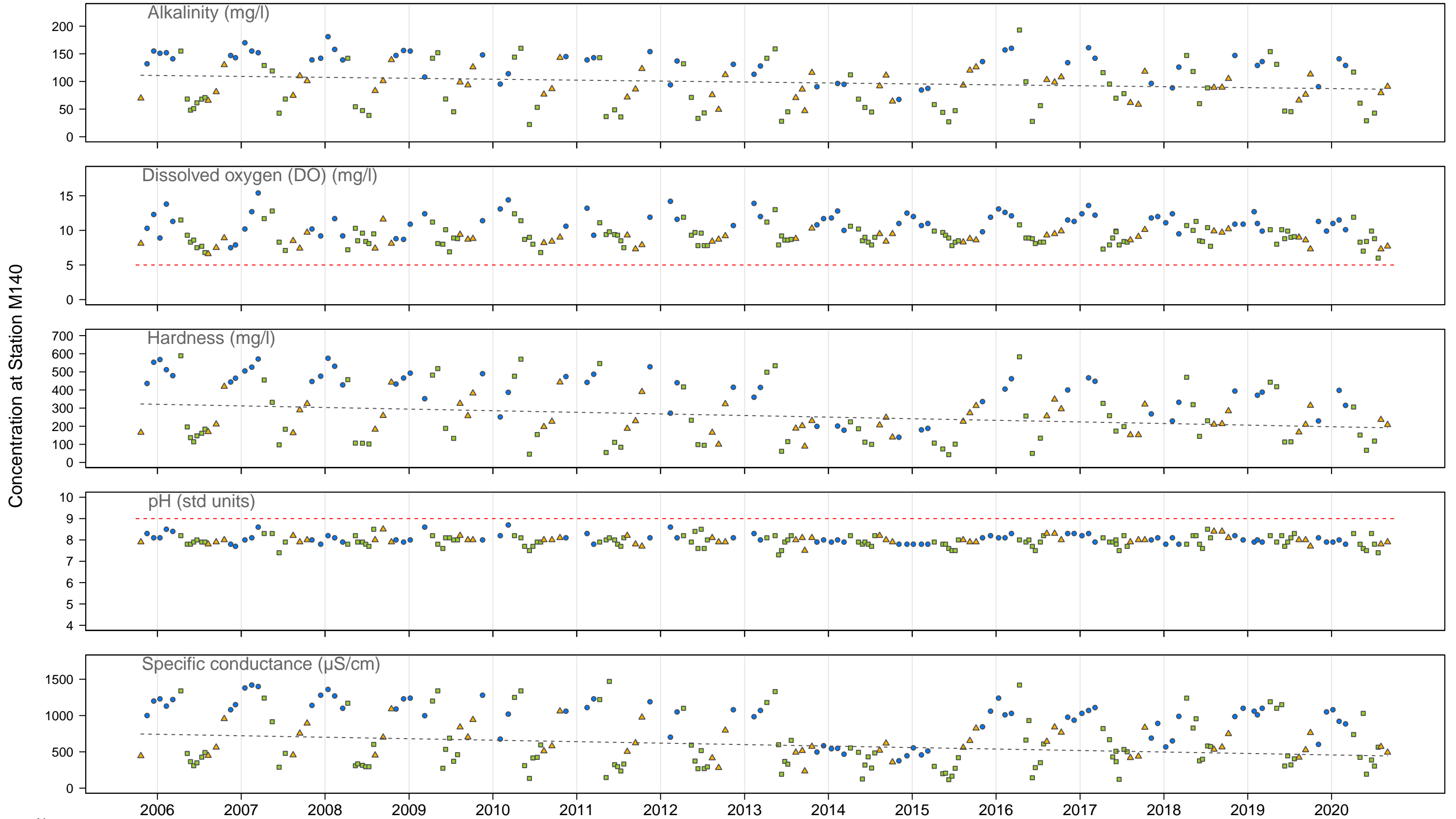


Figure C1-76
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M130



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

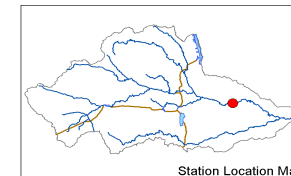
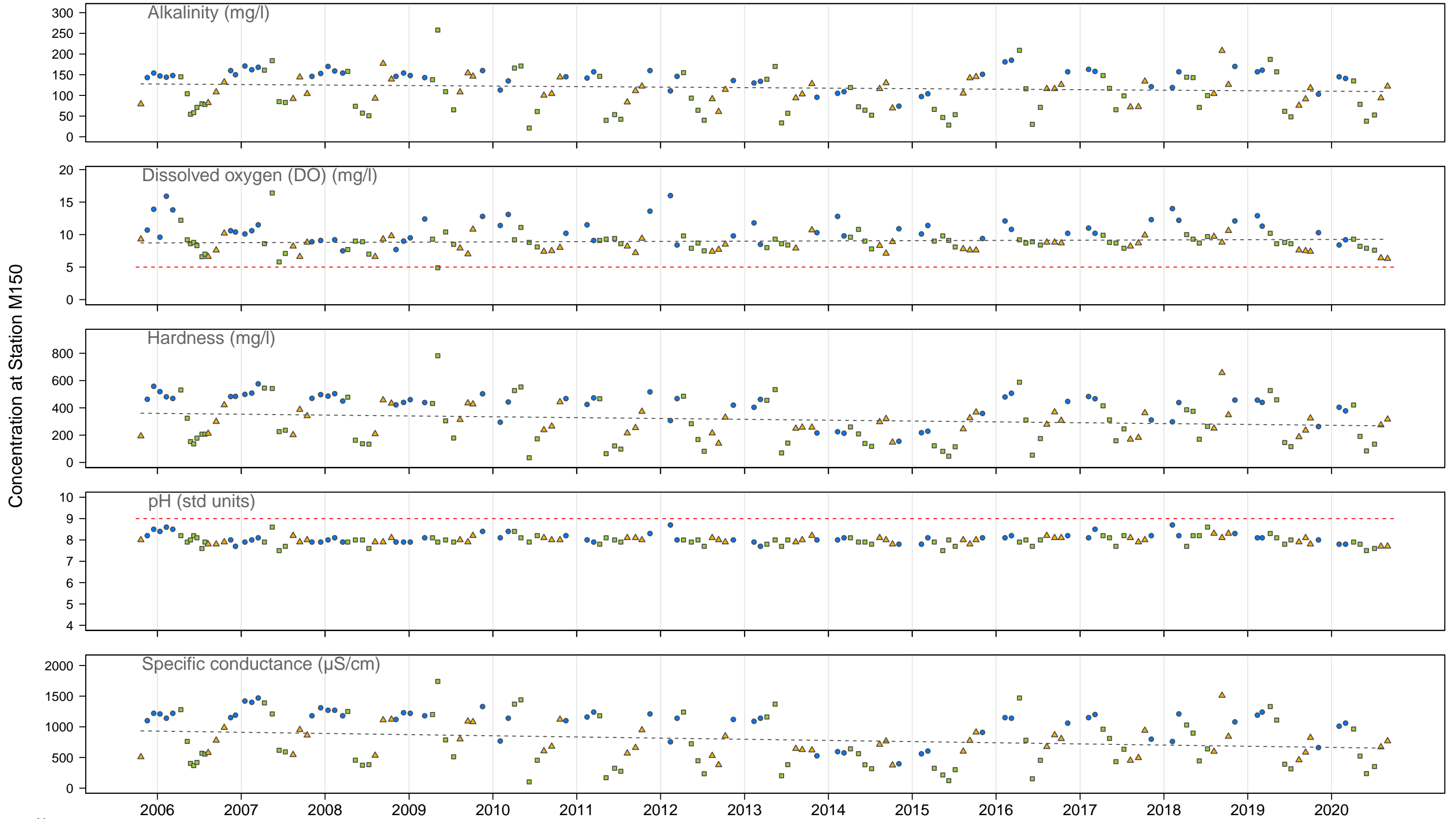


Figure C1-77
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M140



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- Statistically Significant & Non-Zero Mann-Kendall Trend

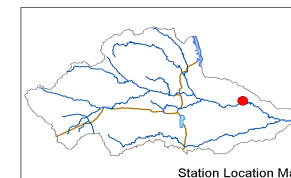
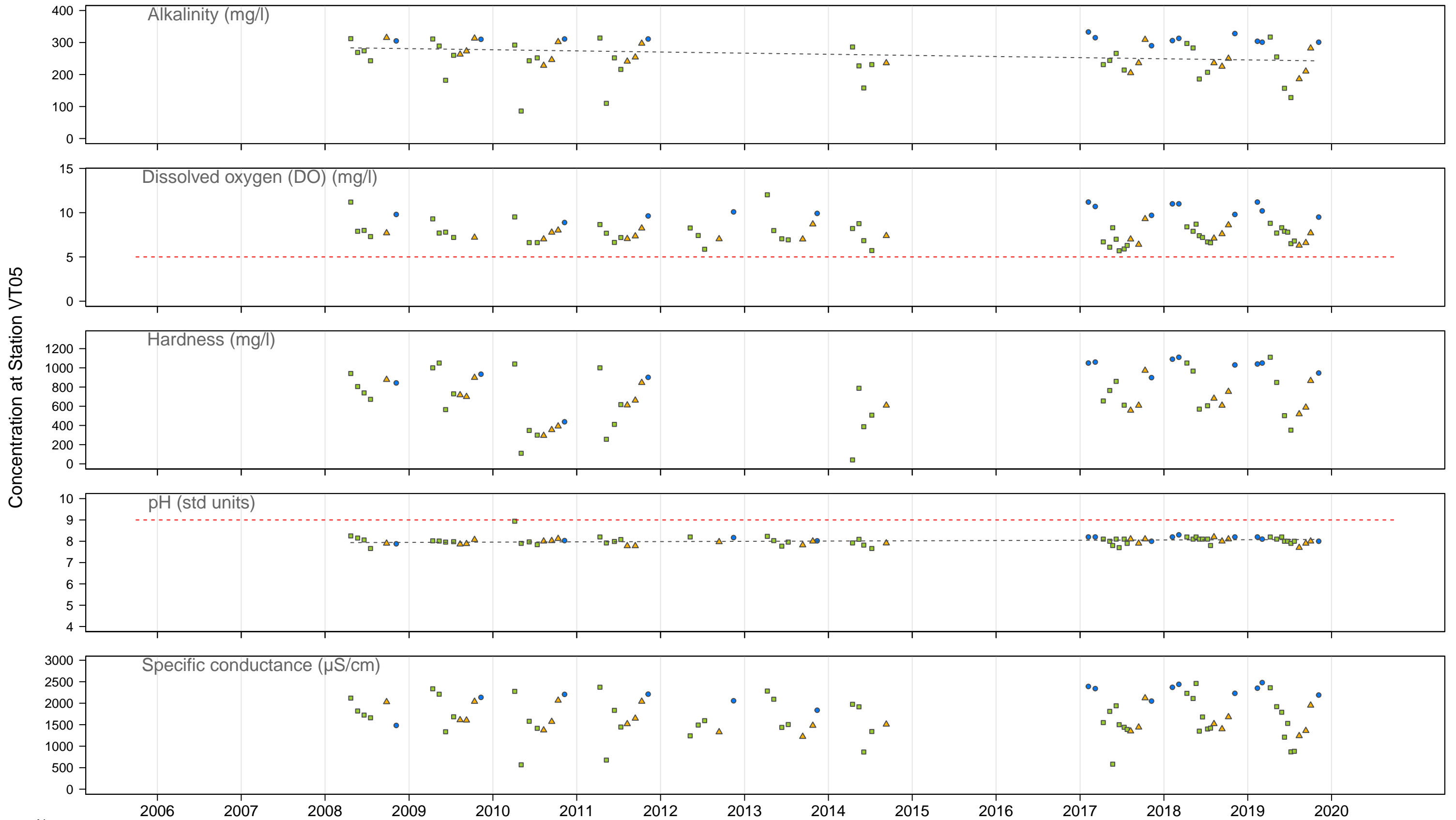


Figure C1-78
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M150



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

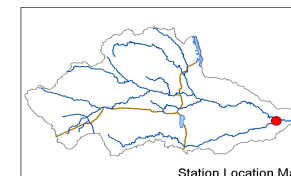
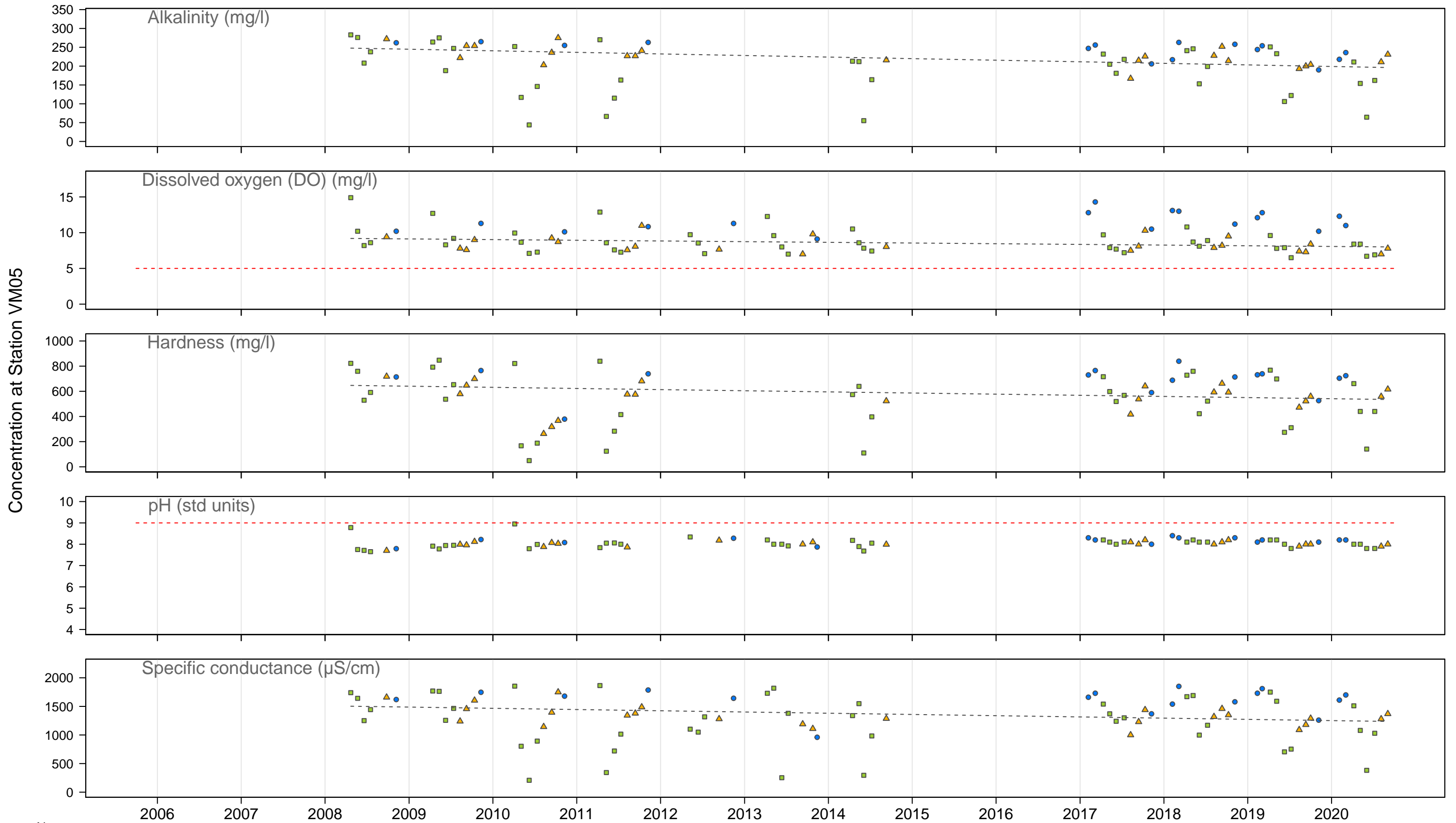


Figure C1-79
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VT05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

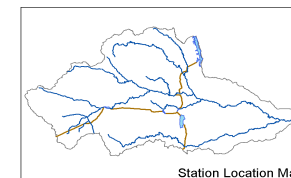
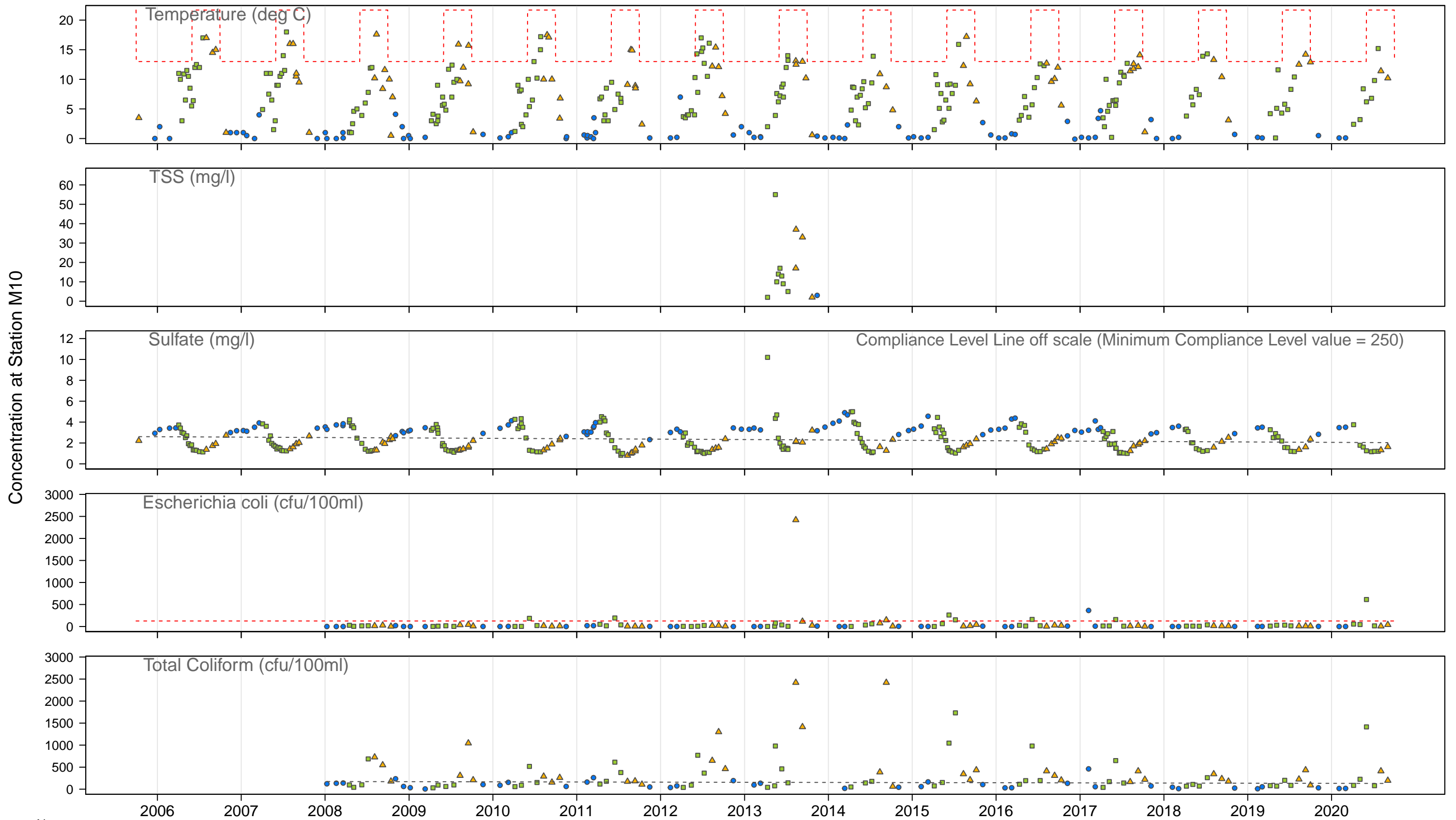


Figure C1-80
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VM05



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

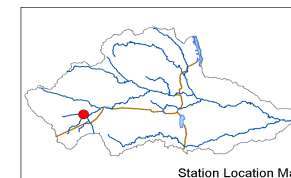
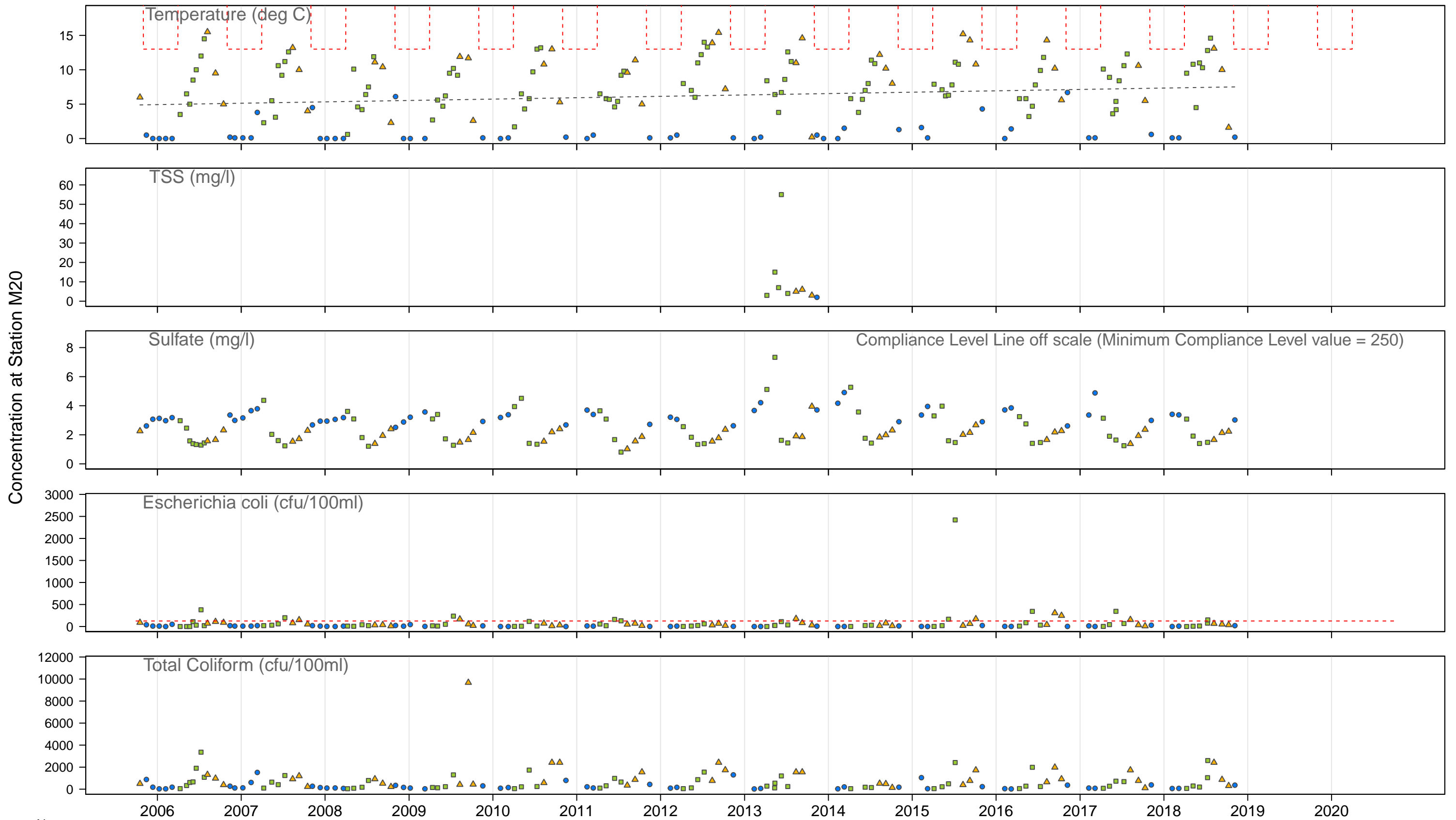


Figure C1-81
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

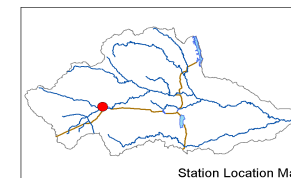
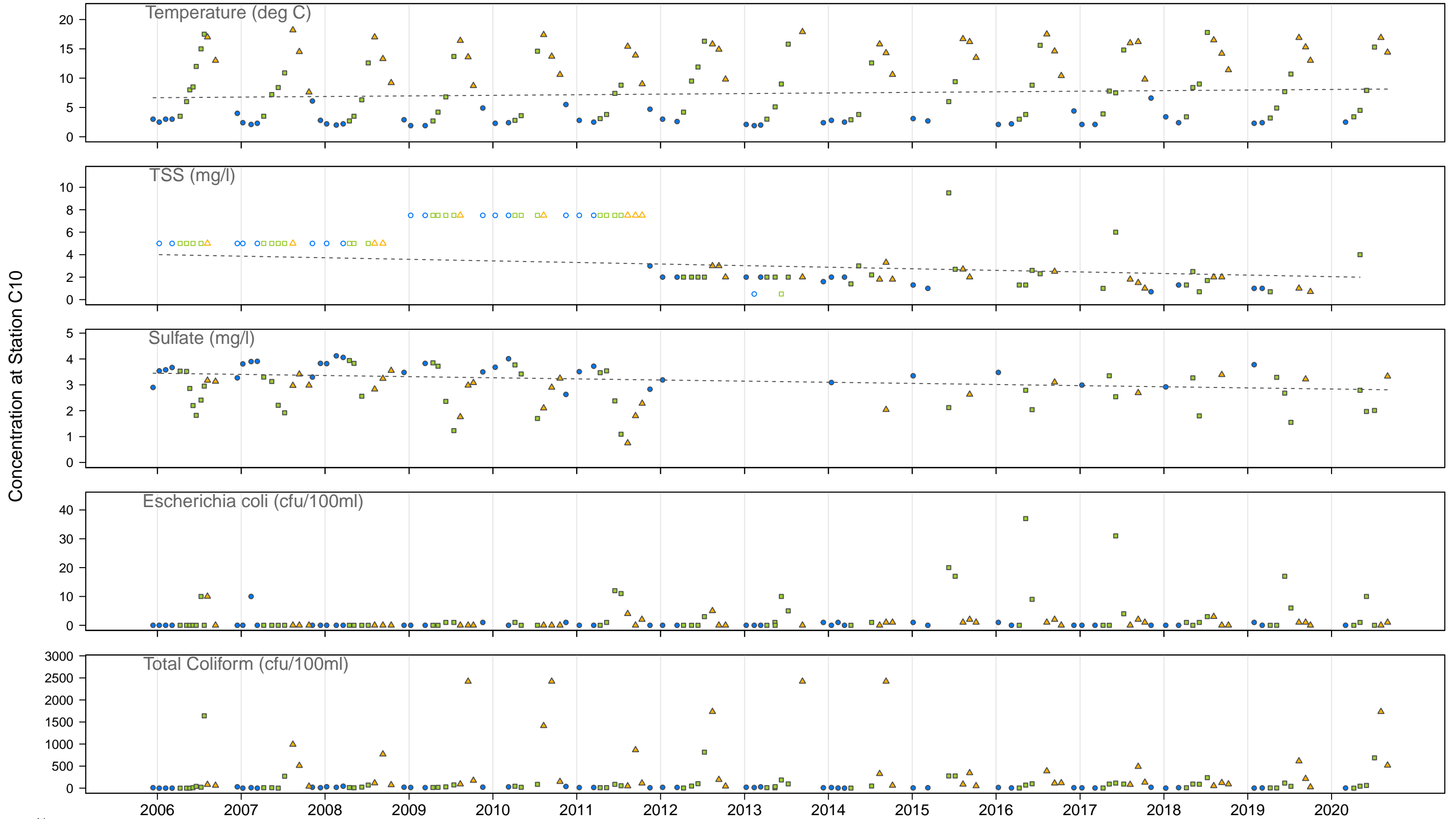


Figure C1-82
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M20



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

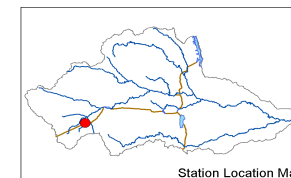
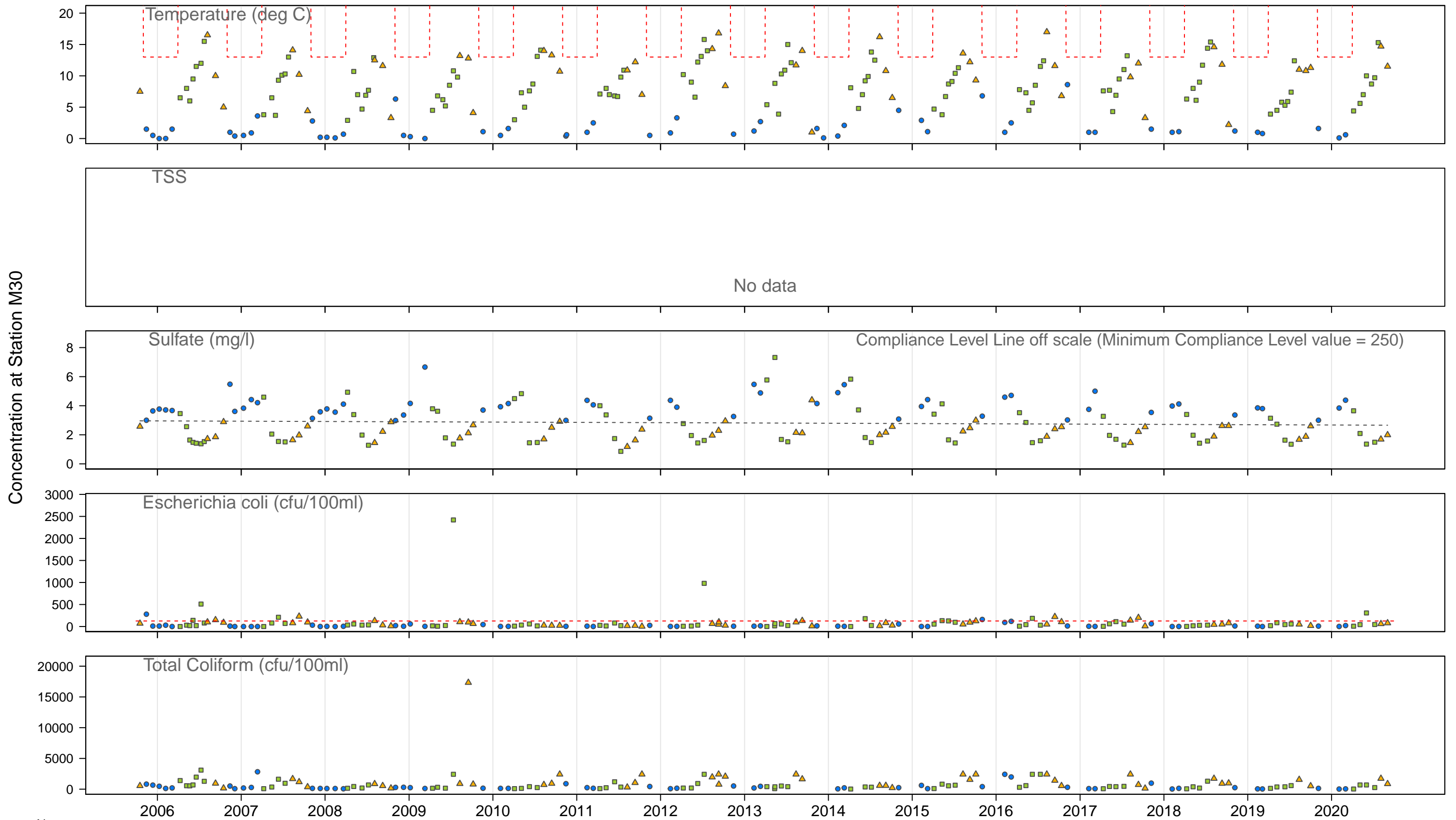


Figure C1-83
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C10



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non–Zero Mann–Kendall Trend

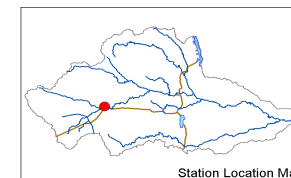
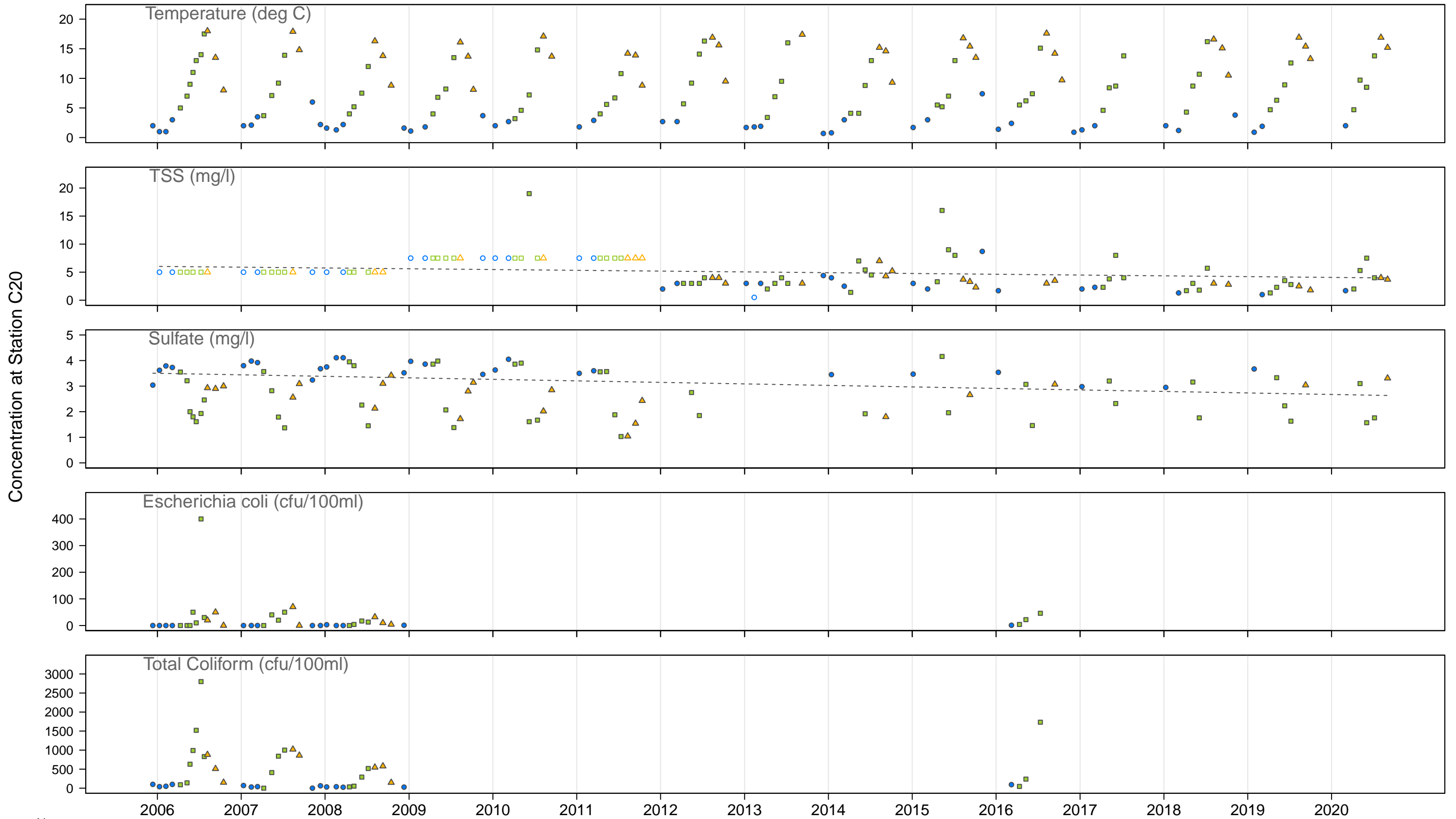


Figure C1–84
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

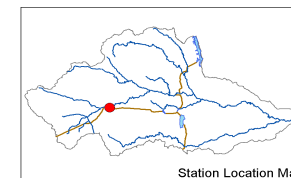
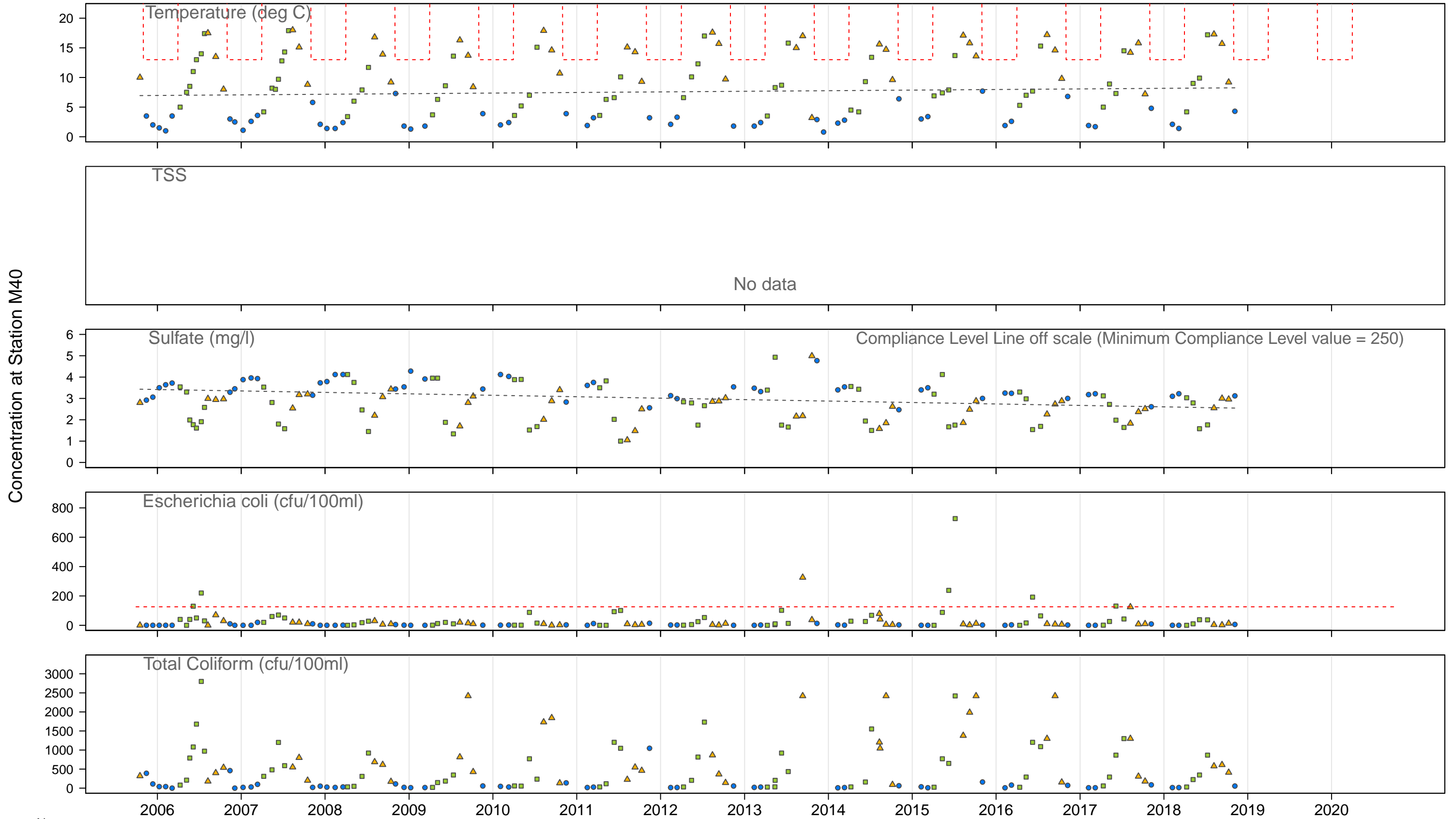


Figure C1-85
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C20



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non–Zero Mann–Kendall Trend

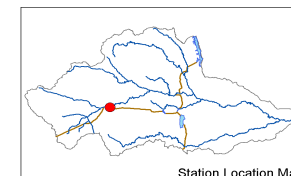
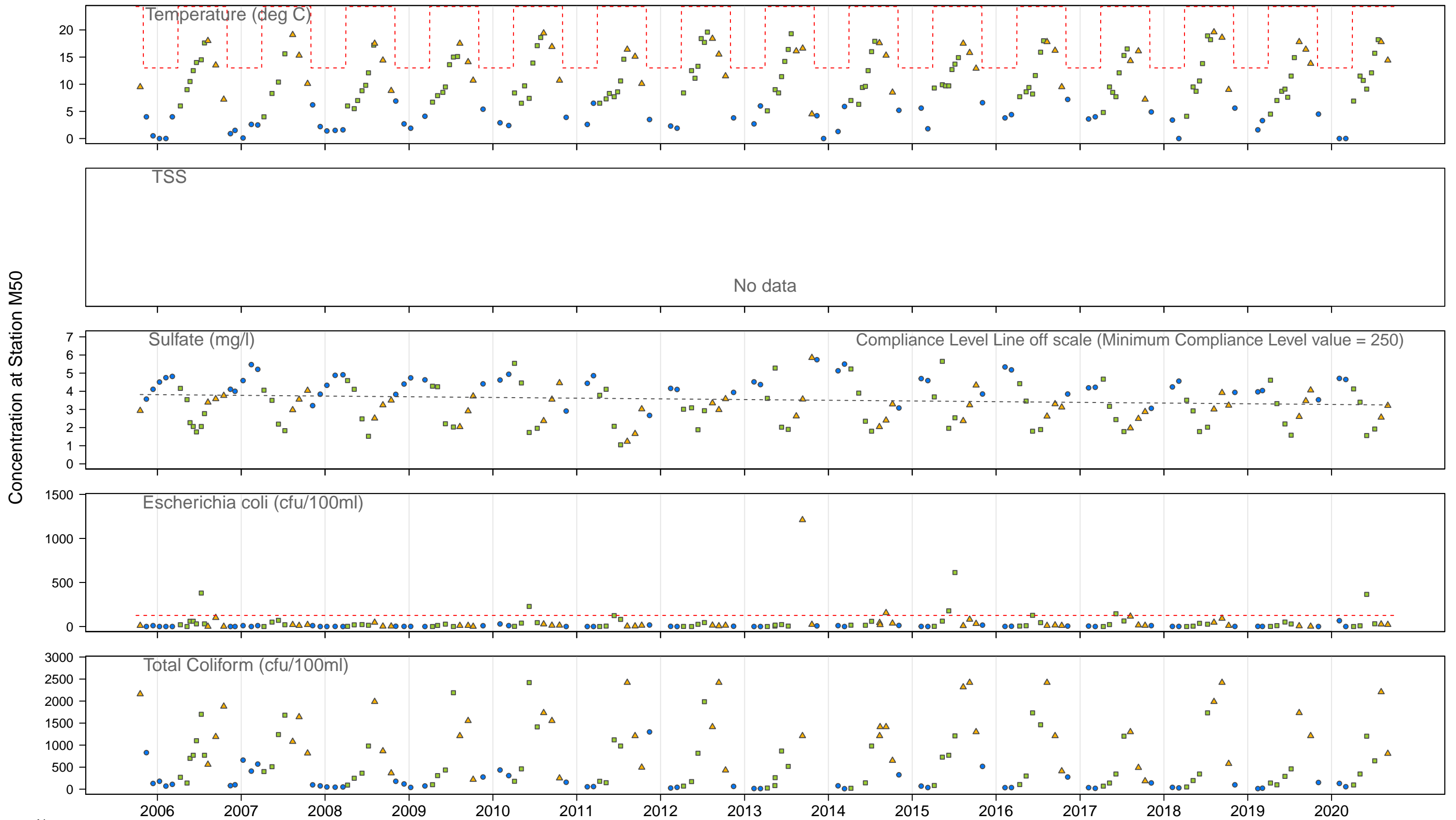


Figure C1–86
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station M40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

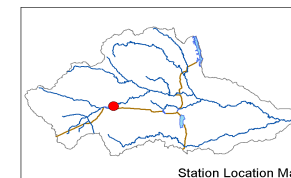
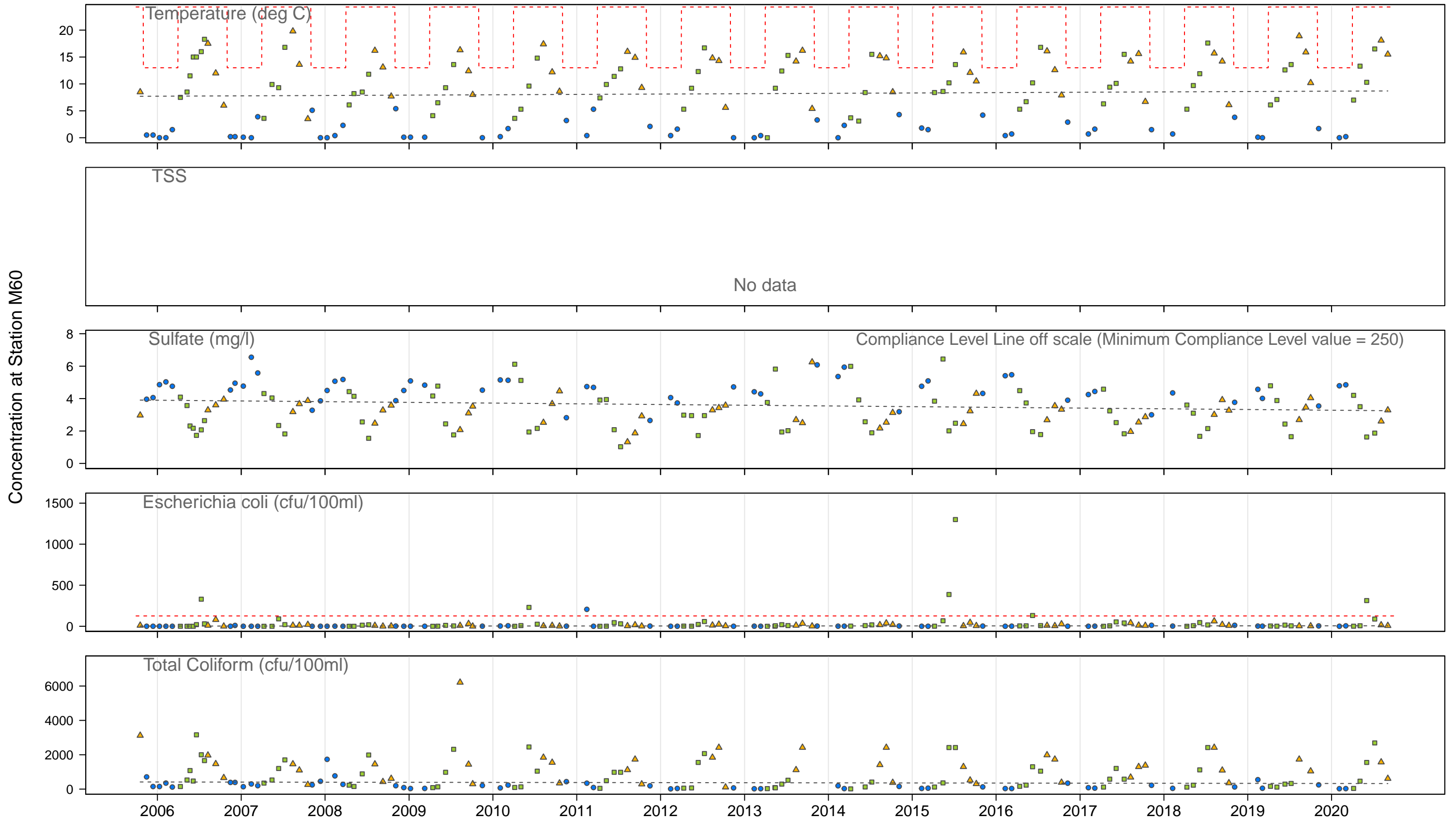


Figure C1-87
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

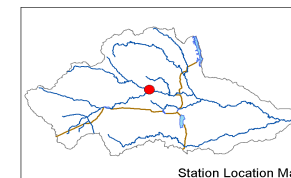
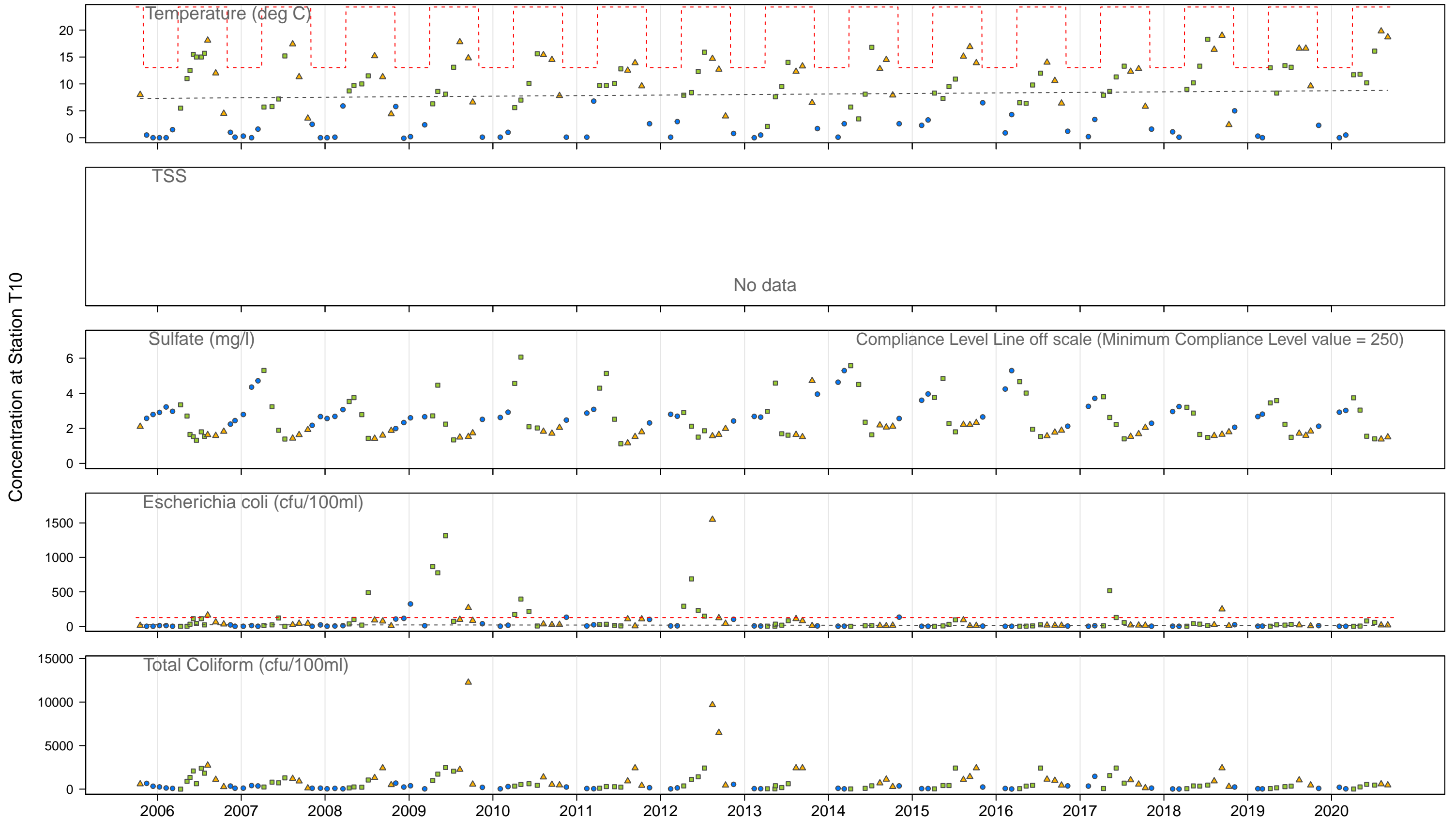


Figure C1-88
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M60



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

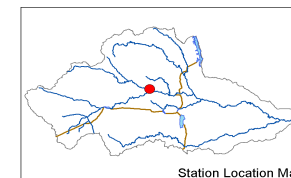
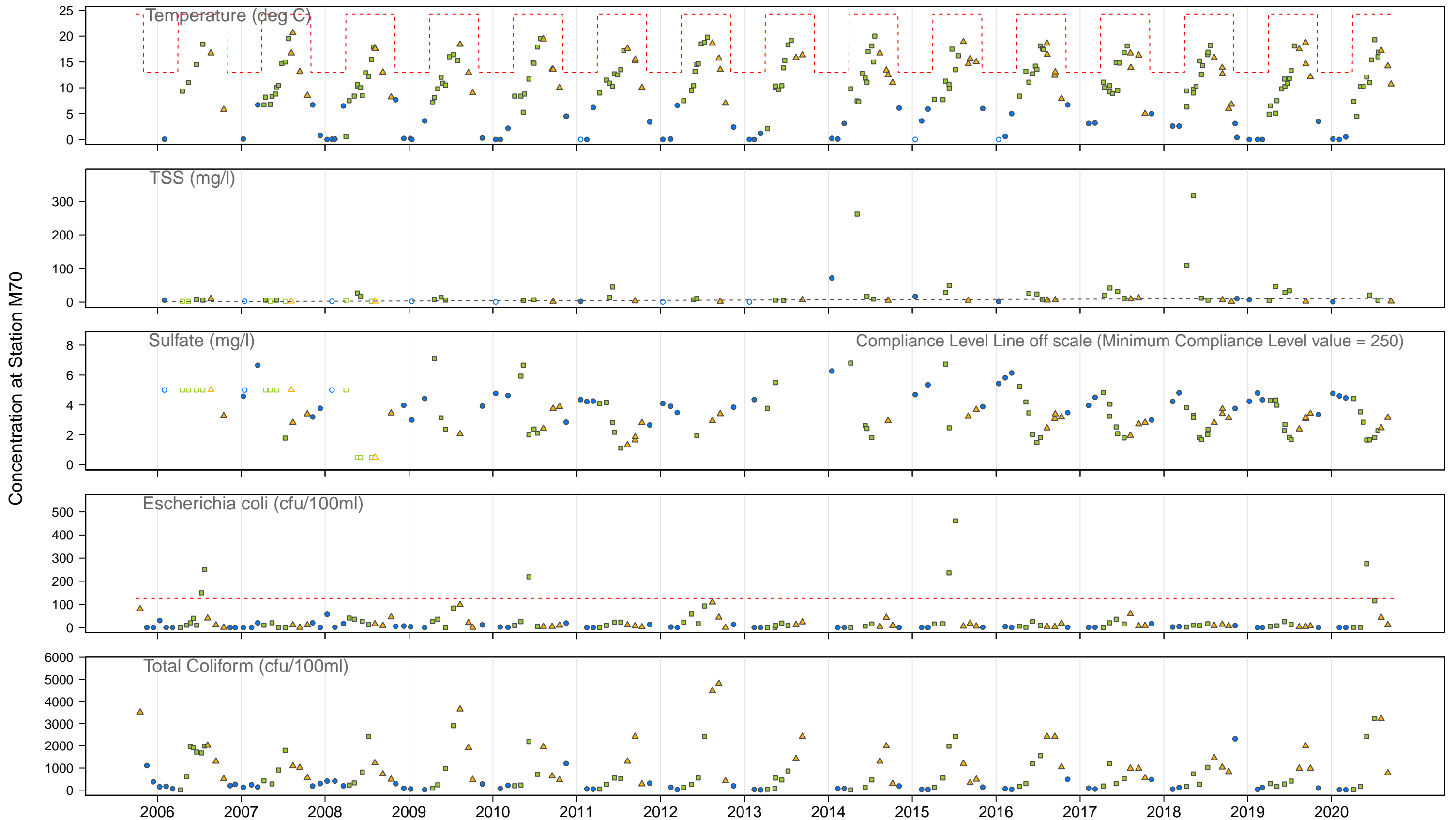


Figure C1-89
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T10



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

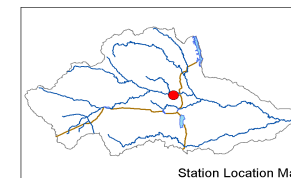
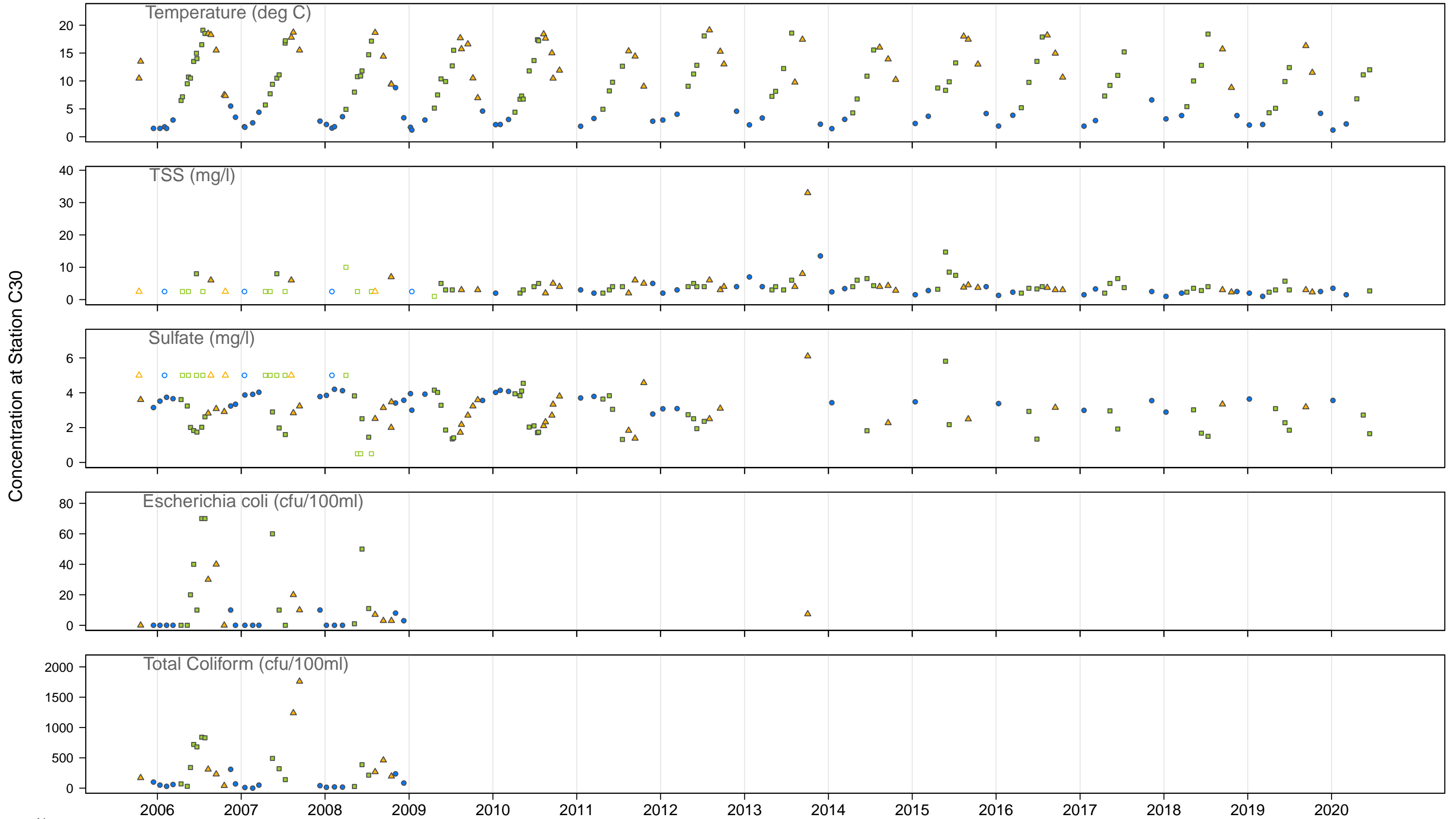


Figure C1-90
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M70



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

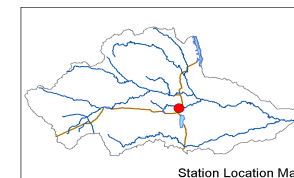
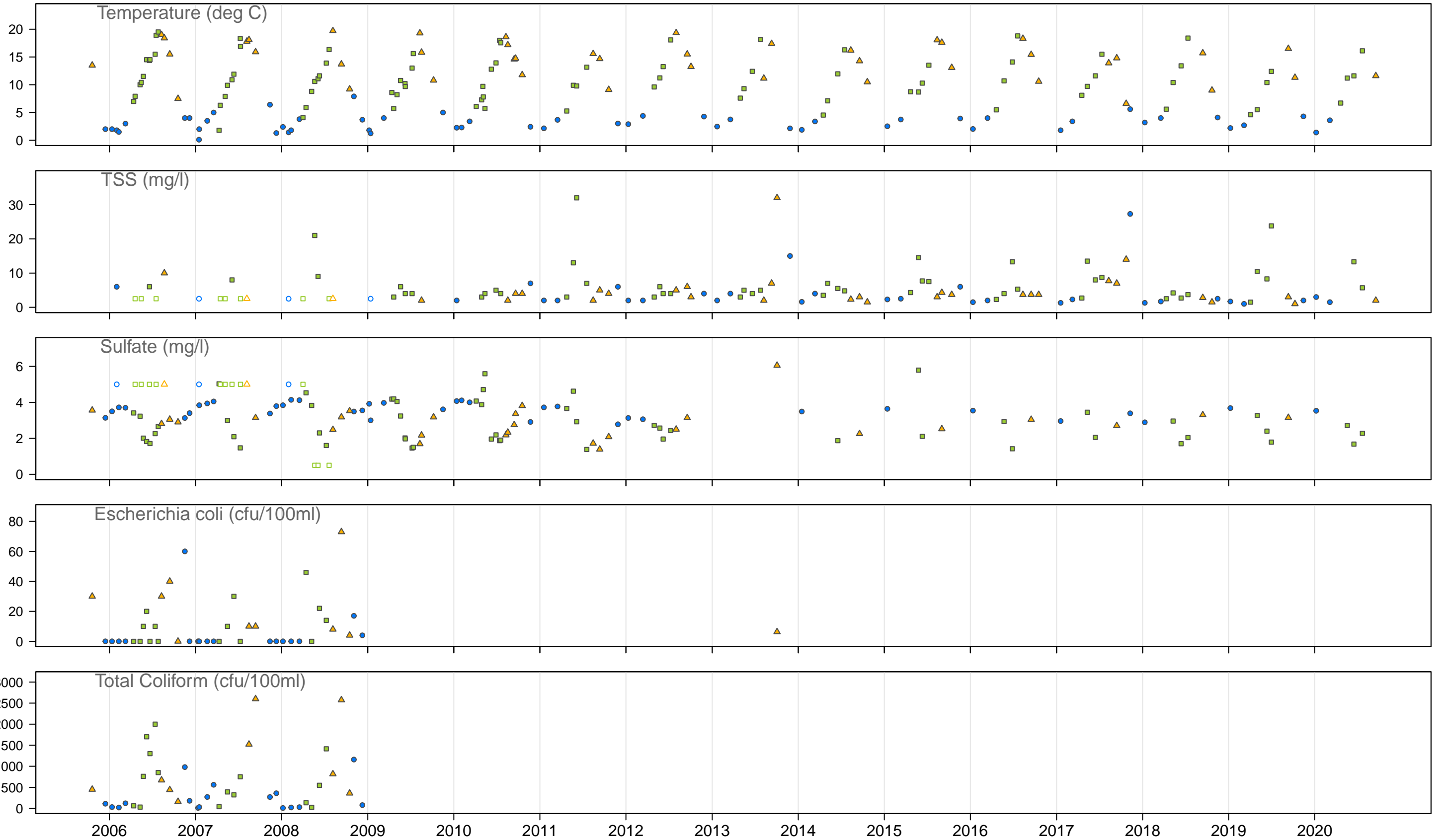


Figure C1-91
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C30



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

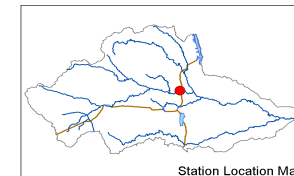
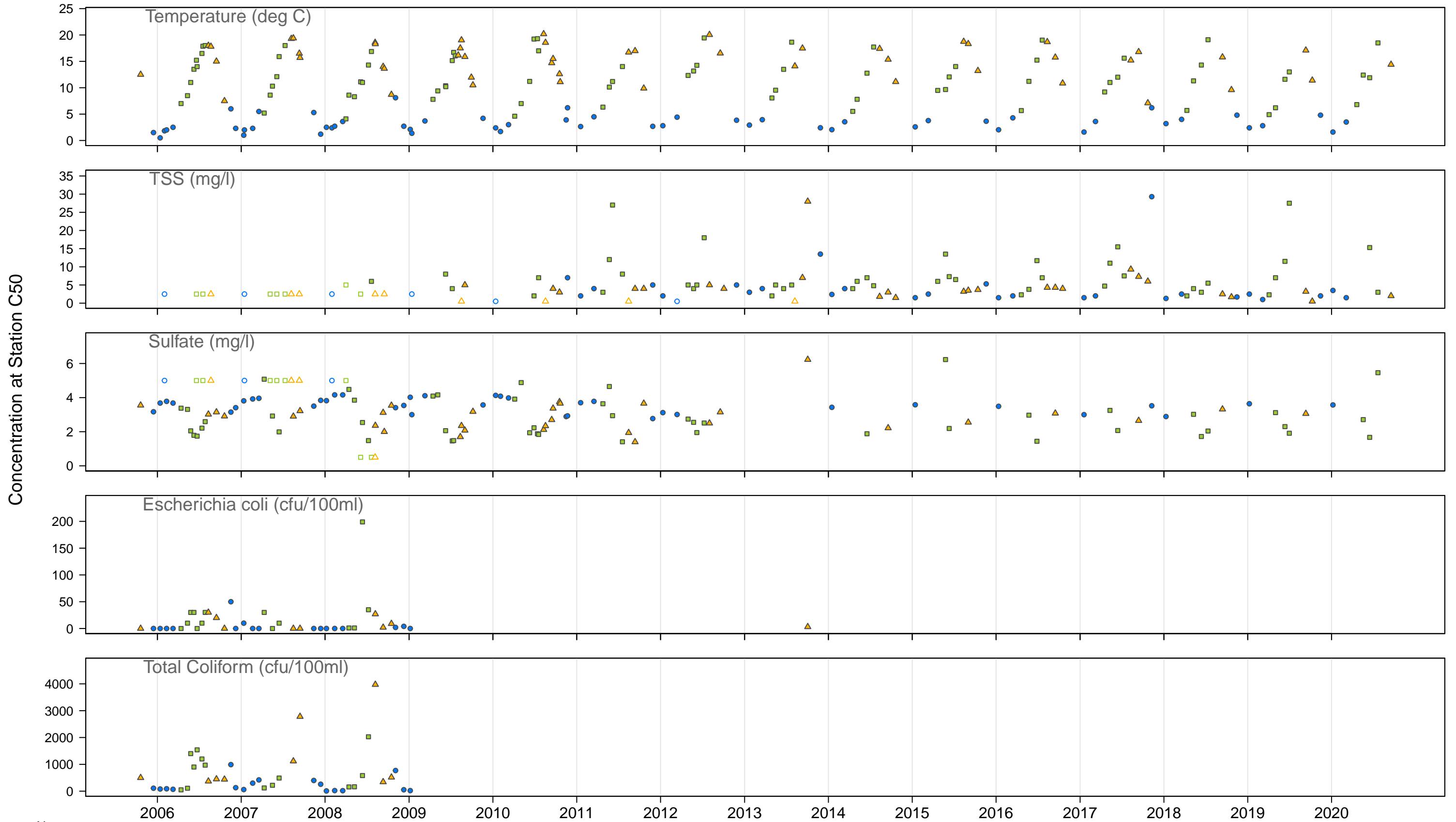


Figure C1-92
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C40



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

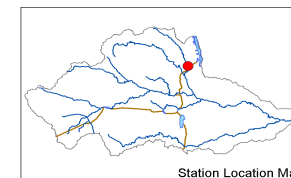
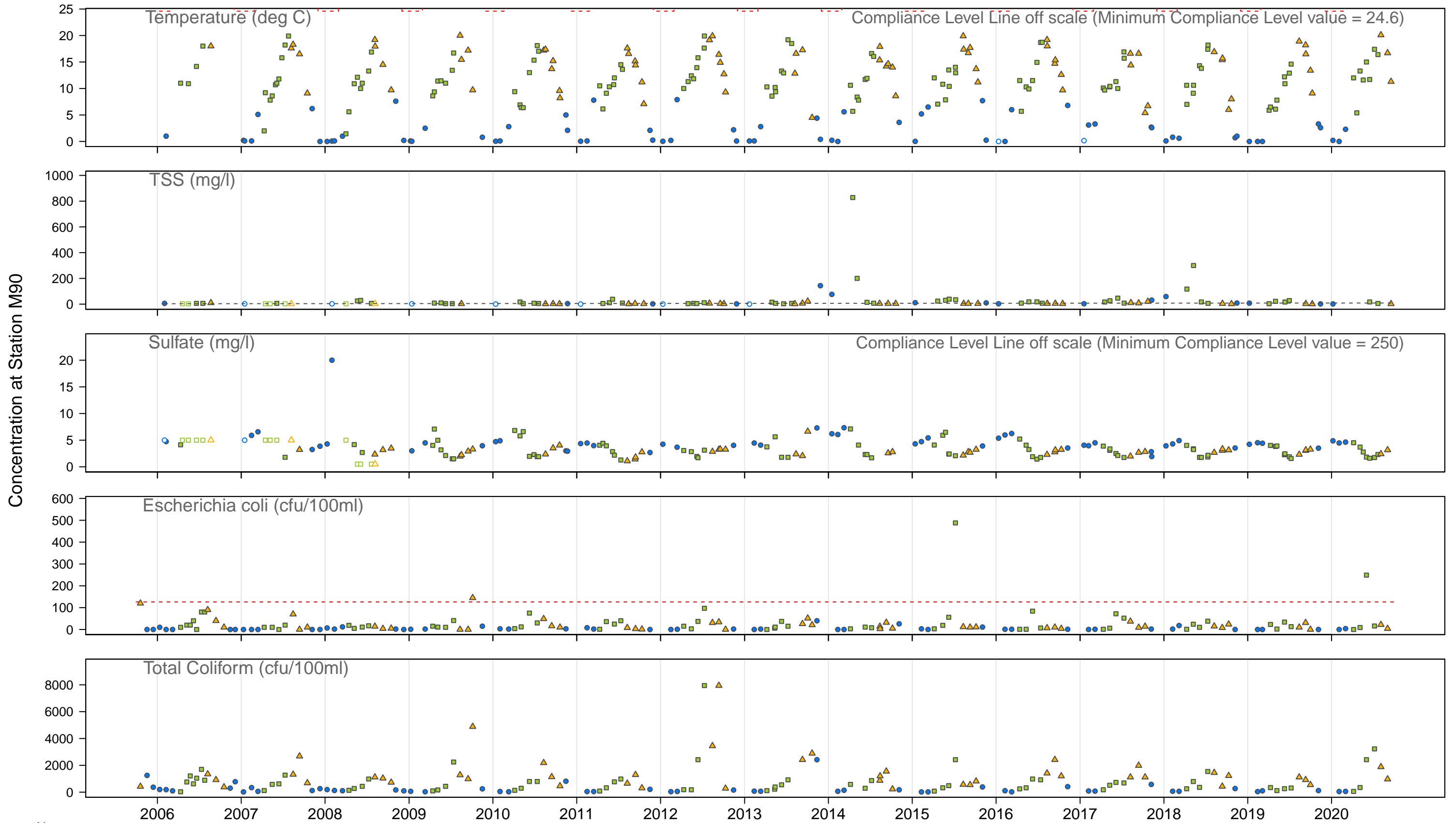


Figure C1-93
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station C50



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

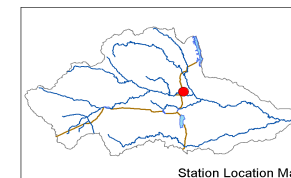
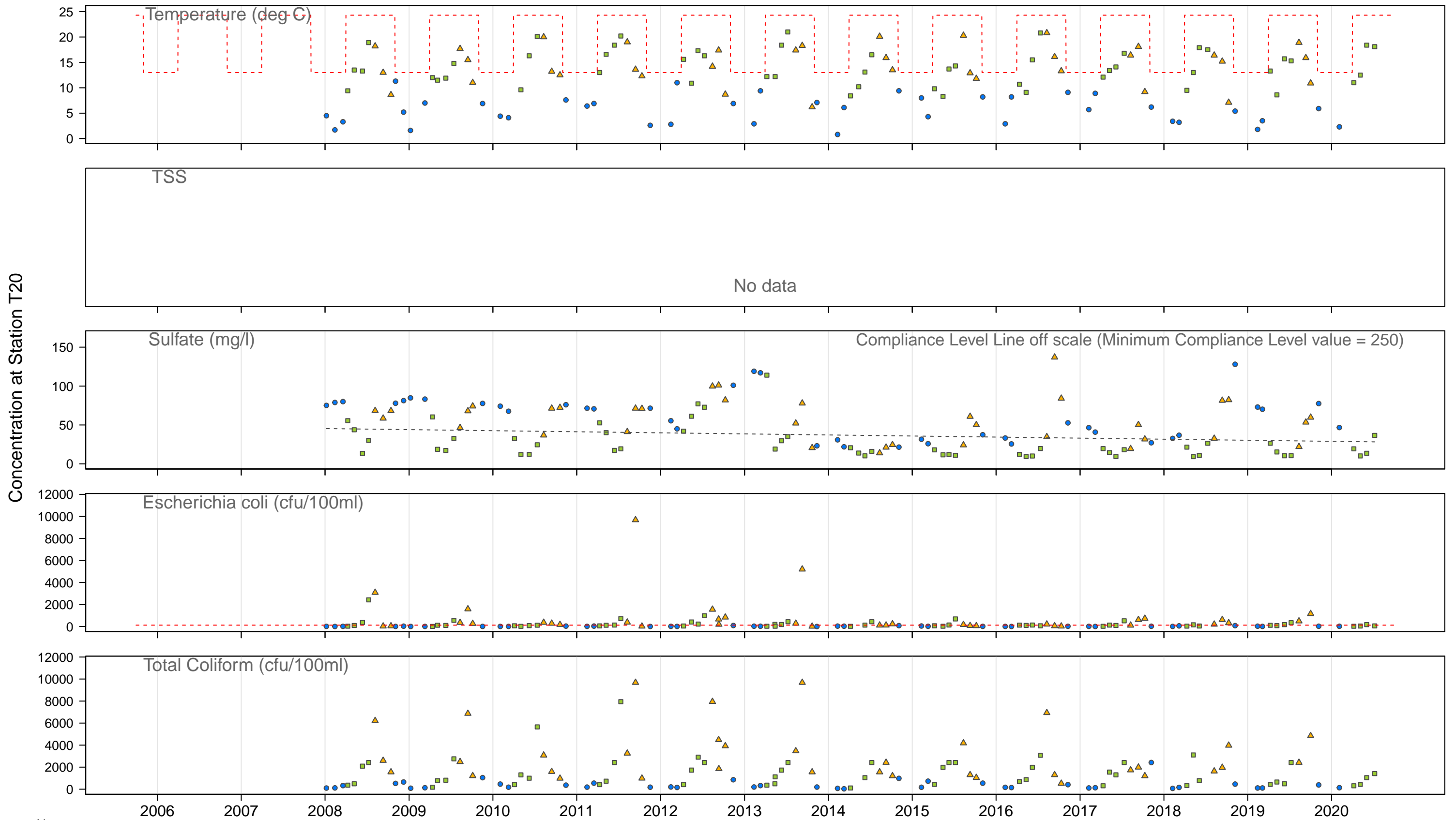


Figure C1-94
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M90



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

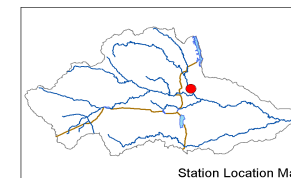
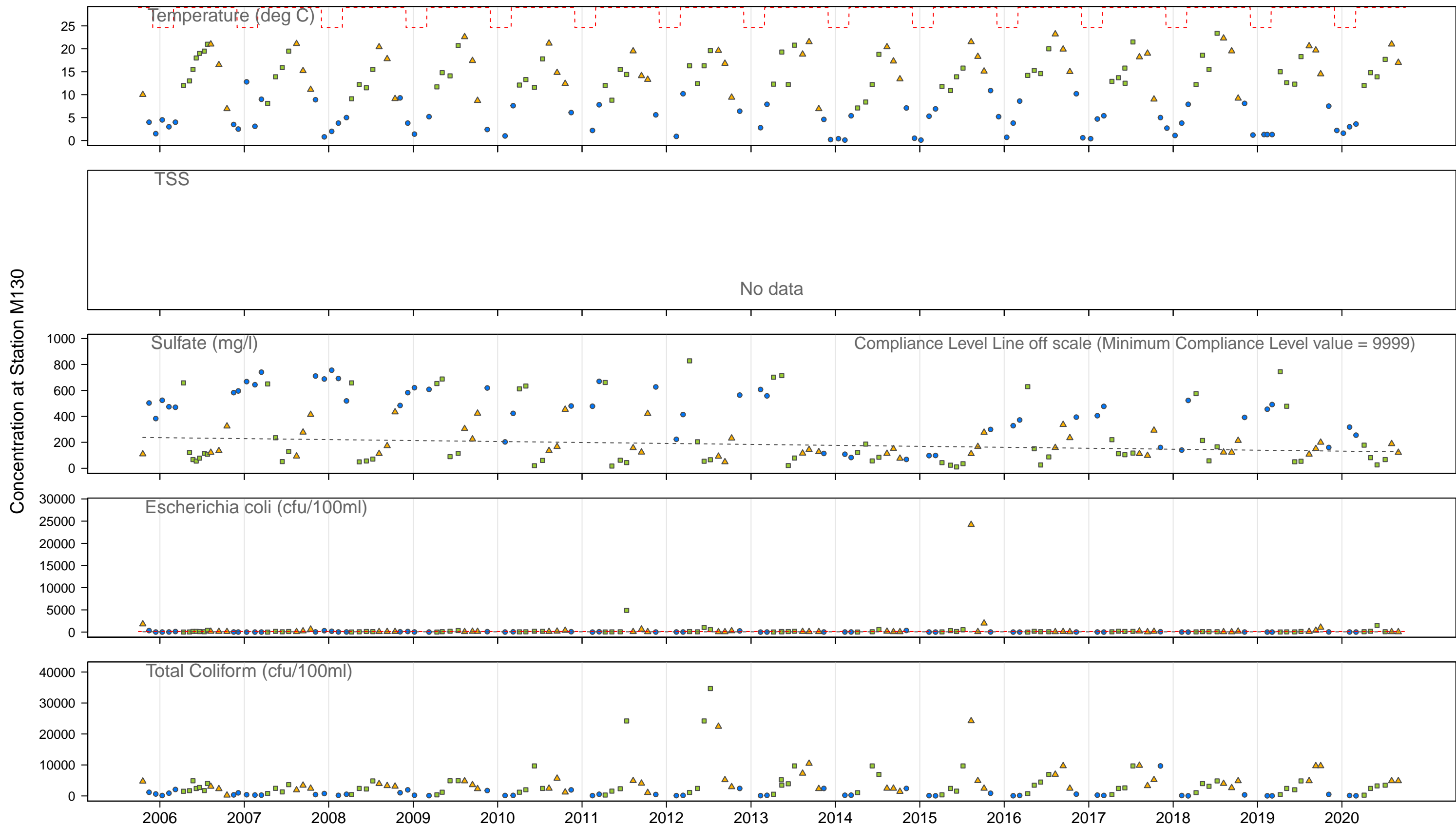


Figure C1-95
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station T20



Notes:
 1) Non-detects represented as hollow symbols; value shown to full detection limit.
 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

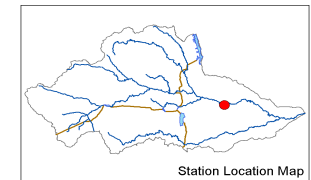
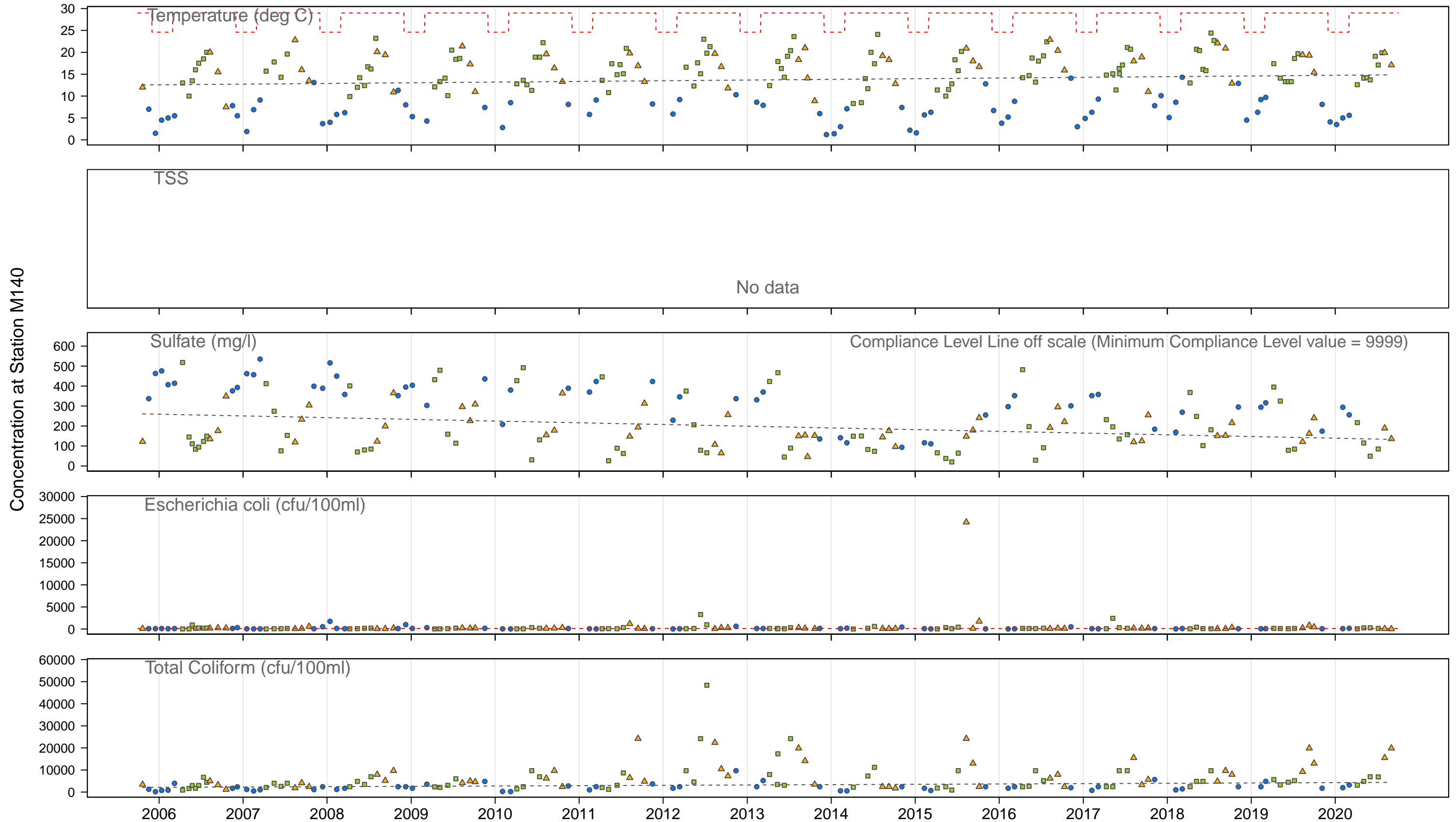


Figure C1-96
 Big Thompson 2021 Report
 Time-Series Water Quality Plots
 Station M130



Notes:
 1) Non-detects represented as hollow symbols; value shown to full detection limit.
 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

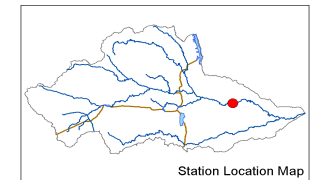
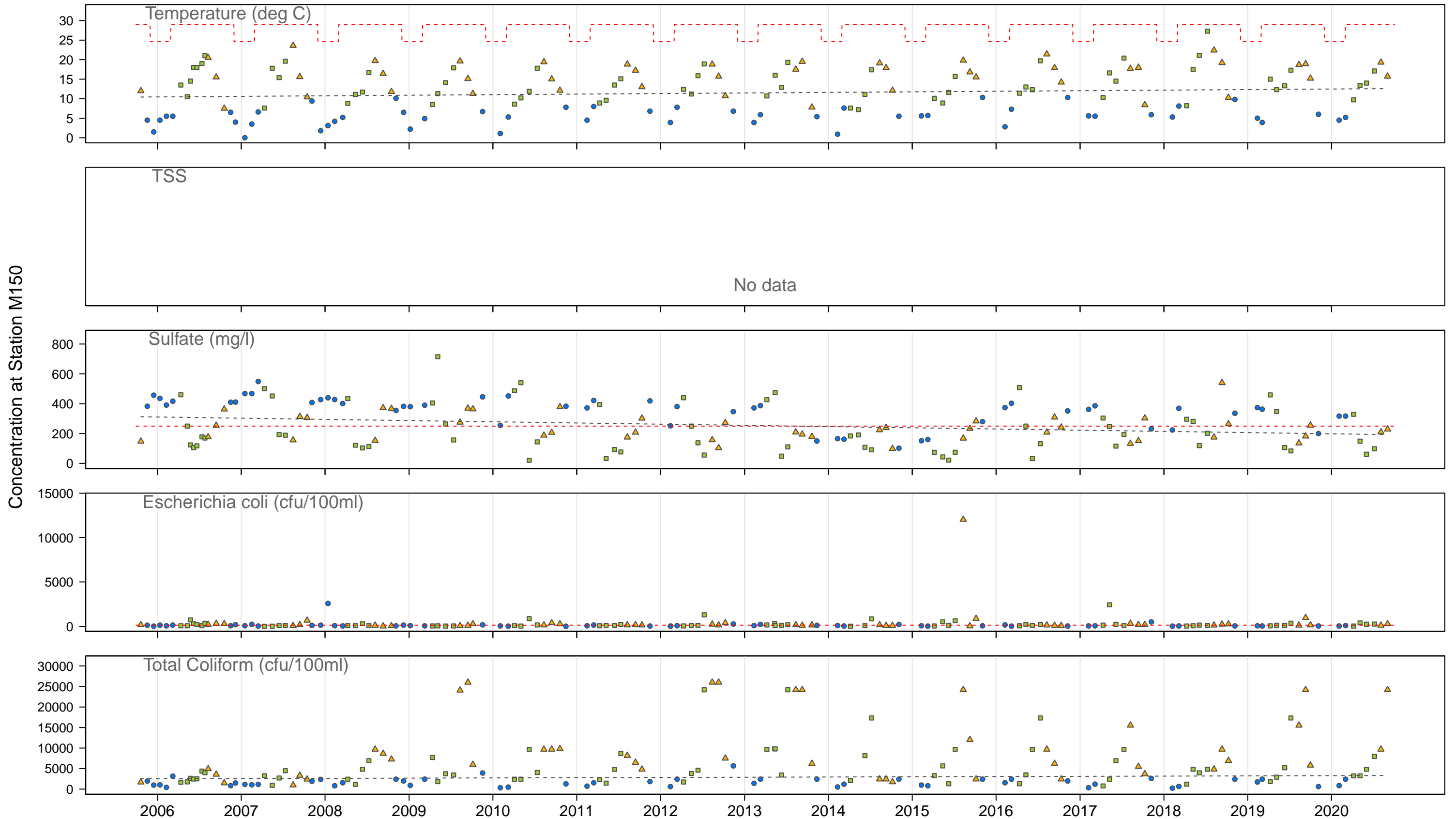


Figure C1-97
 Big Thompson 2021 Report
 Time-Series Water Quality Plots
 Station M140



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

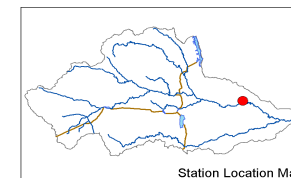
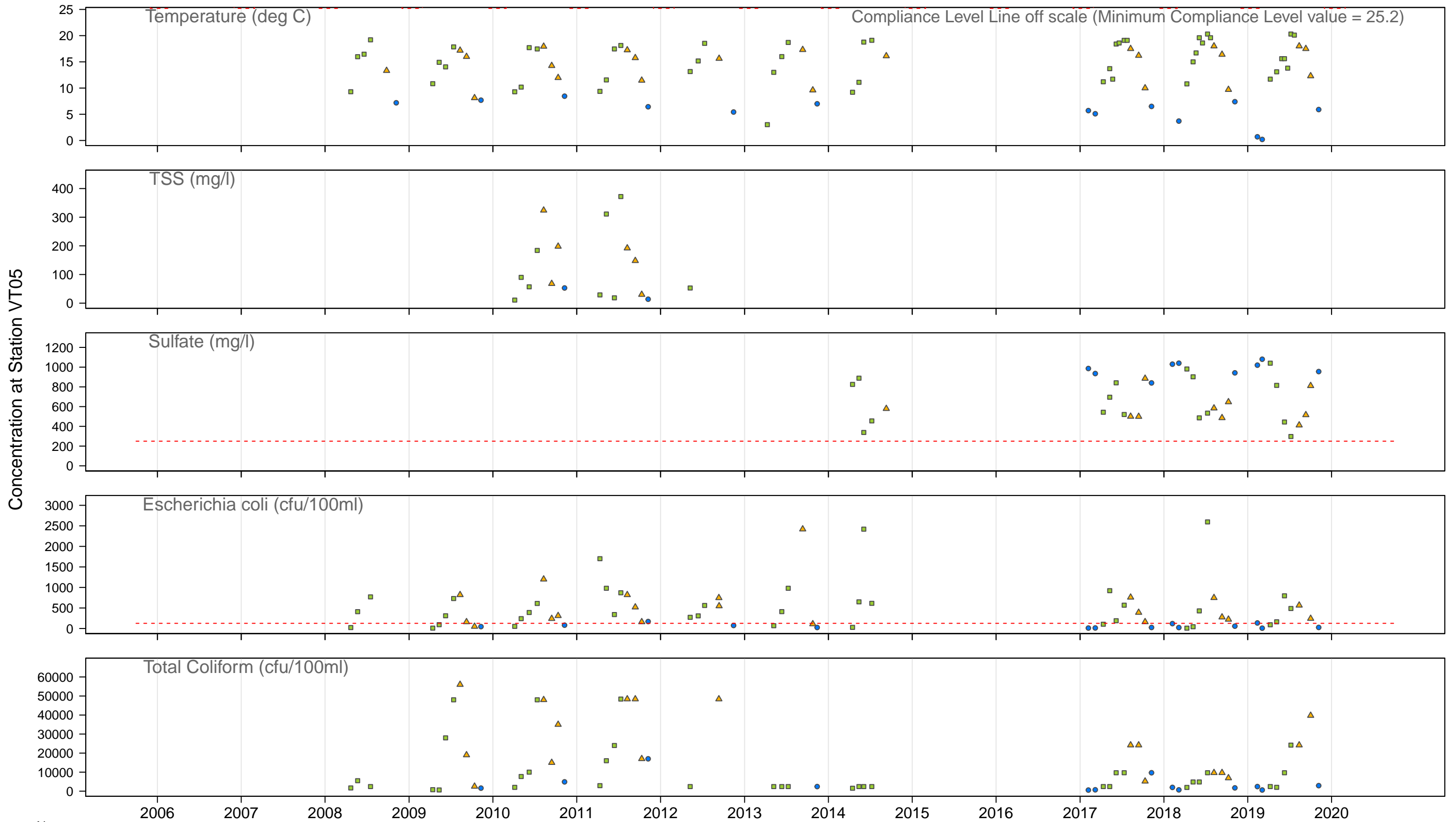


Figure C1-98
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station M150



Notes:

- 1) Non-detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann-Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally-adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov-Mar)
- Summer (Apr-Jul)
- ▲ Fall (Aug-Oct)
- - - Statistically Significant & Non-Zero Mann-Kendall Trend

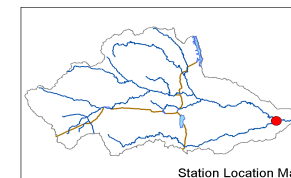
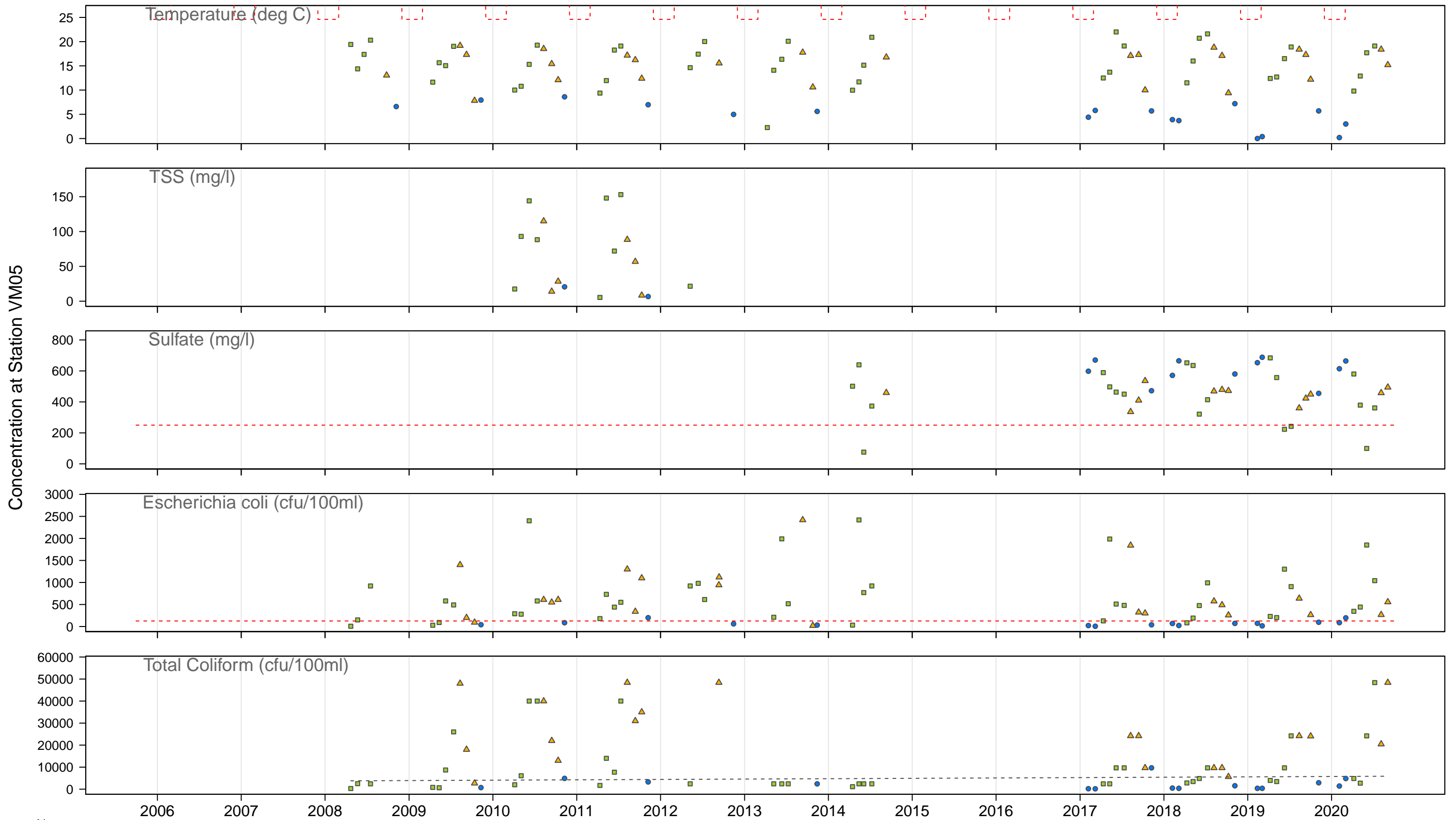


Figure C1-99
Big Thompson 2021 Report
Time-Series Water Quality Plots
Station VT05



Notes:

- 1) Non–detects represented as hollow symbols; value shown to full detection limit.
- 2) Mann–Kendall trend line (where shown) is not interpreted as a linear regression. It is an overall seasonally–adjusted temporal trend.
- 3) Total N and Total P compliance levels are draft criteria which are not currently applicable, except for Total P at M10, M20, M30, and M40.
- 4) Compliance level shown for perspective and may not be applicable to individual values.

- Winter (Nov–Mar)
- Summer (Apr–Jul)
- ▲ Fall (Aug–Oct)
- Statistically Significant & Non–Zero Mann–Kendall Trend

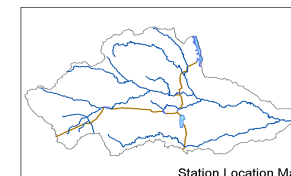


Figure C1–100
Big Thompson 2021 Report
Time–Series Water Quality Plots
Station VM05

Cadmium

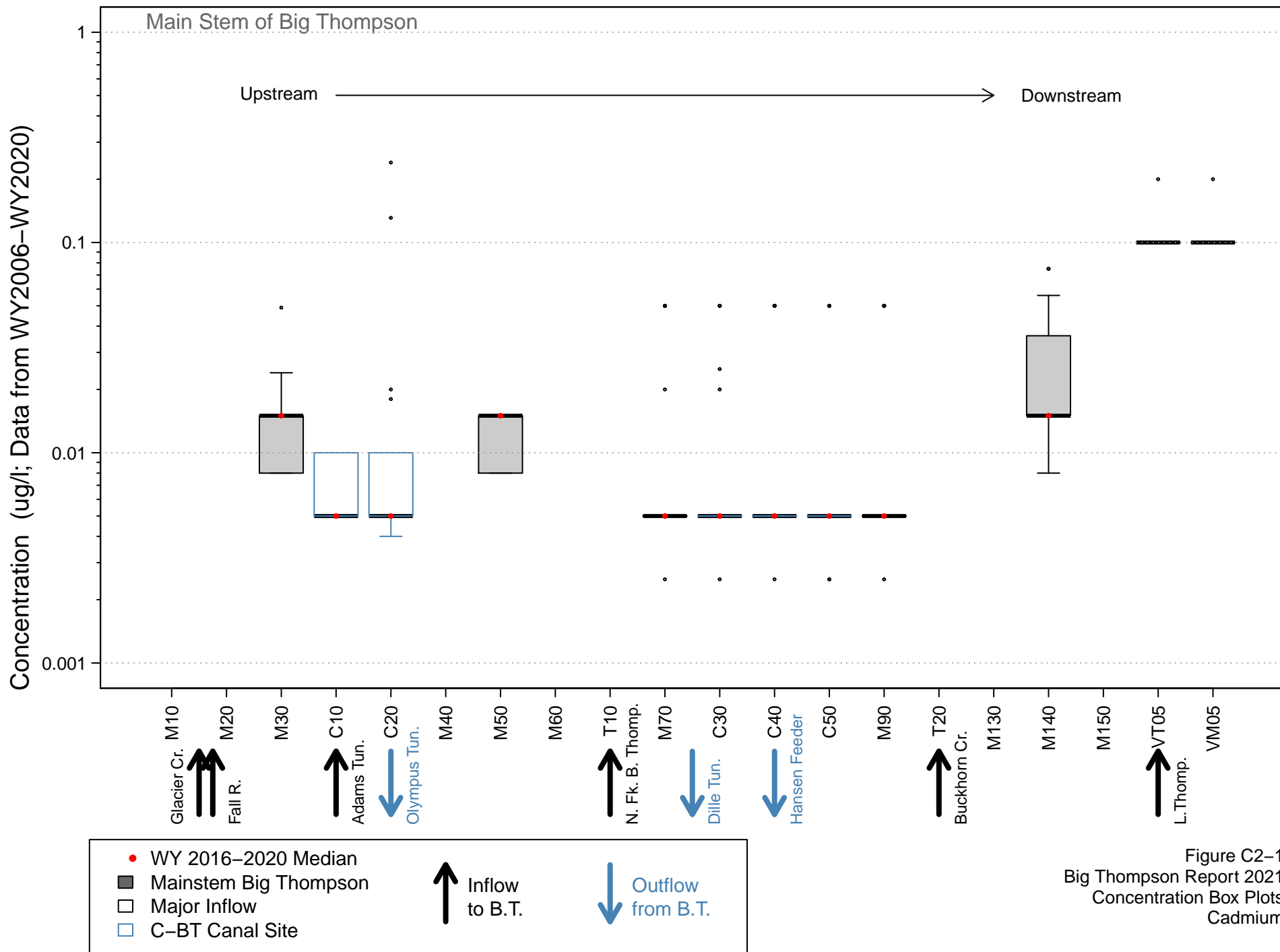


Figure C2-1
Big Thompson Report 2021
Concentration Box Plots
Cadmium

Copper

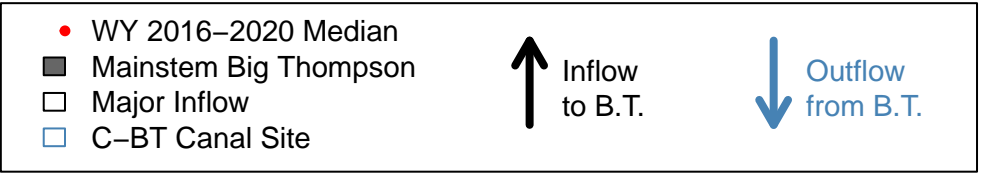
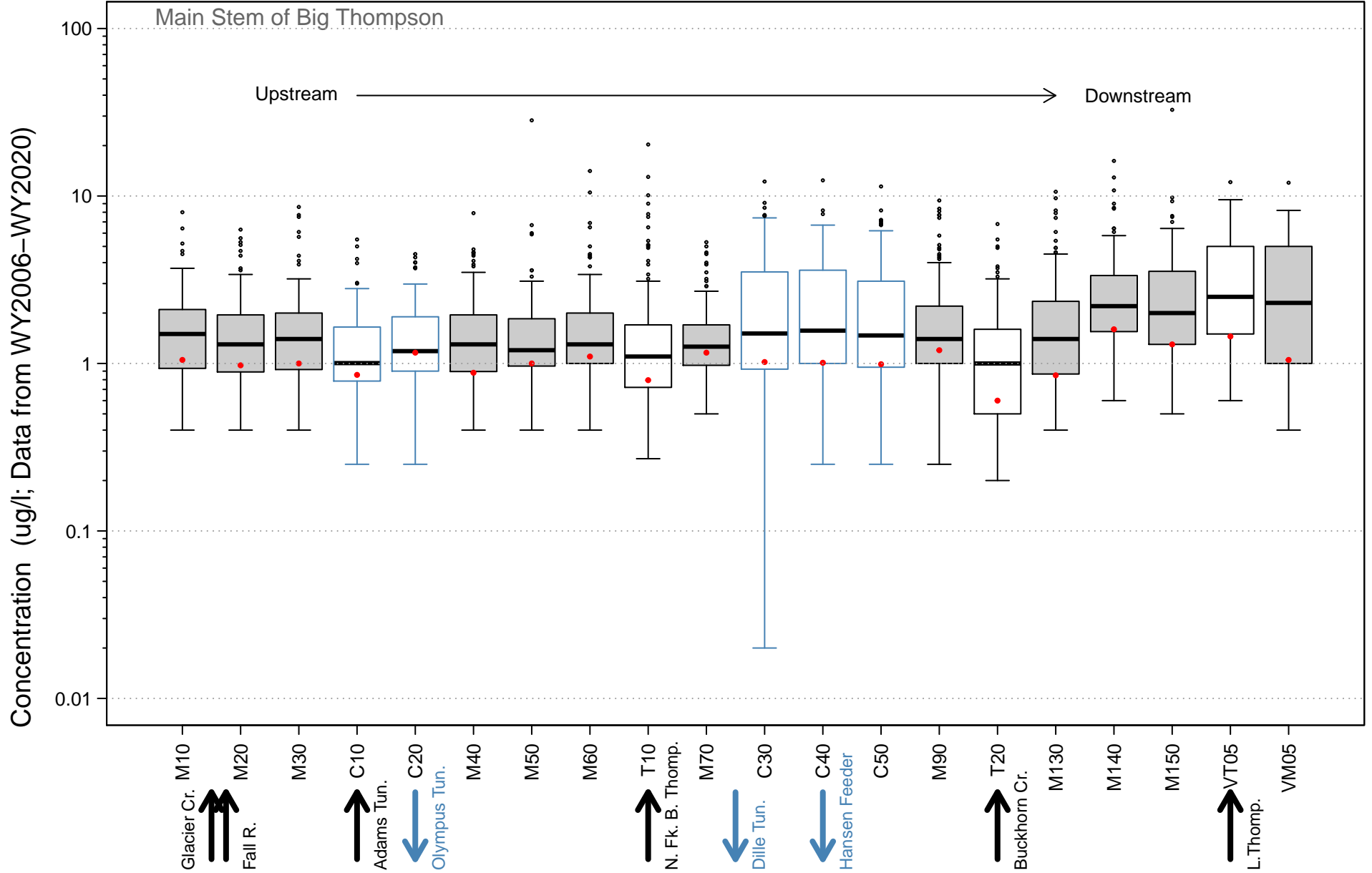


Figure C2–2
Big Thompson Report 2021
Concentration Box Plots
Copper

Arsenic

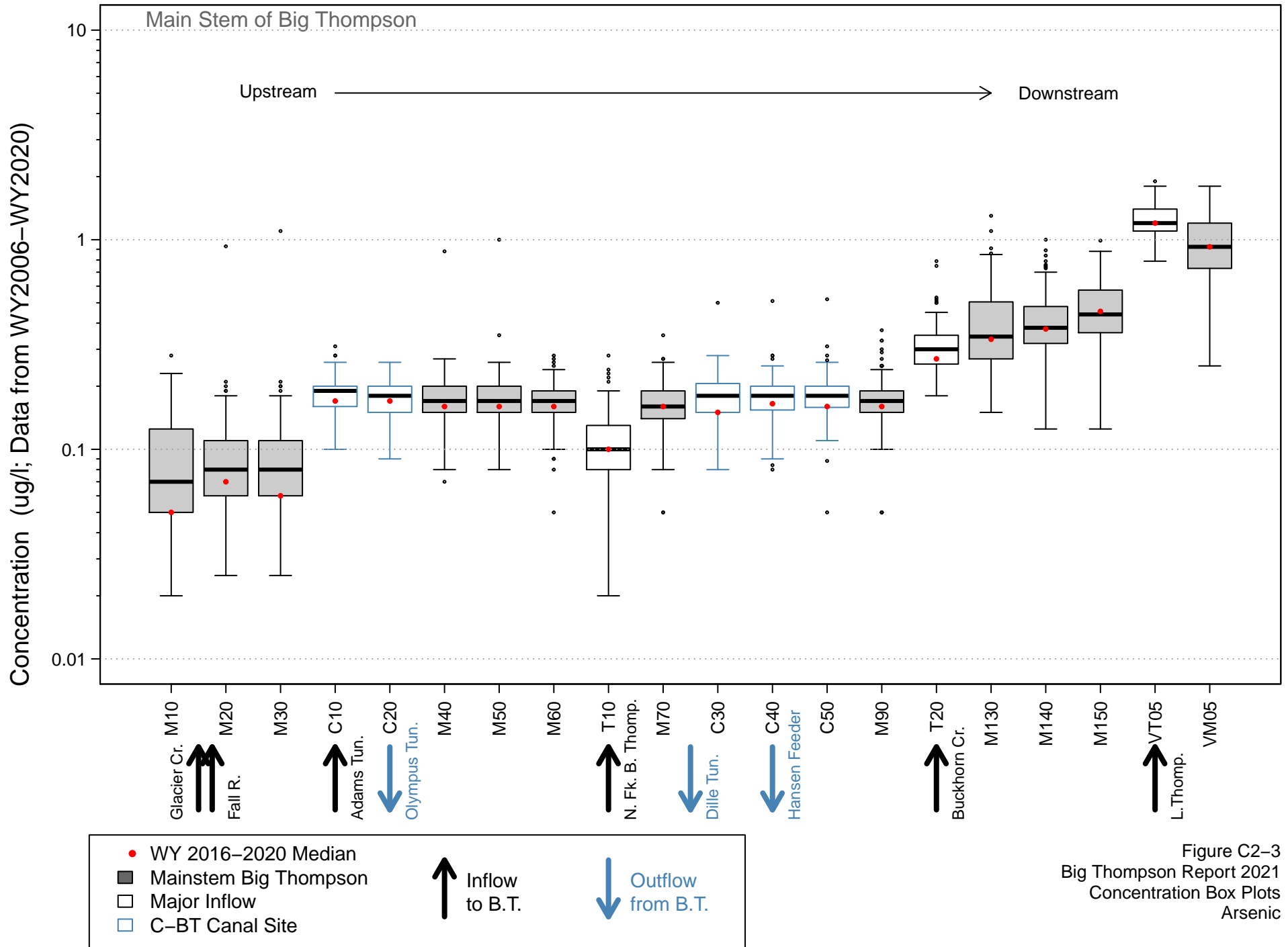


Figure C2–3
Big Thompson Report 2021
Concentration Box Plots
Arsenic

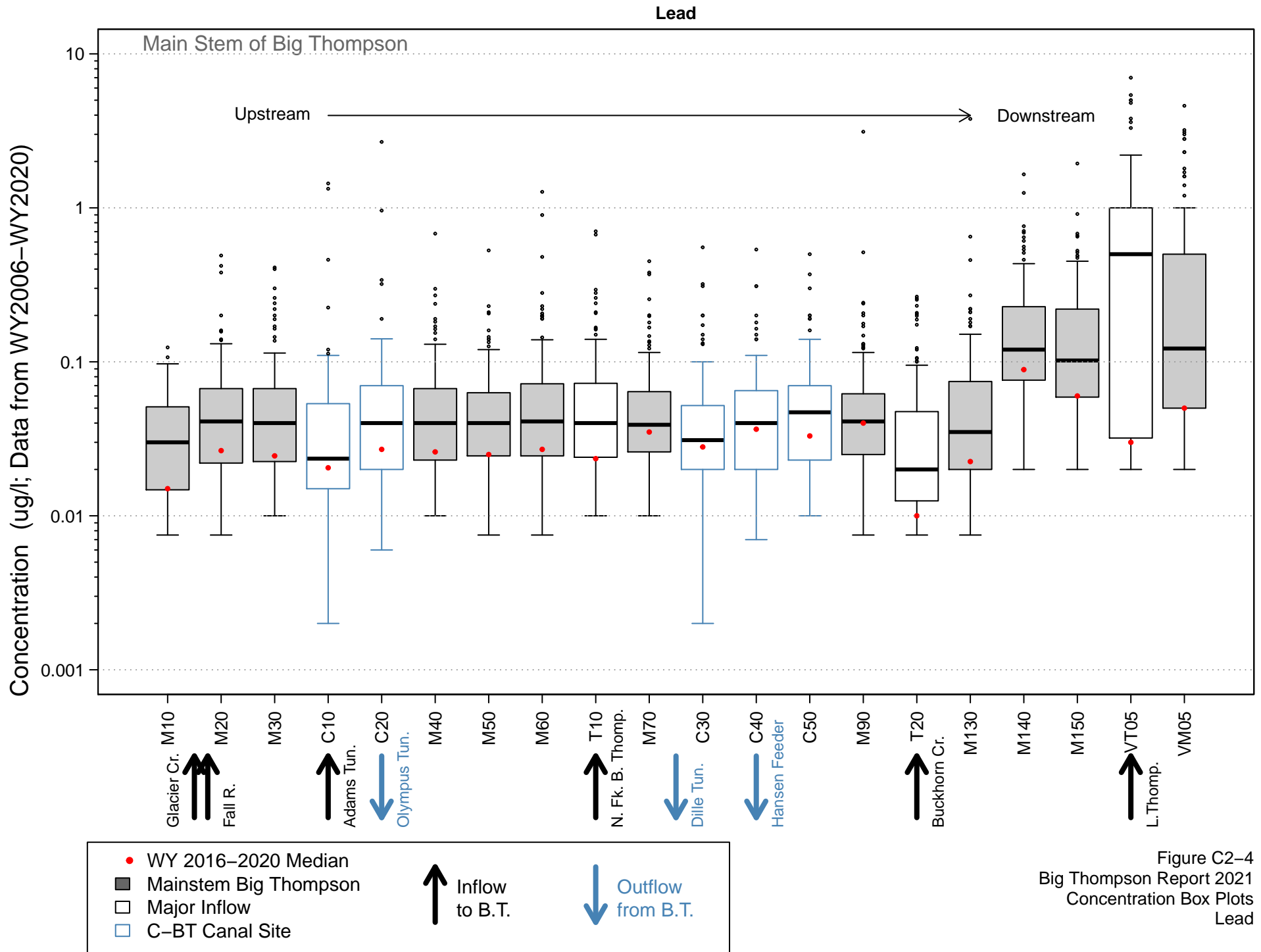
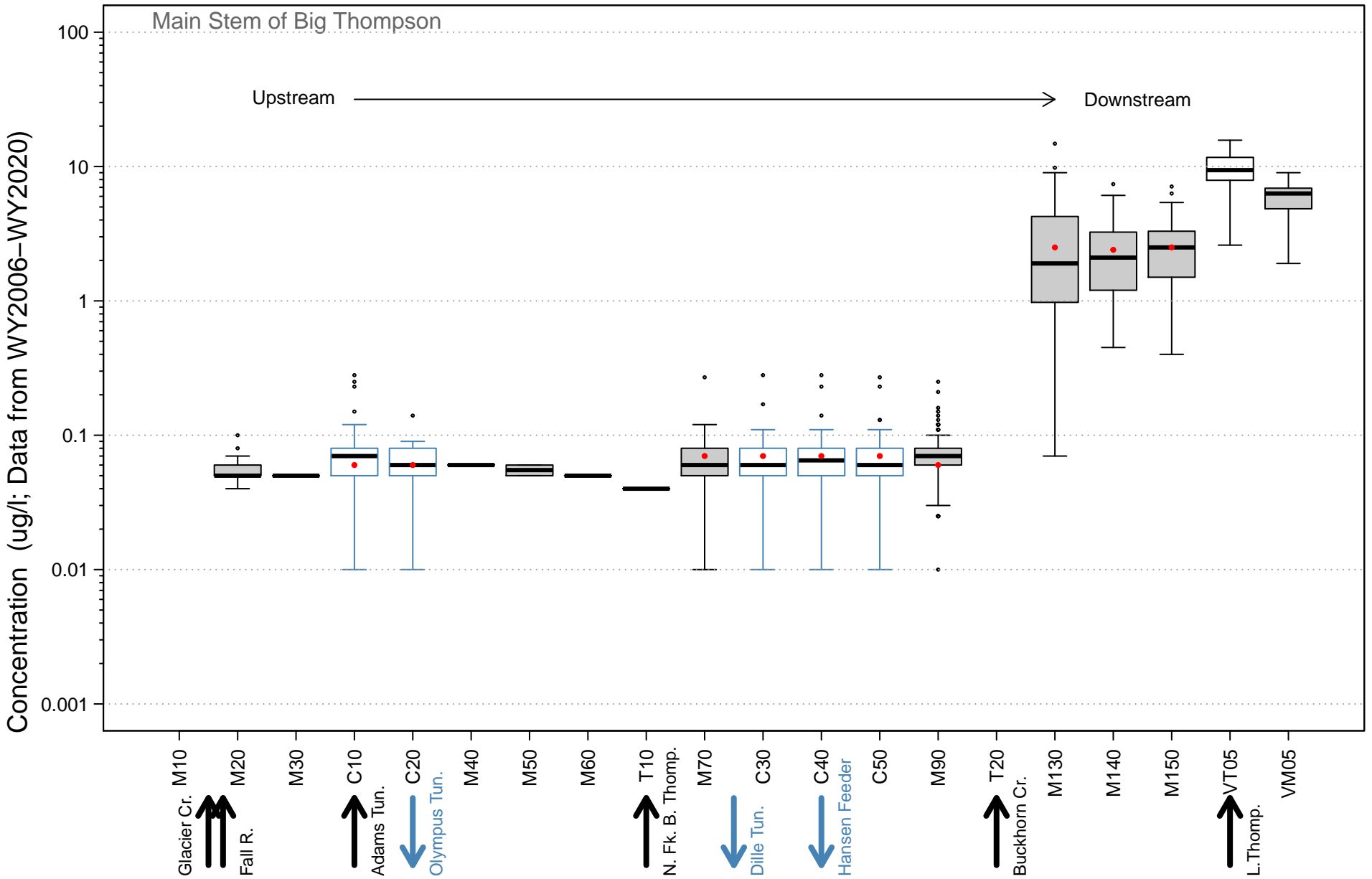


Figure C2–4
Big Thompson Report 2021
Concentration Box Plots
Lead

Selenium



- WY 2016–2020 Median
- Mainstem Big Thompson
- Major Inflow
- C–BT Canal Site

↑ Inflow to B.T. ↓ Outflow from B.T.

Figure C2–5
Big Thompson Report 2021
Concentration Box Plots
Selenium

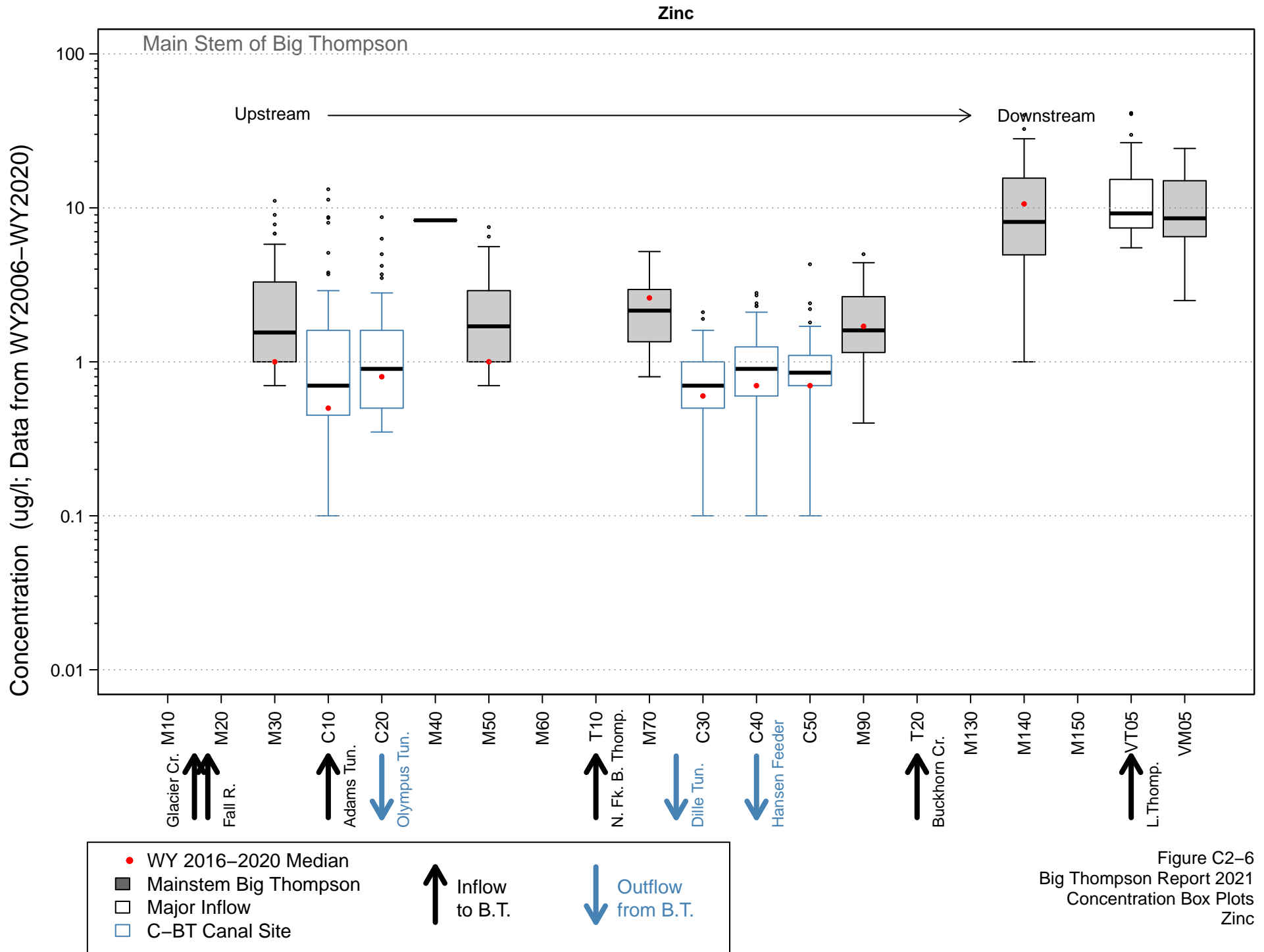


Figure C2–6
Big Thompson Report 2021
Concentration Box Plots
Zinc

Escherichia coli

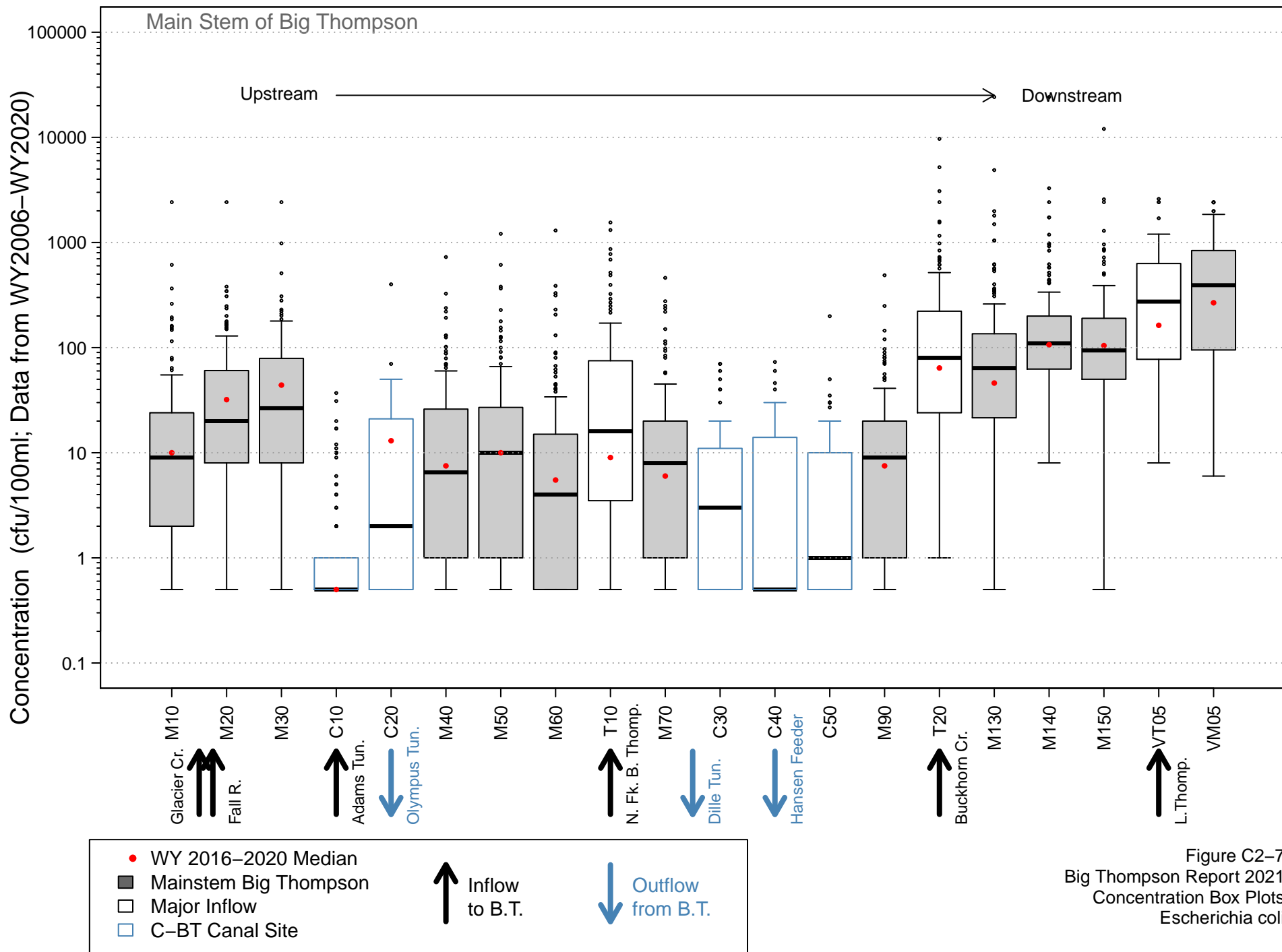


Figure C2–7
Big Thompson Report 2021
Concentration Box Plots
Escherichia coli

Total Coliform

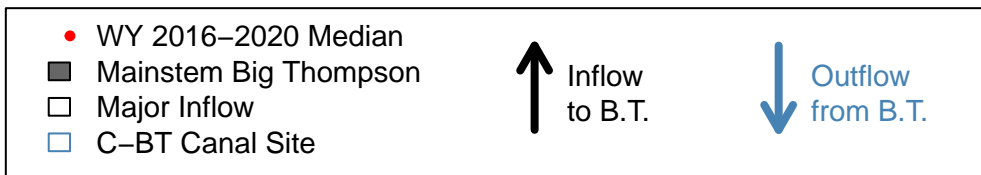
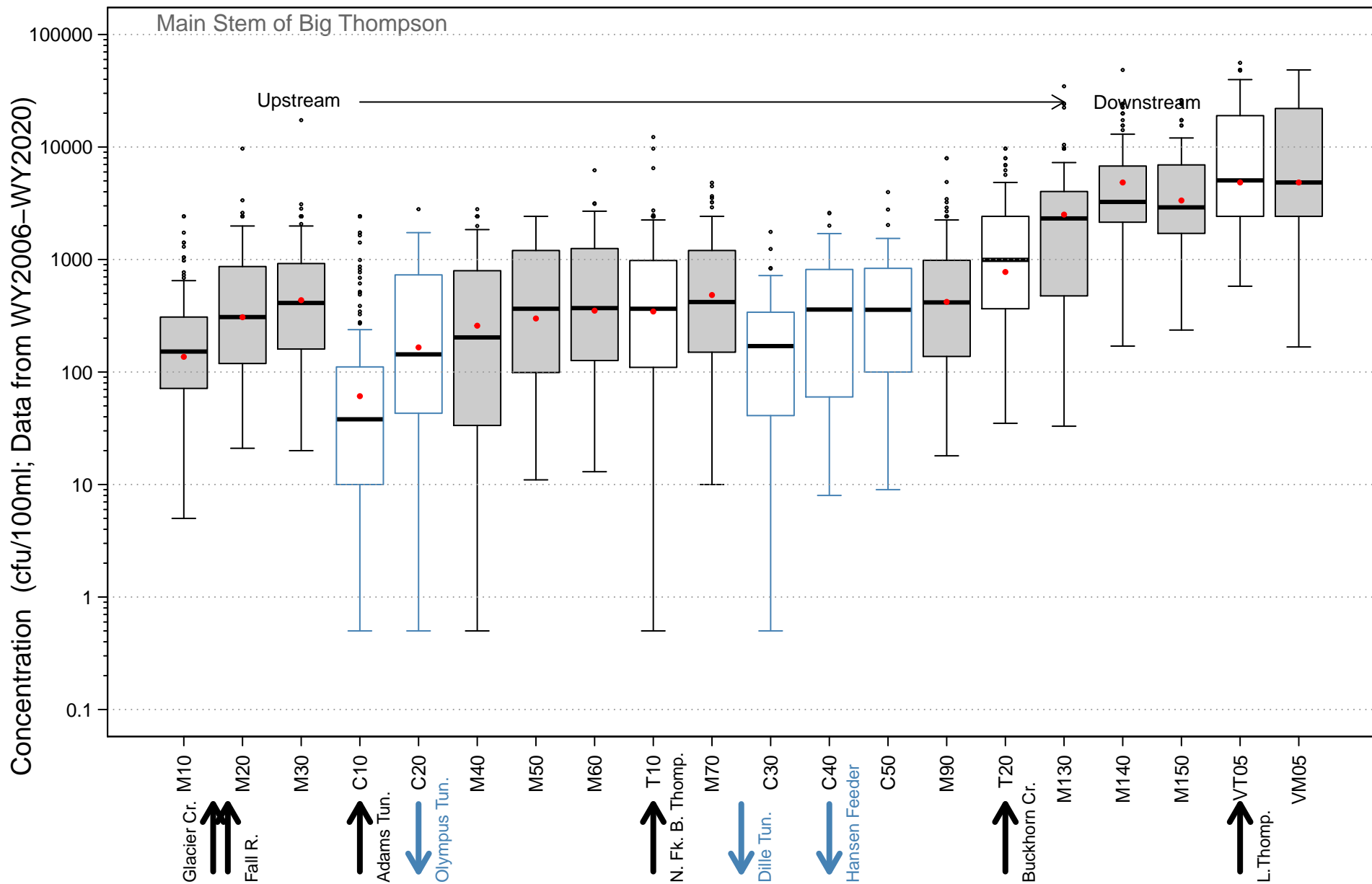


Figure C2–8
Big Thompson Report 2021
Concentration Box Plots
Total Coliform

Dissolved Phosphorus

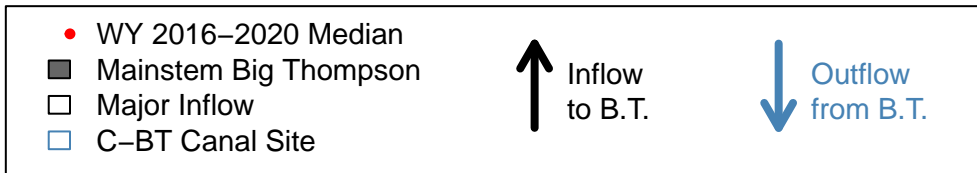
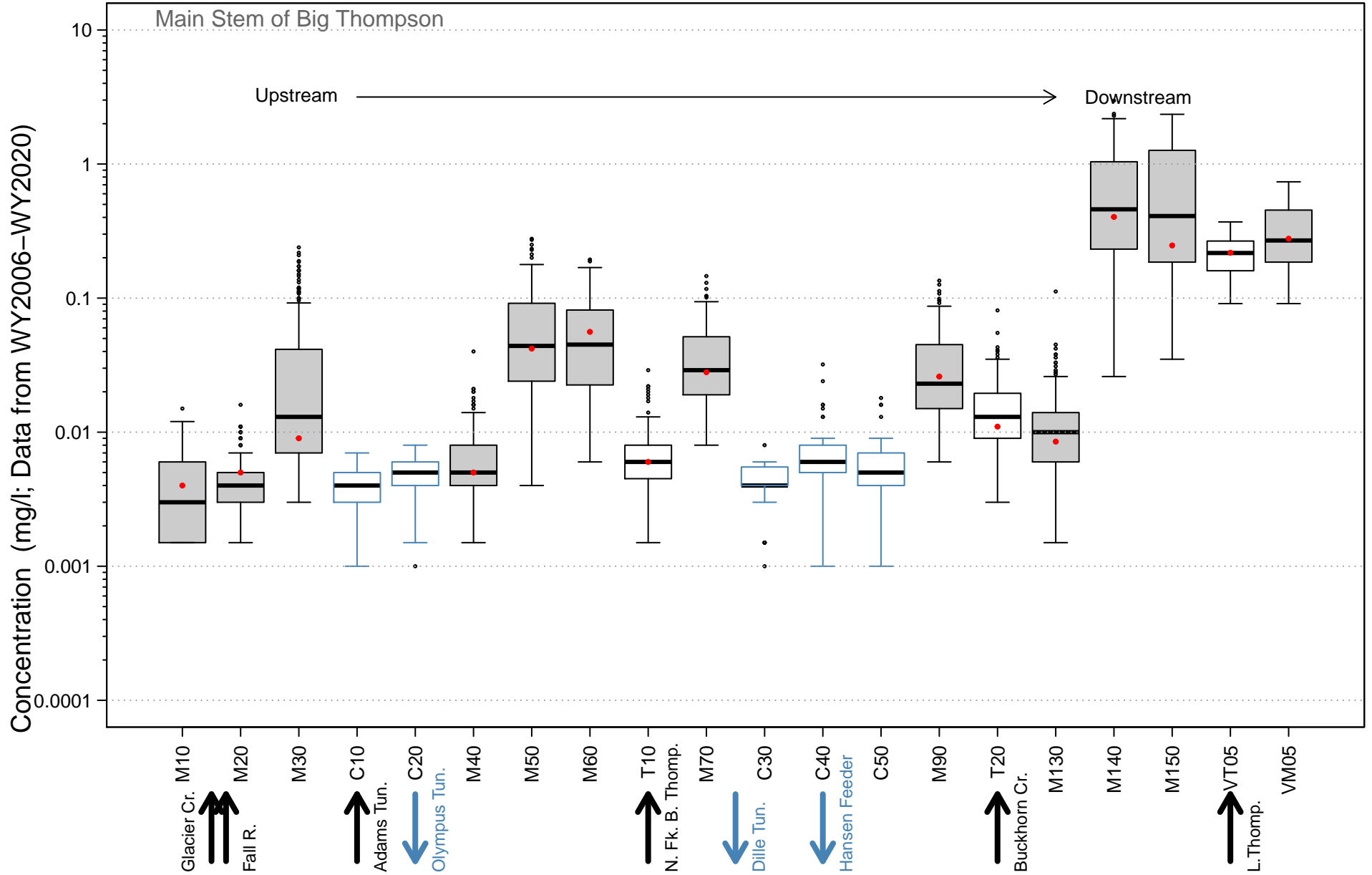


Figure C2–9
Big Thompson Report 2021
Concentration Box Plots
Dissolved Phosphorus

Orthophosphate as P

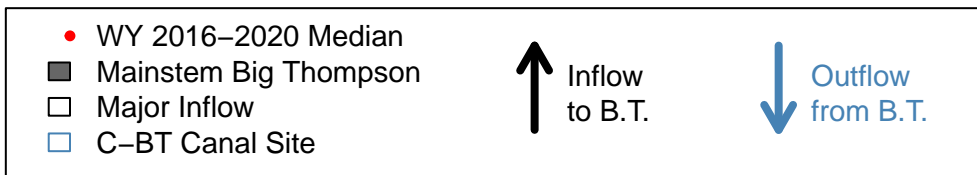
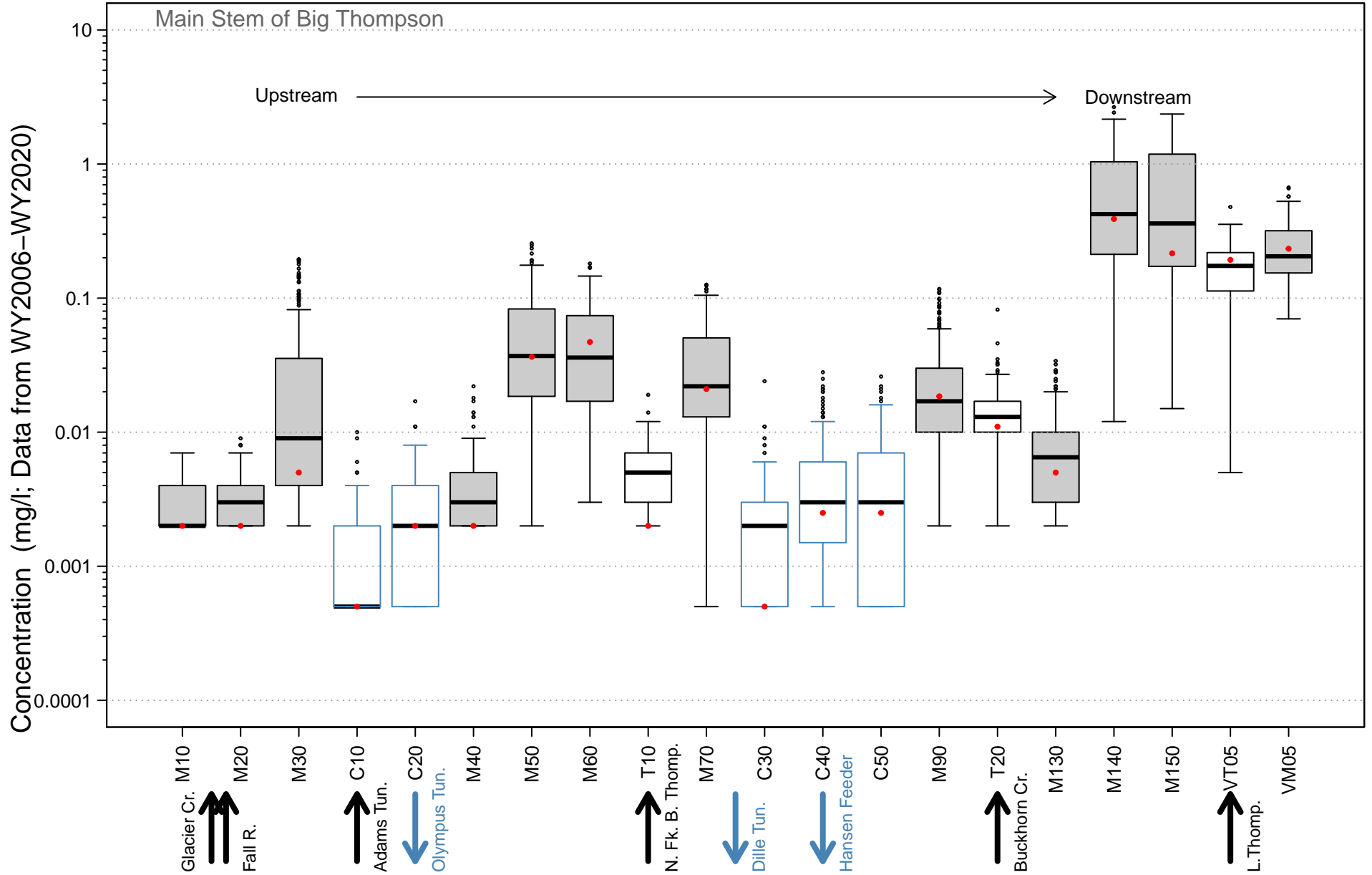


Figure C2-10
Big Thompson Report 2021
Concentration Box Plots
Orthophosphate as P

Total Phosphorus

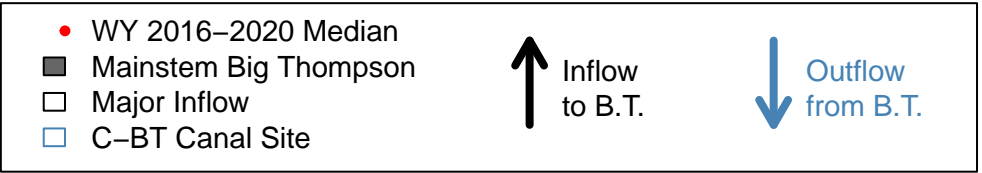
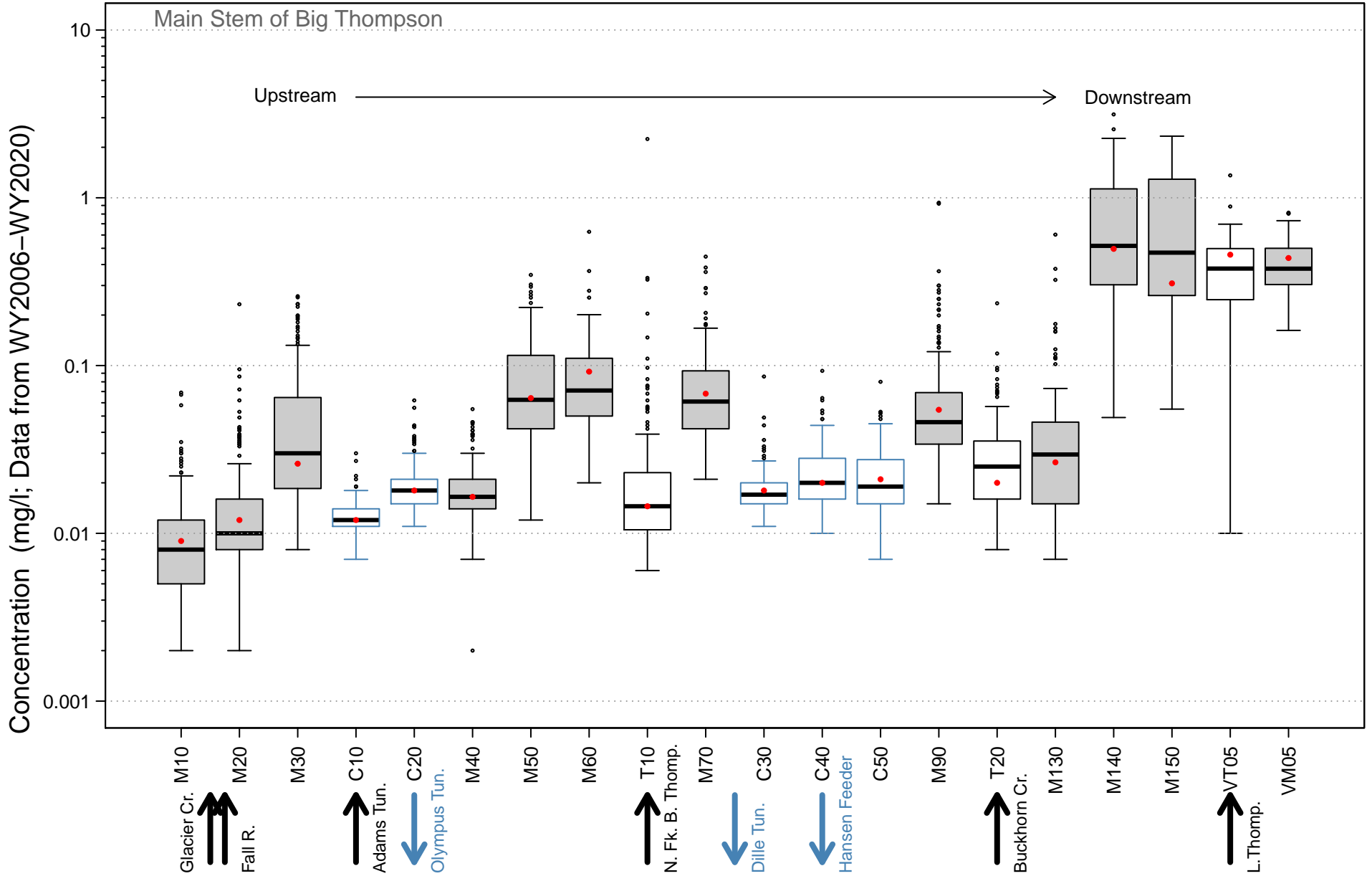


Figure C2–11
Big Thompson Report 2021
Concentration Box Plots
Total Phosphorus

Ammonia Nitrogen as N

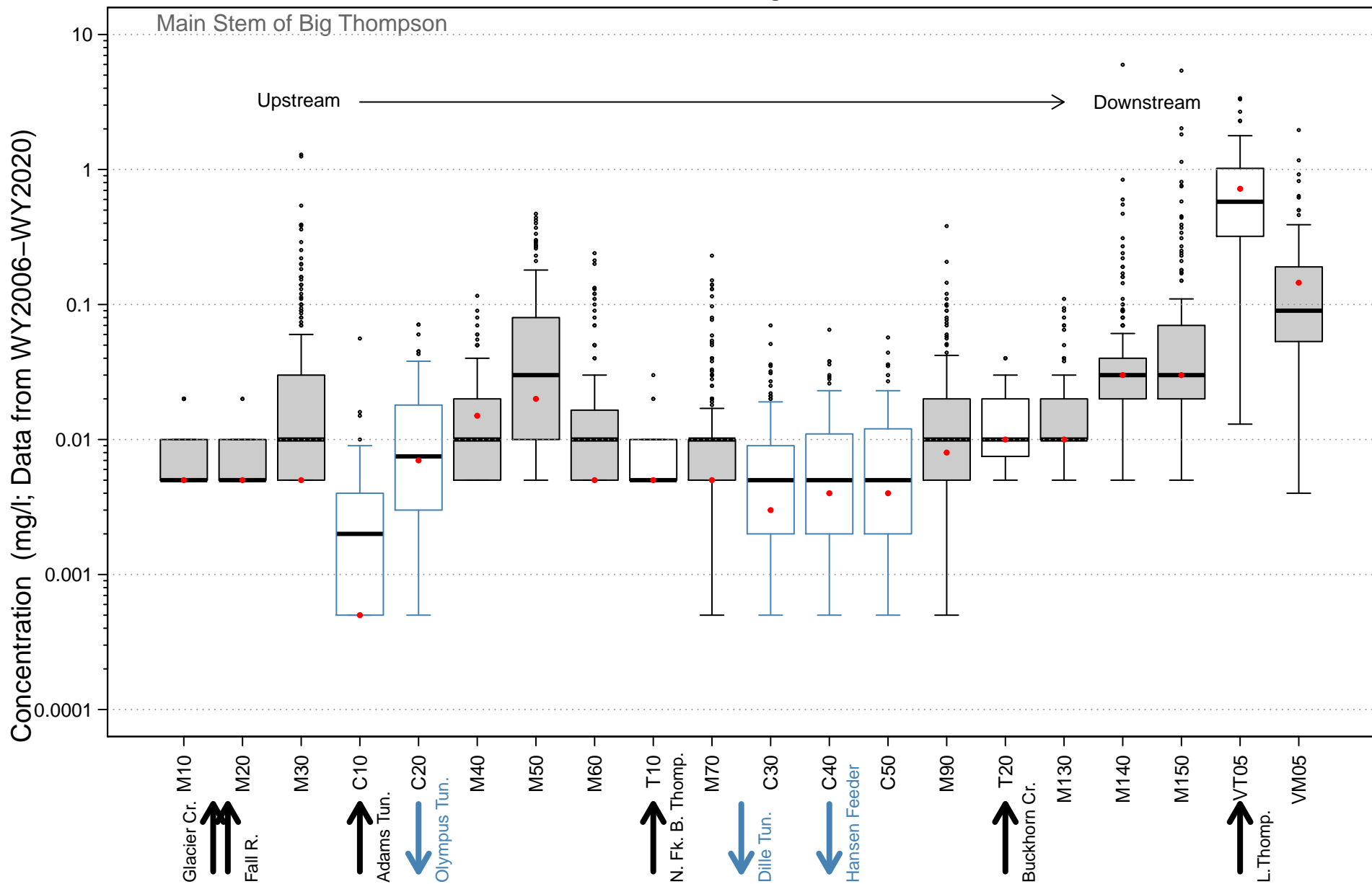


Figure C2-12
Big Thompson Report 2021
Concentration Box Plots
Ammonia Nitrogen as N

Nitrate + Nitrite as N

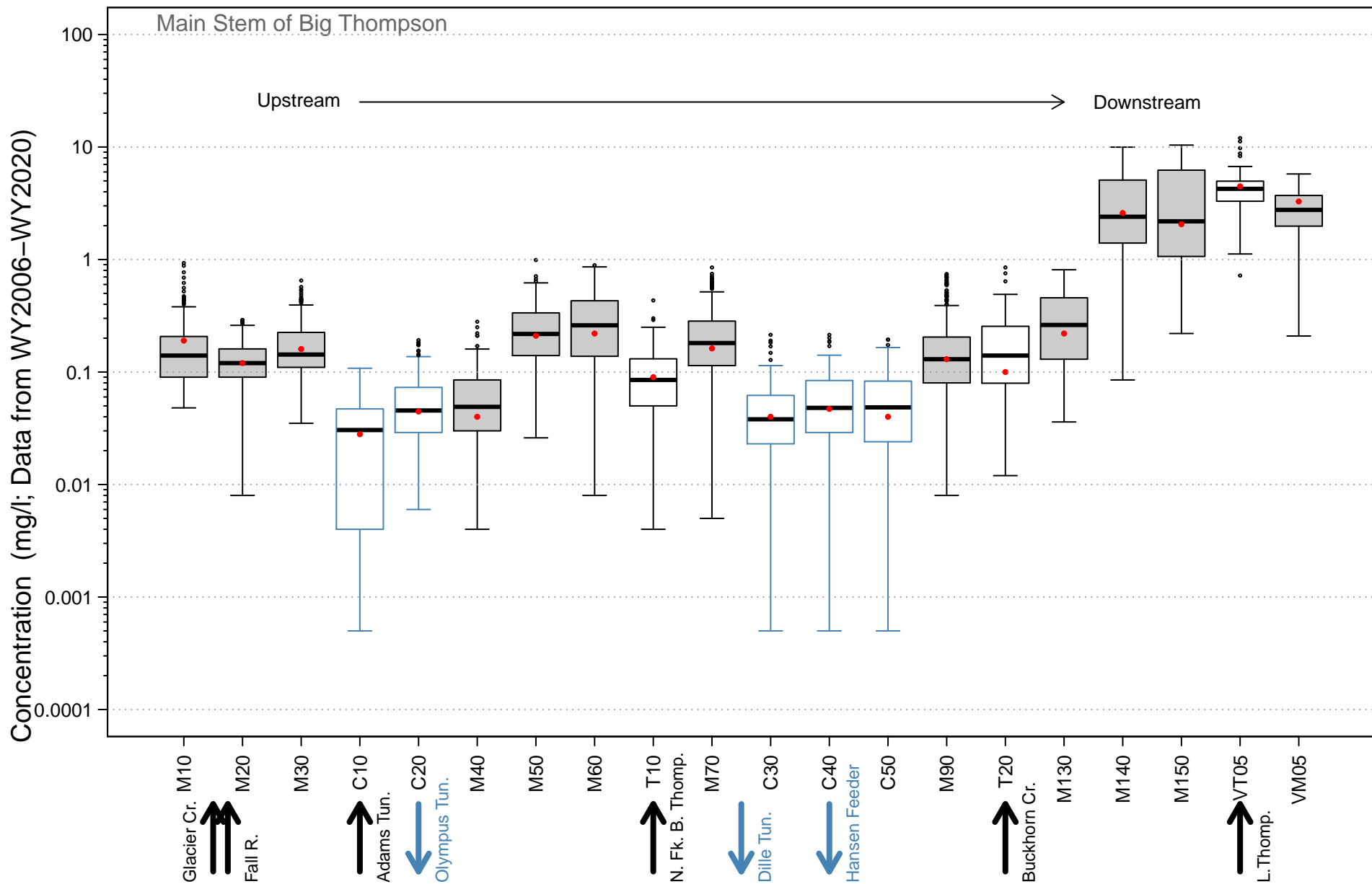


Figure C2-13
Big Thompson Report 2021
Concentration Box Plots
Nitrate + Nitrite as N

Nitrogen, Kjeldahl

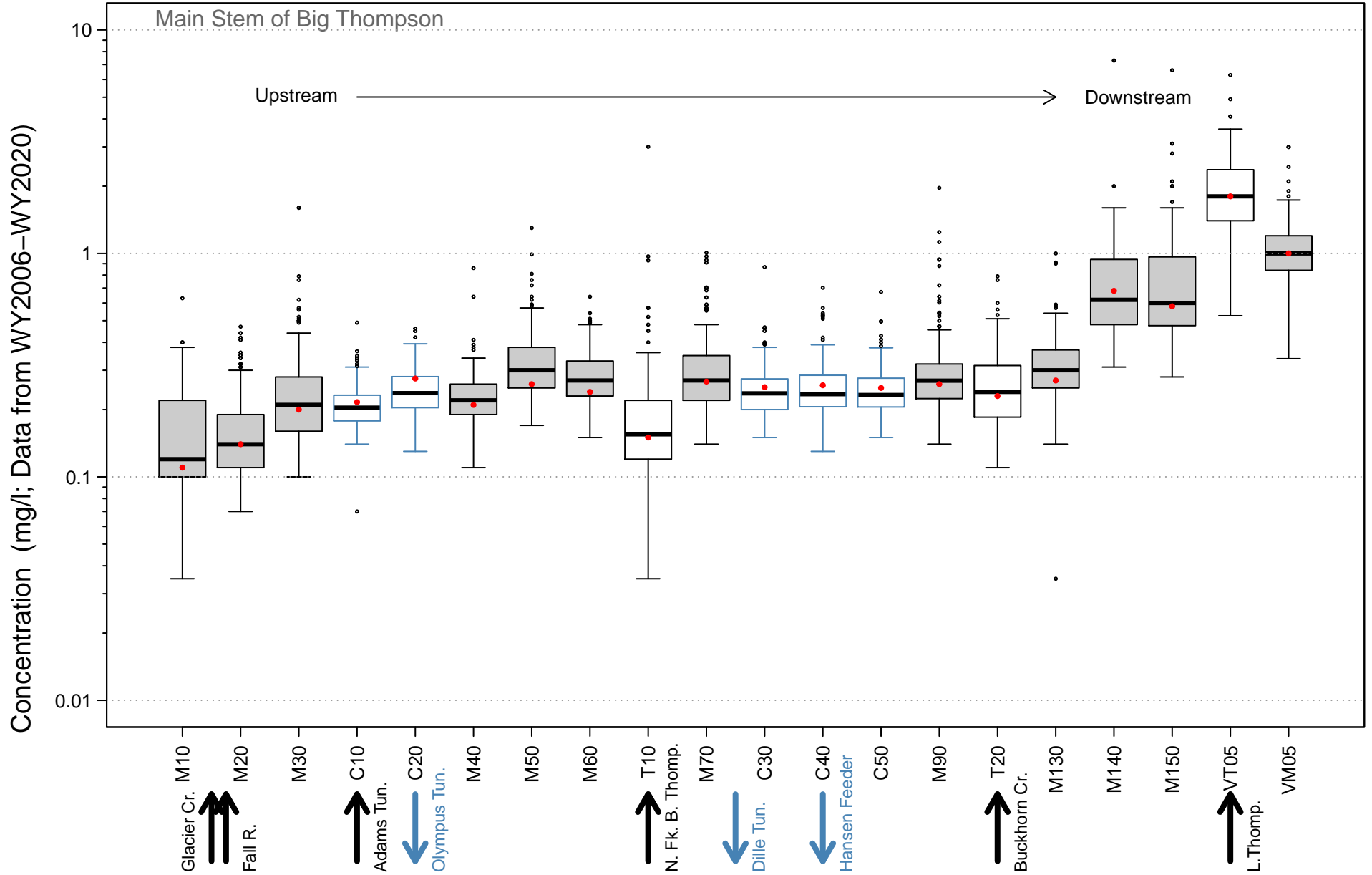


Figure C2-14
Big Thompson Report 2021
Concentration Box Plots
Nitrogen, Kjeldahl

Total Nitrogen

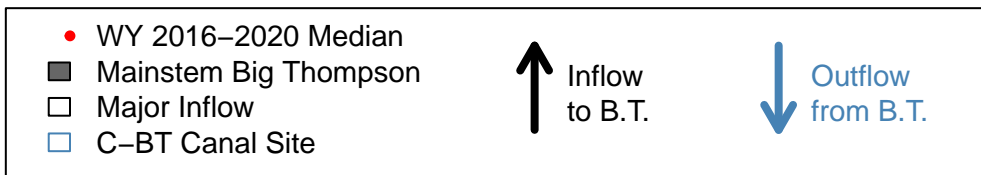
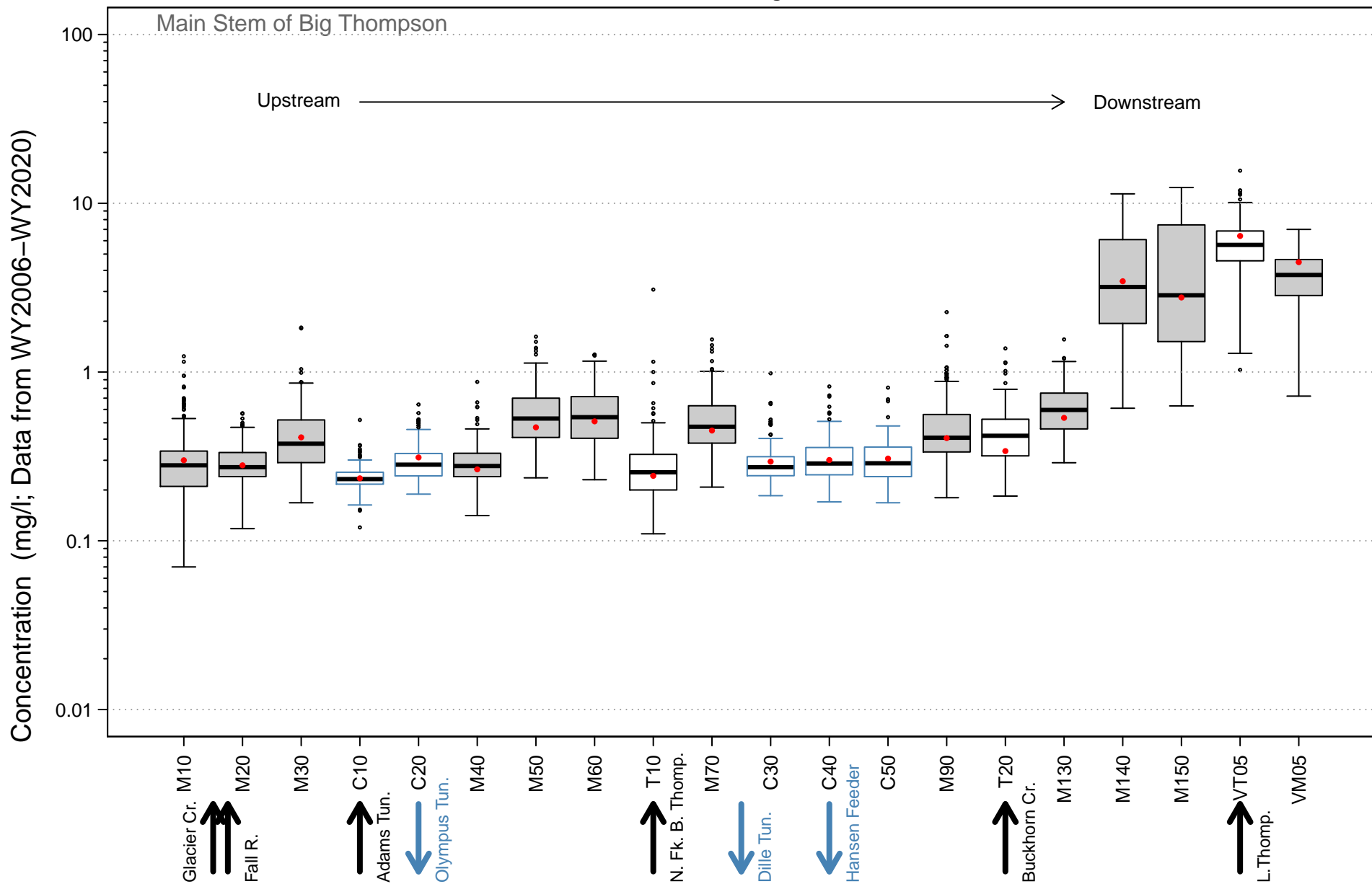


Figure C2-15
Big Thompson Report 2021
Concentration Box Plots
Total Nitrogen

Alkalinity

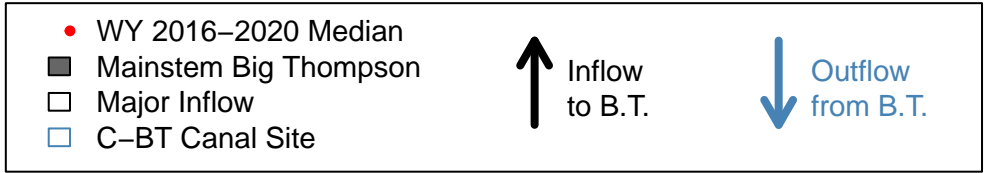
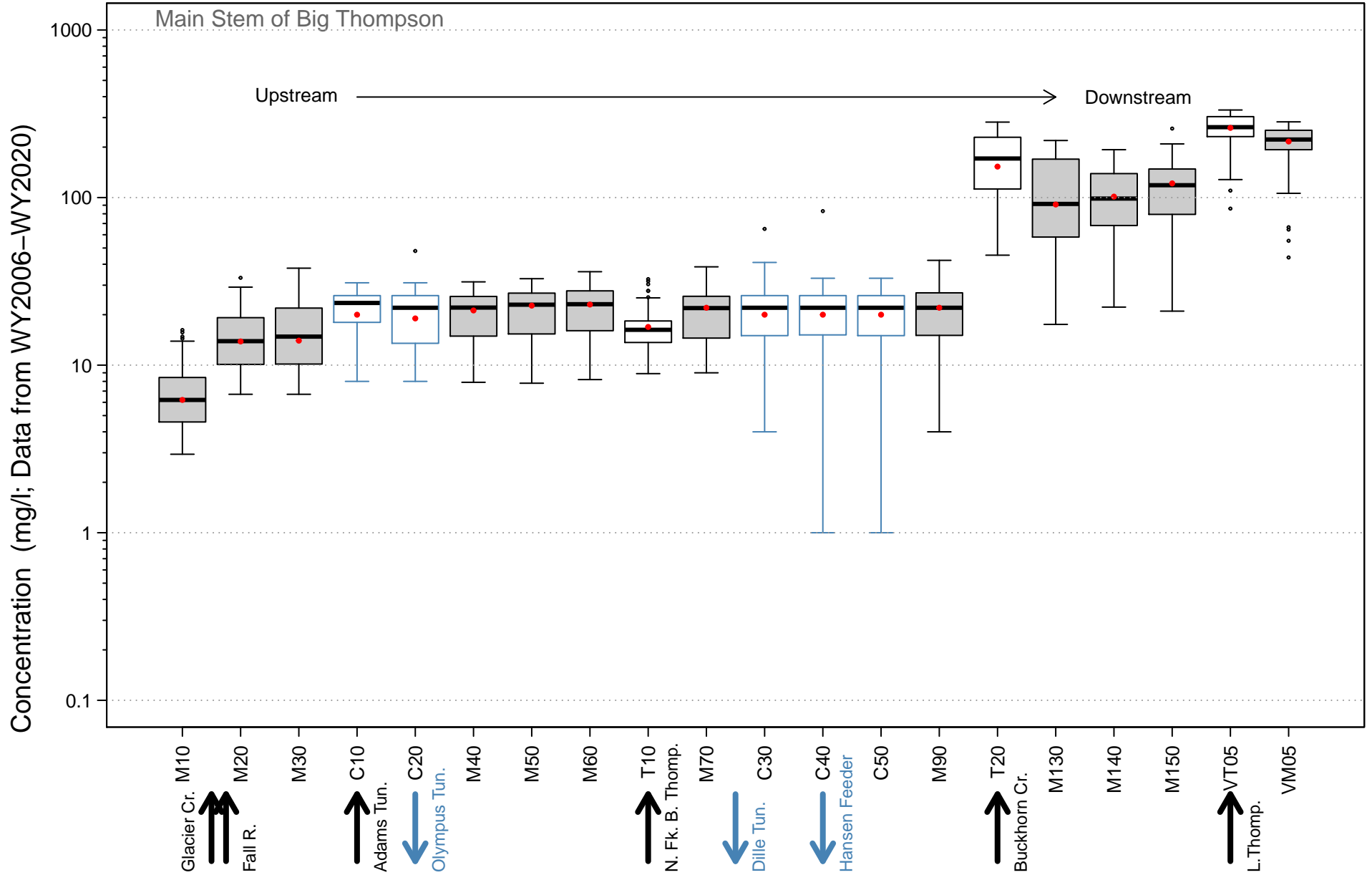


Figure C2–16
Big Thompson Report 2021
Concentration Box Plots
Alkalinity

Dissolved oxygen (DO)

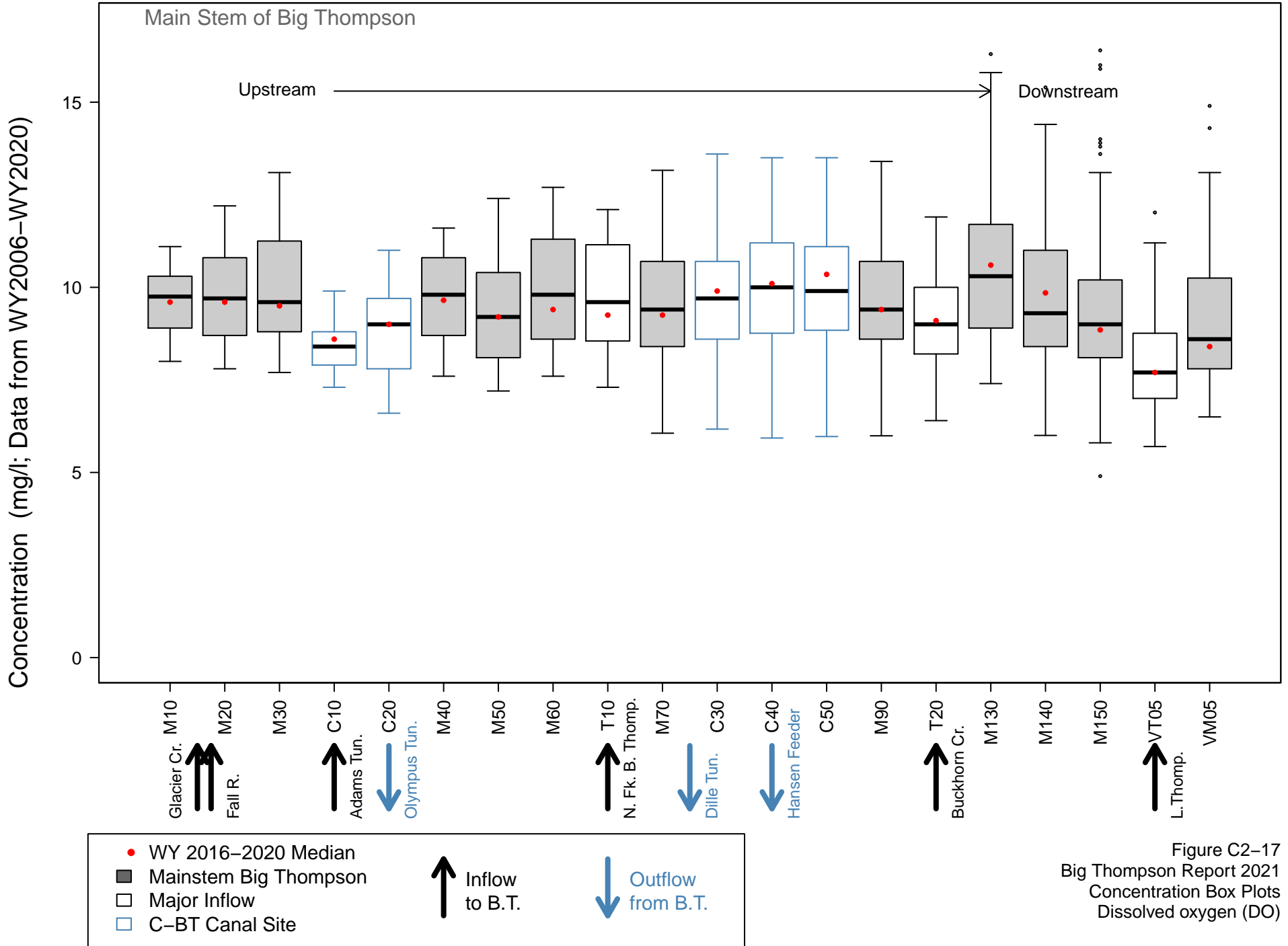


Figure C2-17
Big Thompson Report 2021
Concentration Box Plots
Dissolved oxygen (DO)

Hardness

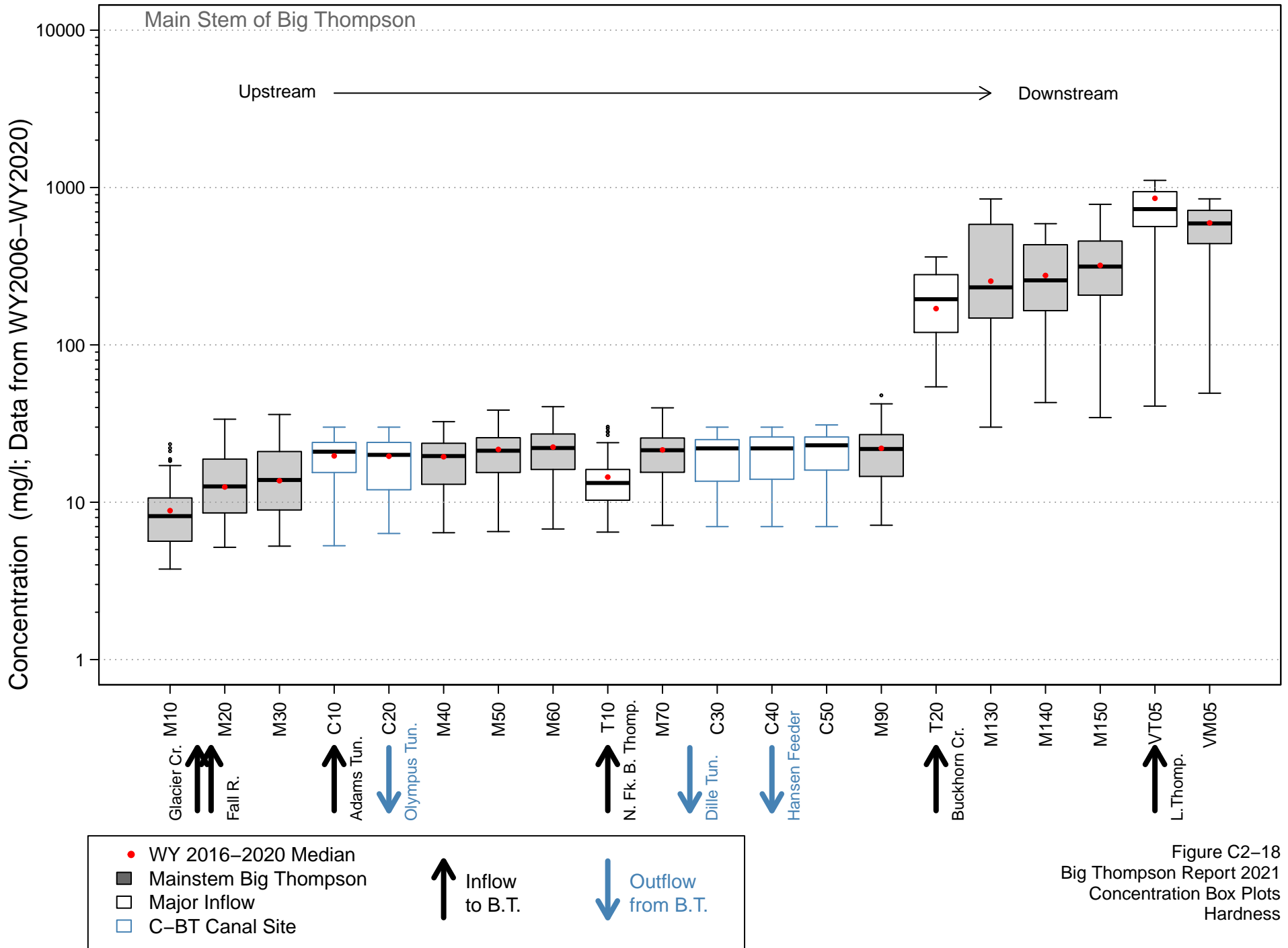


Figure C2–18
Big Thompson Report 2021
Concentration Box Plots
Hardness

Concentration (std units; Data from WY2006–WY2020)

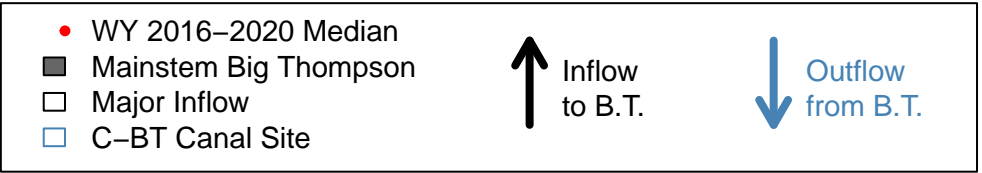
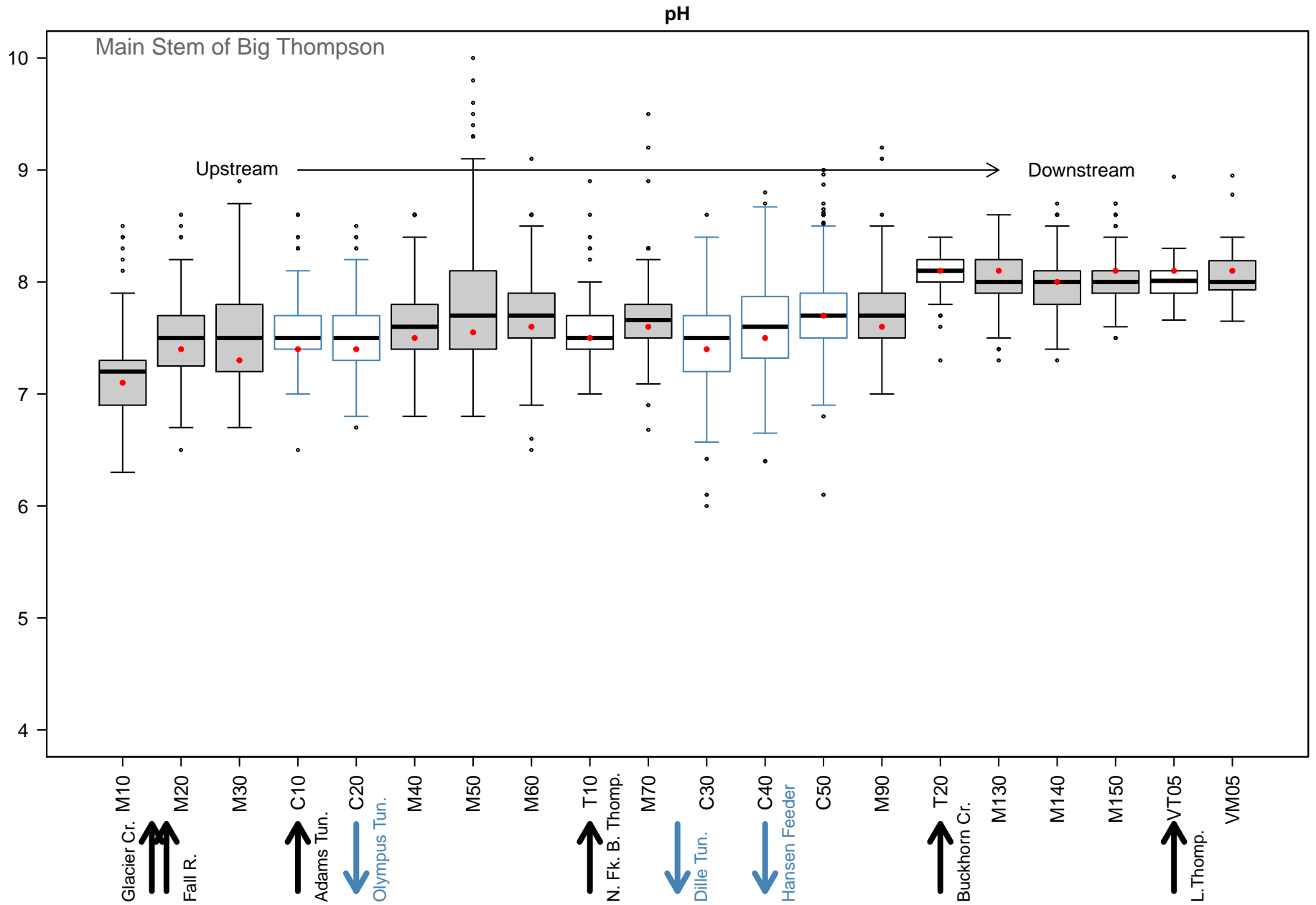


Figure C2-19
Big Thompson Report 2021
Concentration Box Plots
pH

Specific conductance

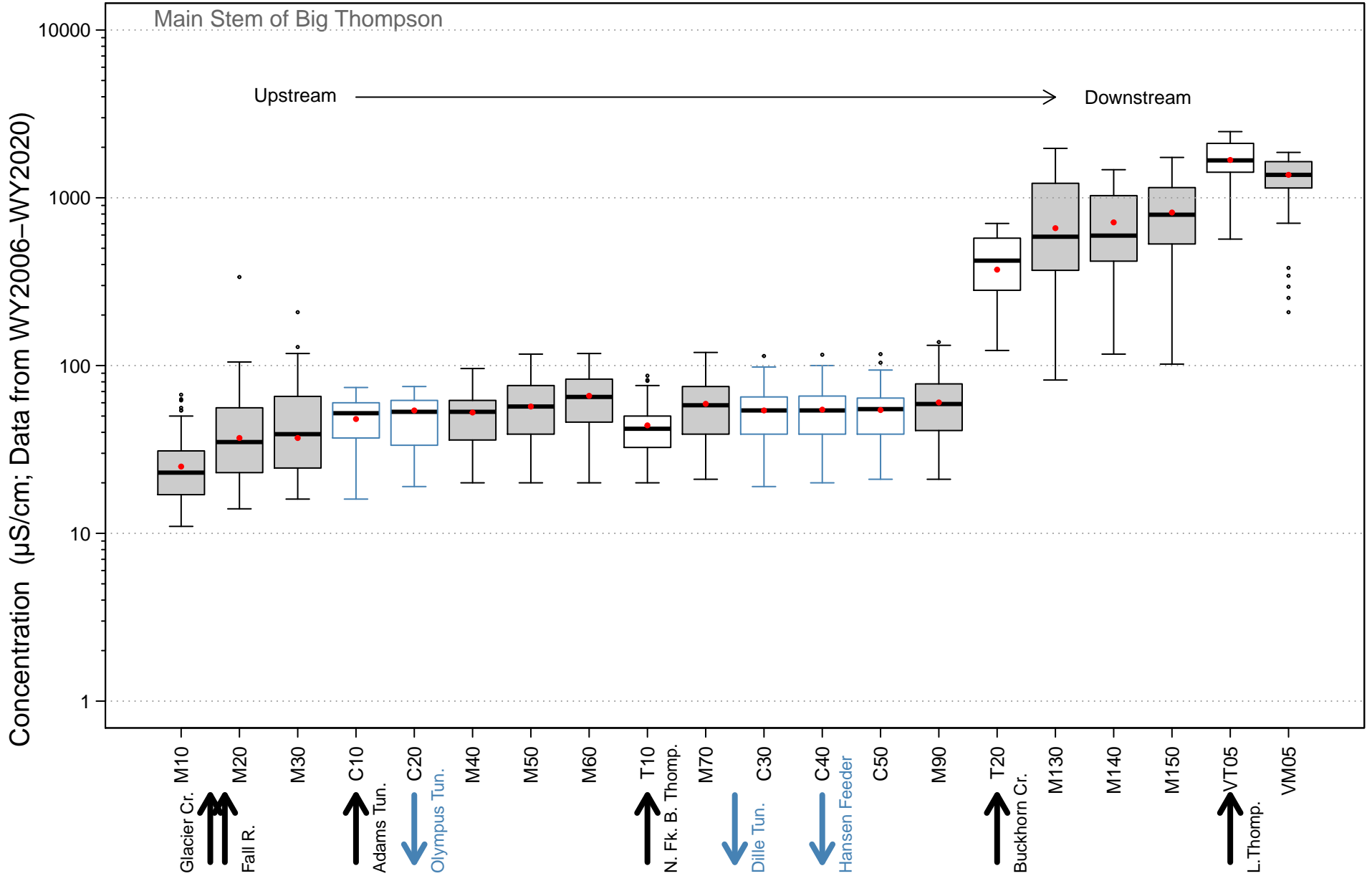


Figure C2–20
Big Thompson Report 2021
Concentration Box Plots
Specific conductance

Temperature

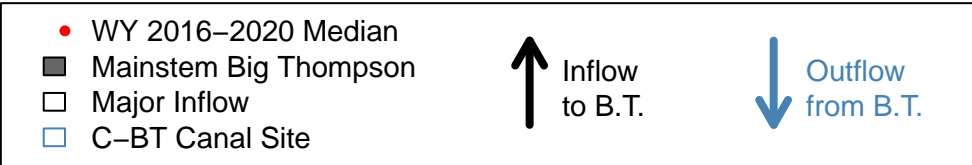
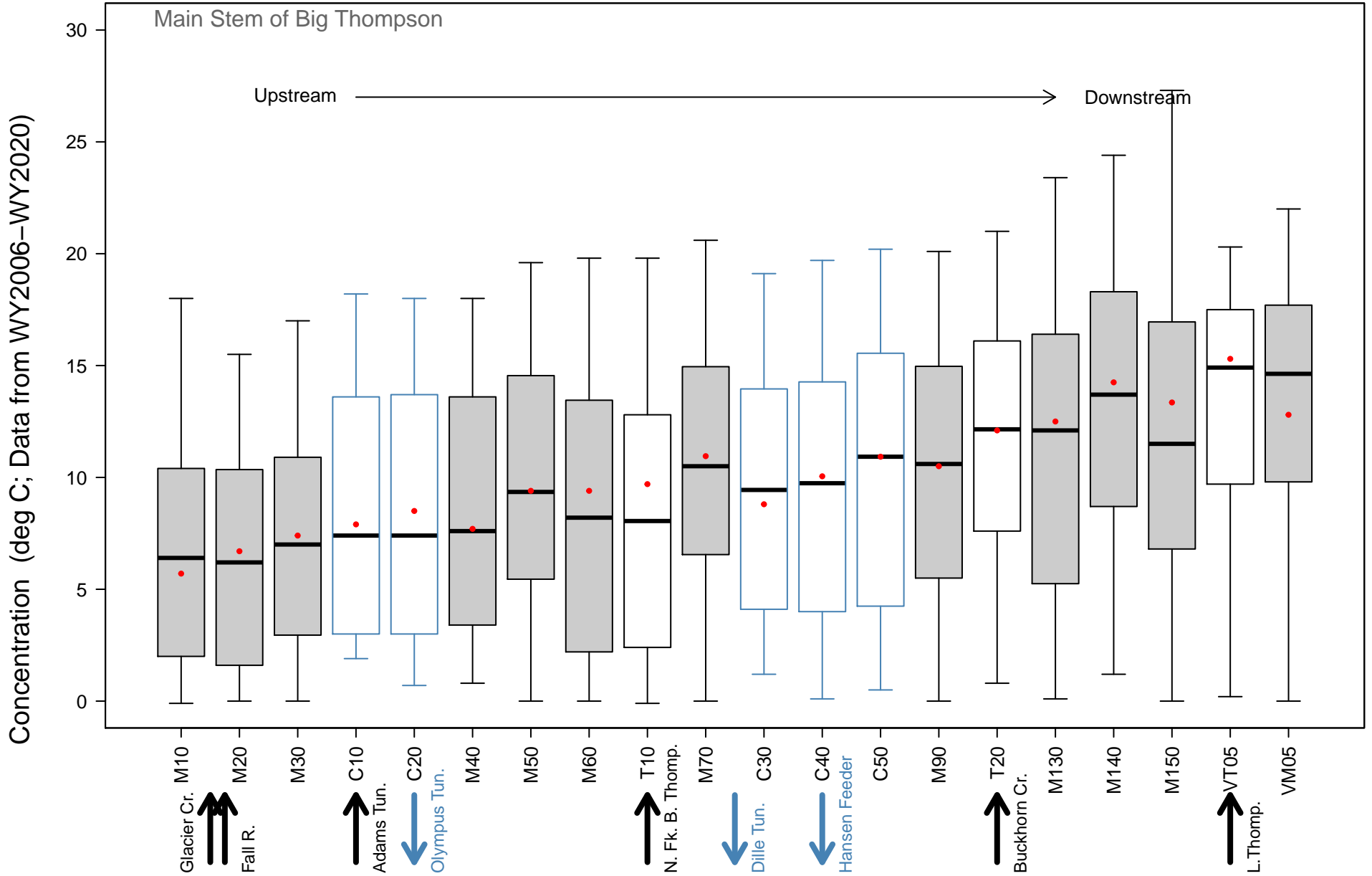


Figure C2–21
Big Thompson Report 2021
Concentration Box Plots
Temperature

Total Organic Carbon (TOC)

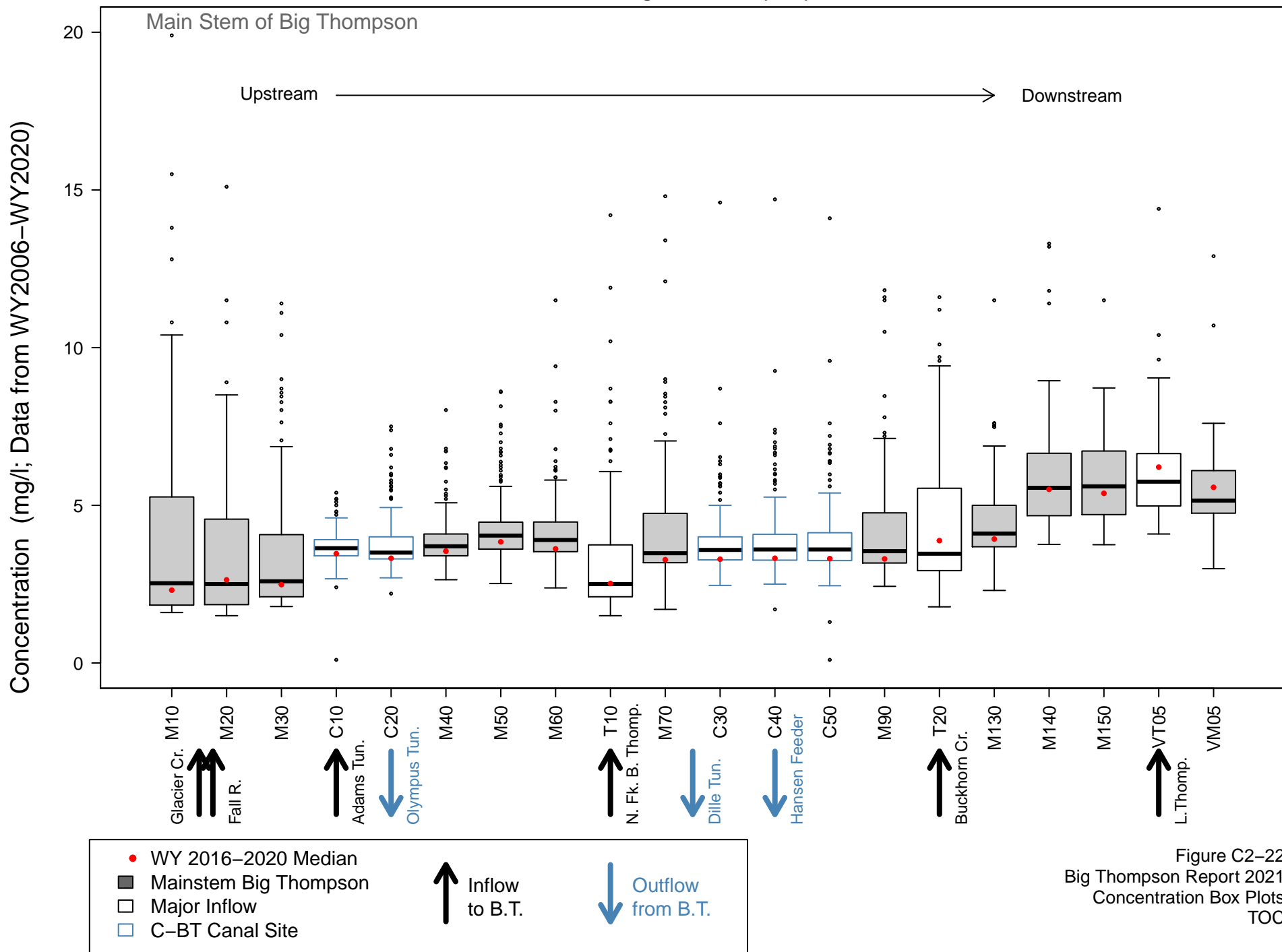


Figure C2-22
Big Thompson Report 2021
Concentration Box Plots
TOC

Total Suspended Solids (TSS)

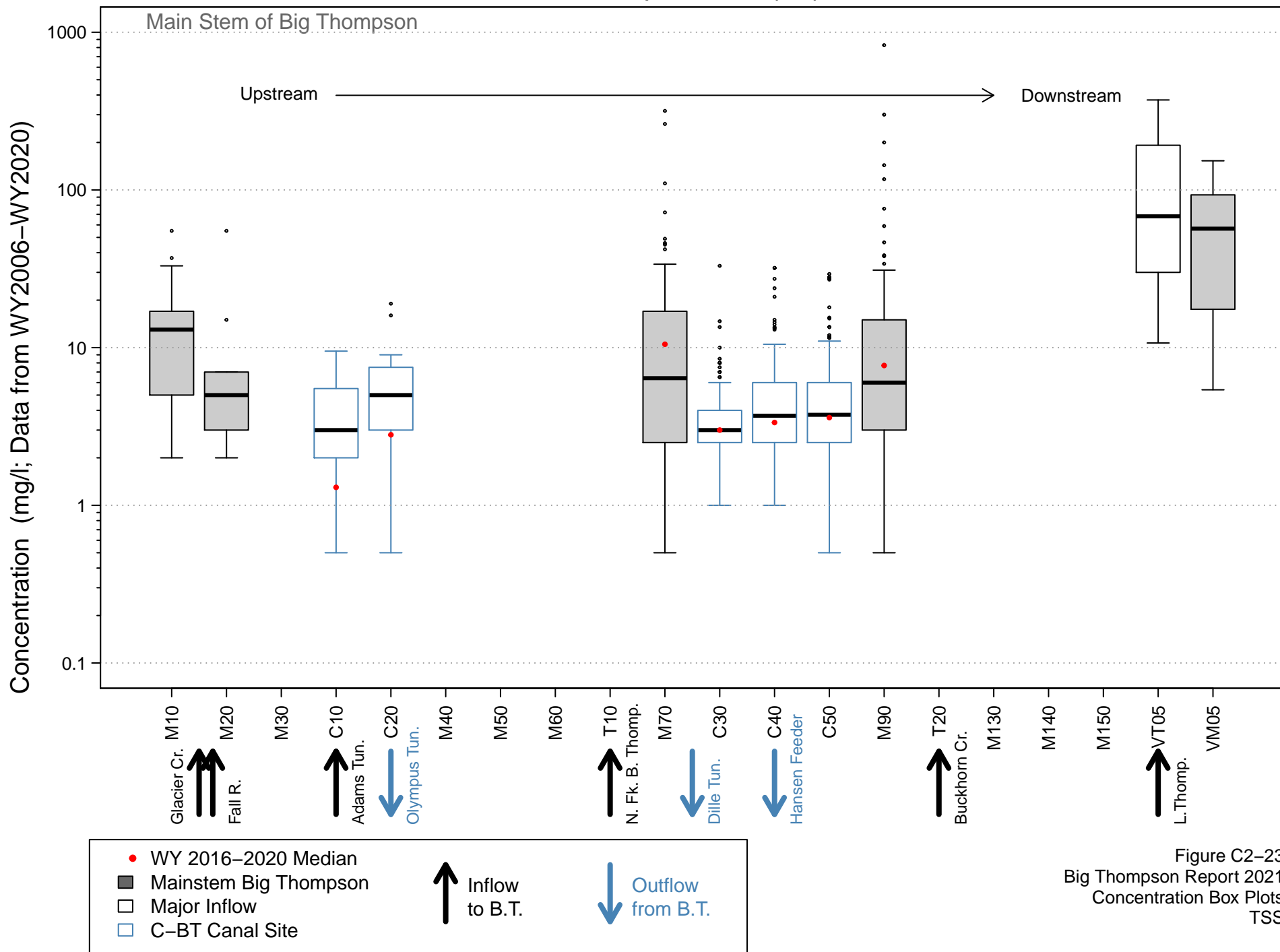


Figure C2-23
Big Thompson Report 2021
Concentration Box Plots
TSS

Sulfate

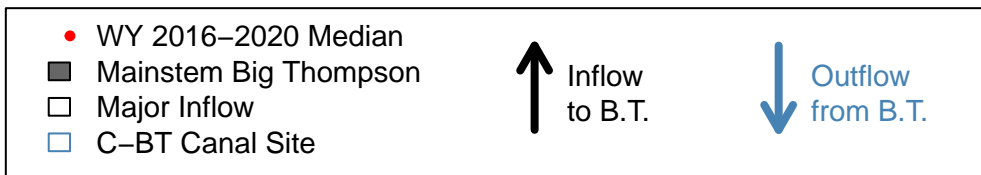
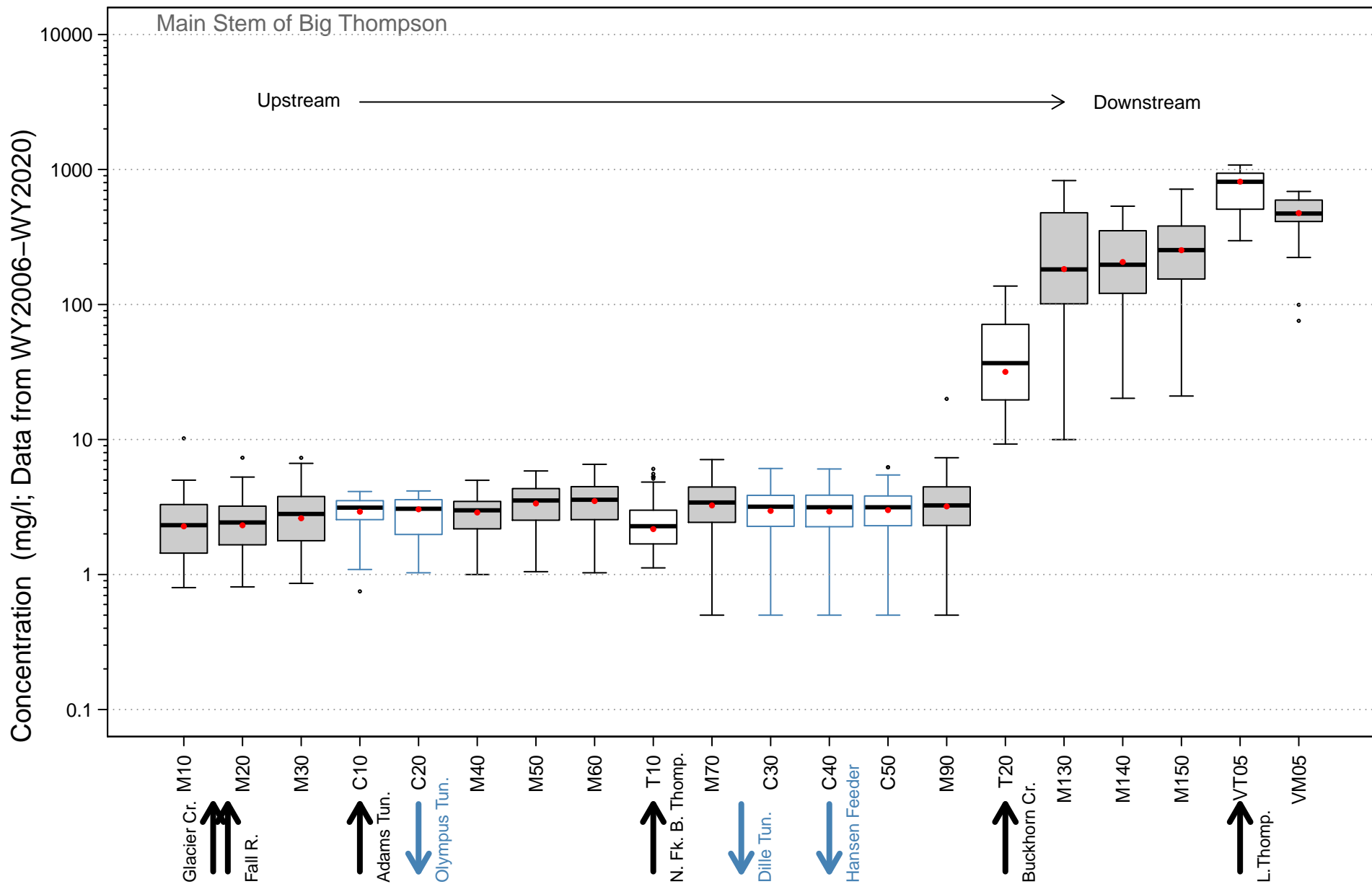


Figure C2-24
Big Thompson Report 2021
Concentration Box Plots
Sulfate

Ammonia (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

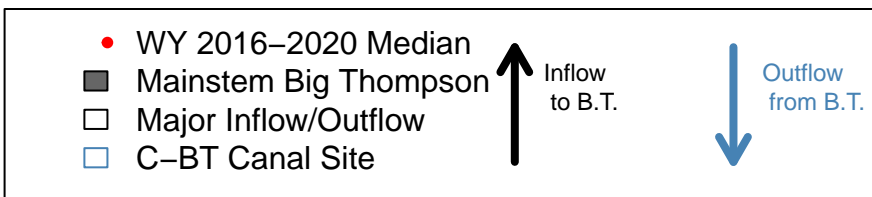
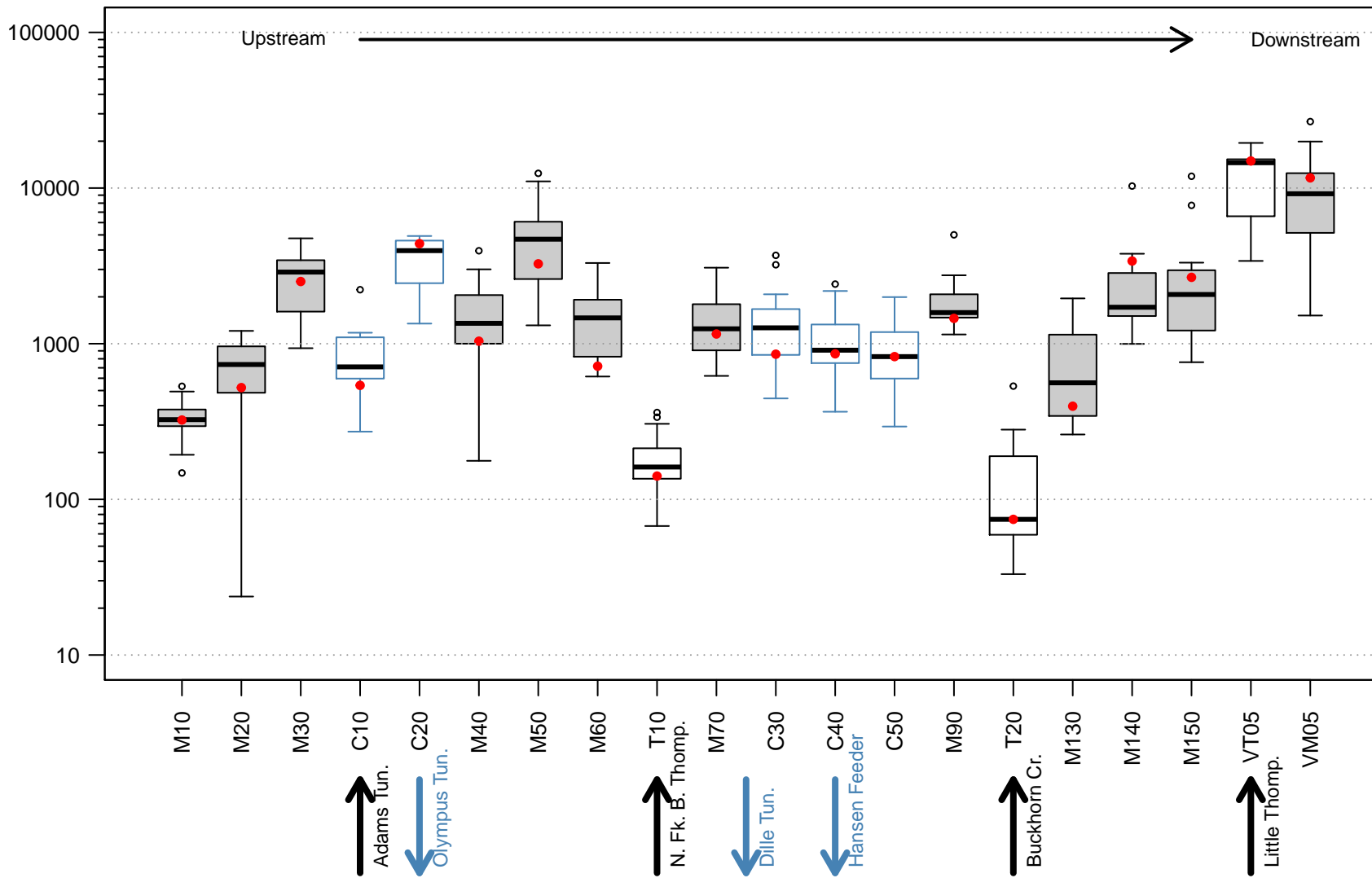


Figure D1–1
Big Thompson 2021 Report
Annual Load Box Plot
Ammonia (0.5 DL)

Ammonia (0 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

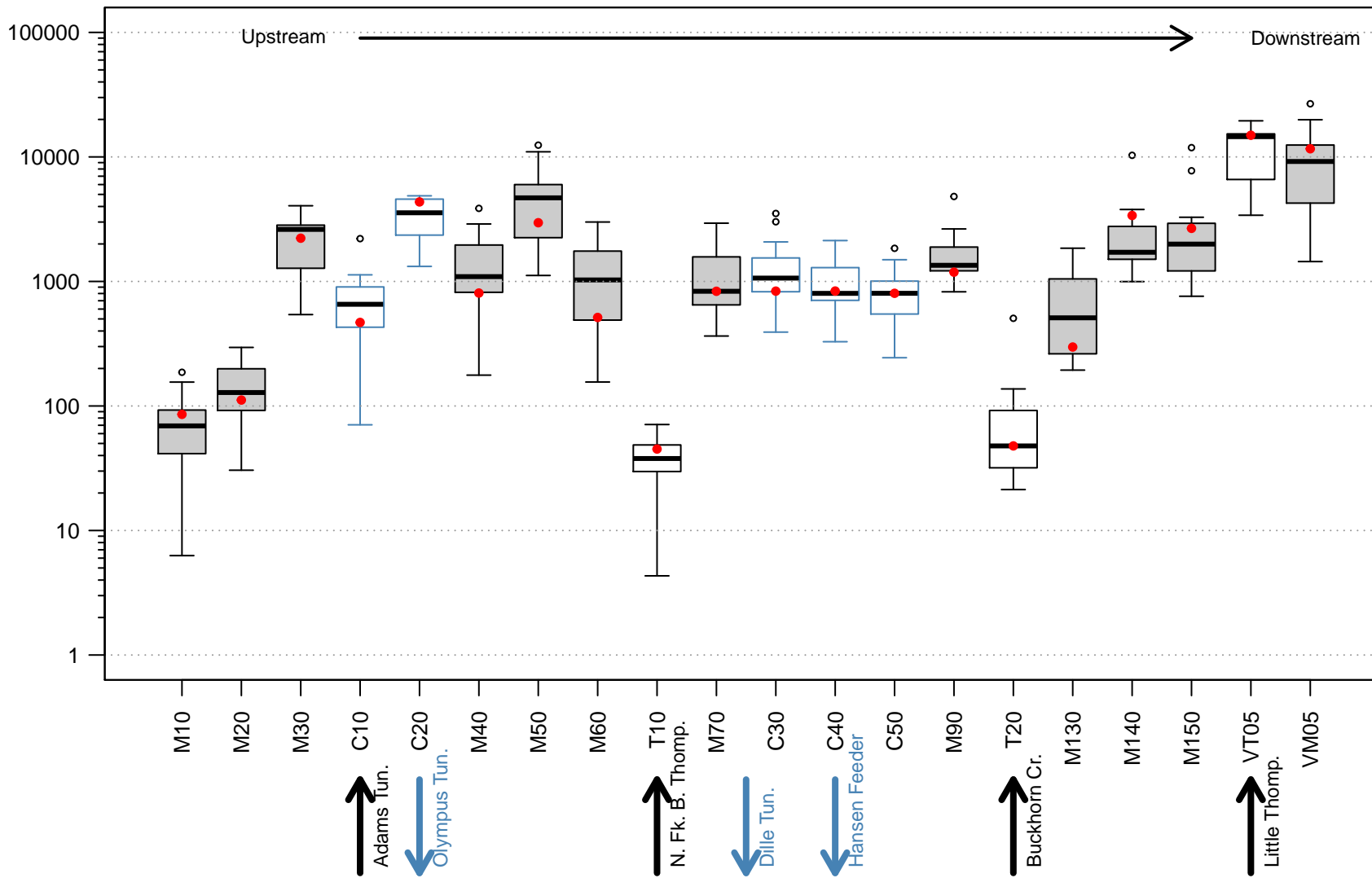


Figure D1–2
Big Thompson 2021 Report
Annual Load Box Plot
Ammonia (0 DL)

Dissolved Phosphorous (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

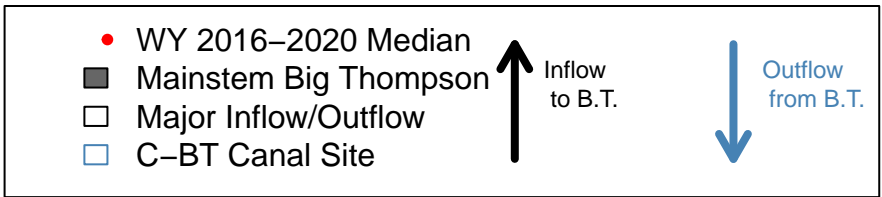
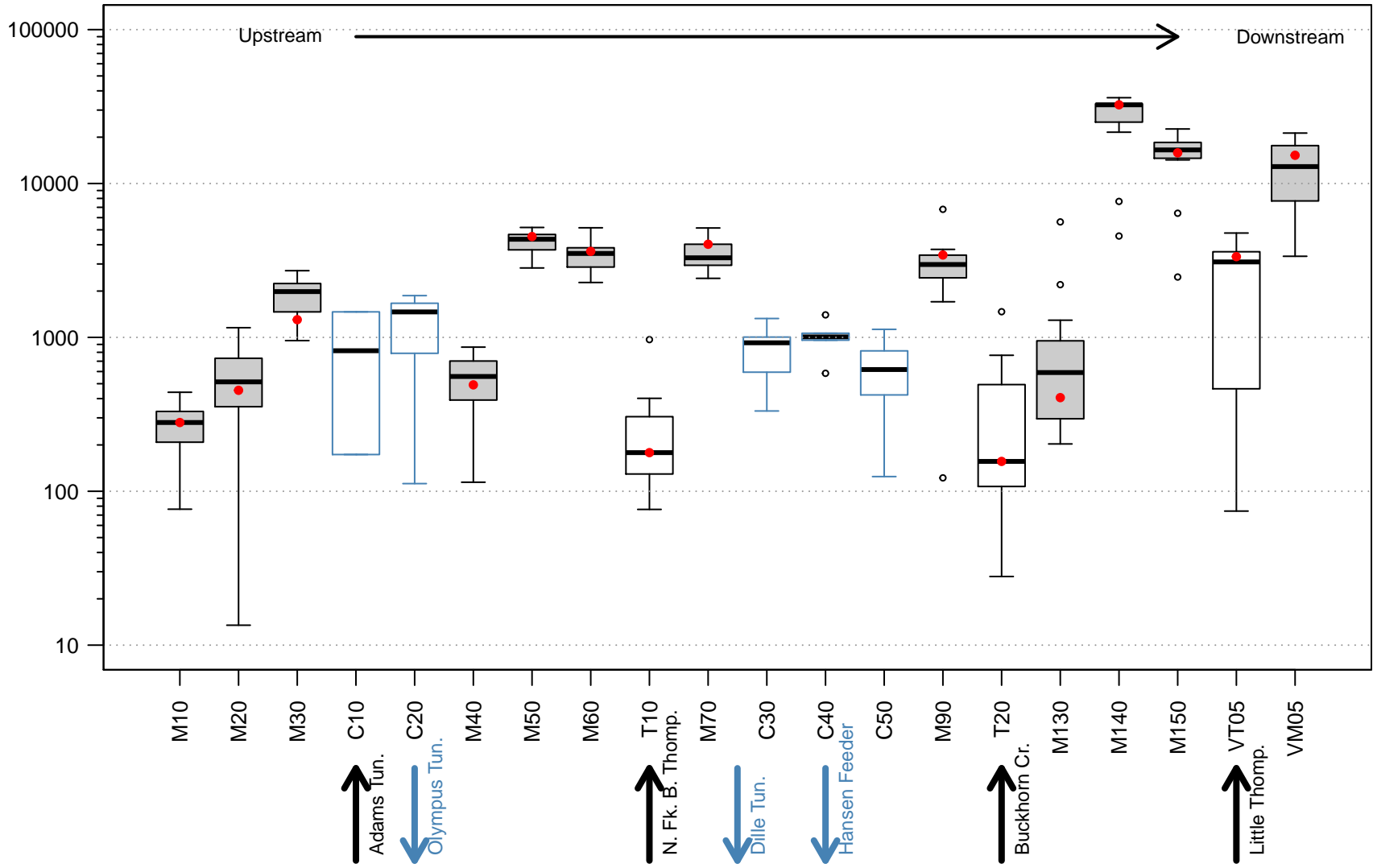


Figure D1–3
Big Thompson 2021 Report
Annual Load Box Plot
Dissolved Phosphorous (0.5 DL)

Nitrate+Nitrite (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

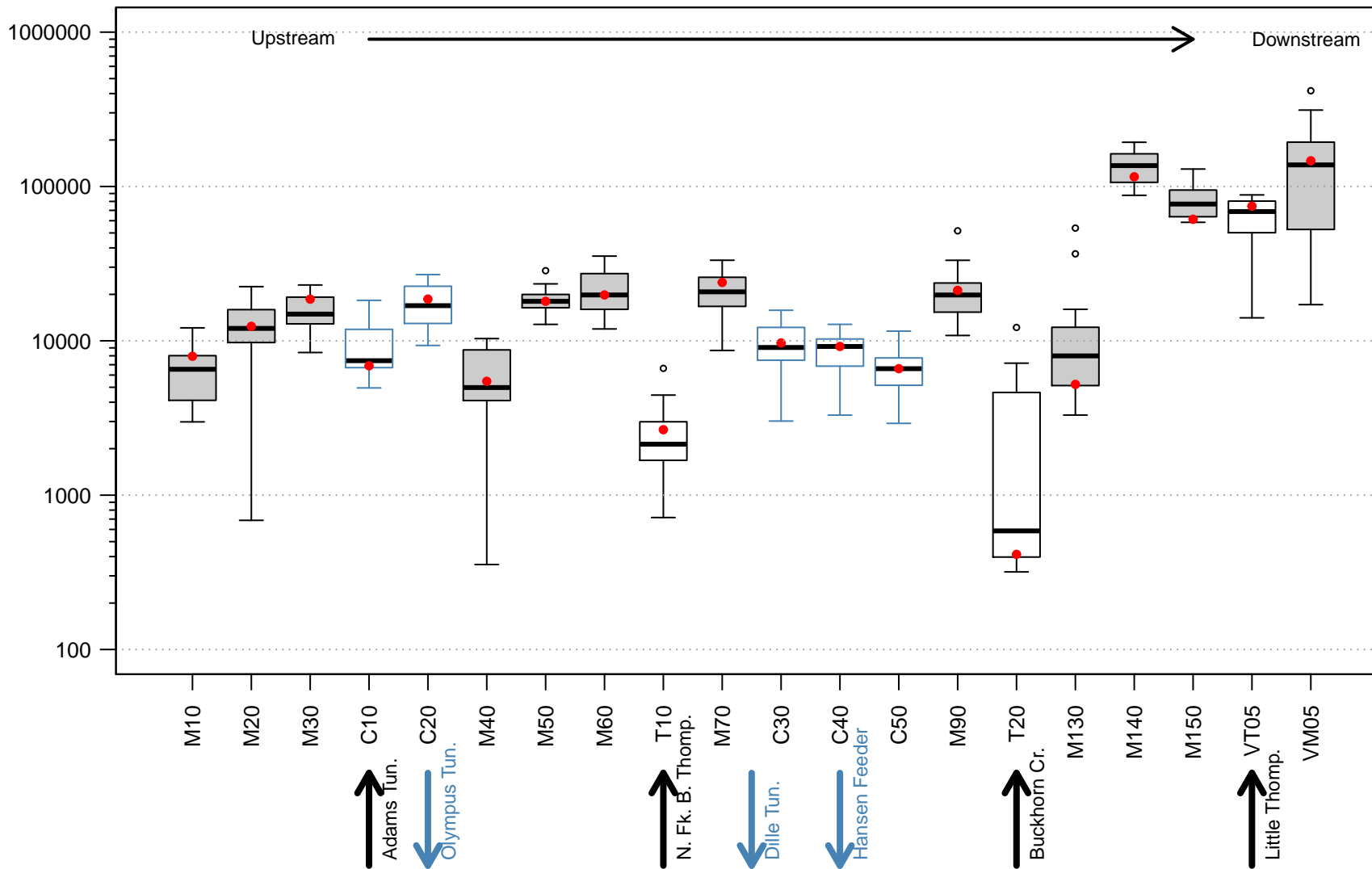


Figure D1–4
Big Thompson 2021 Report
Annual Load Box Plot
Nitrate+Nitrite (0.5 DL)

Orthophosphate (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

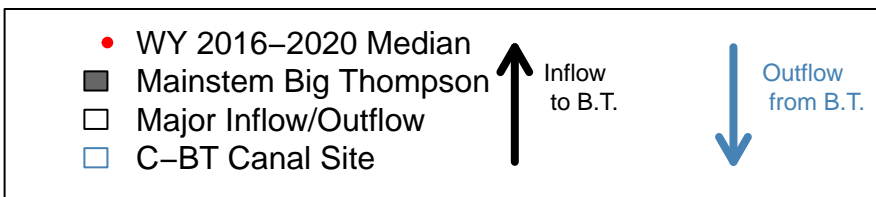
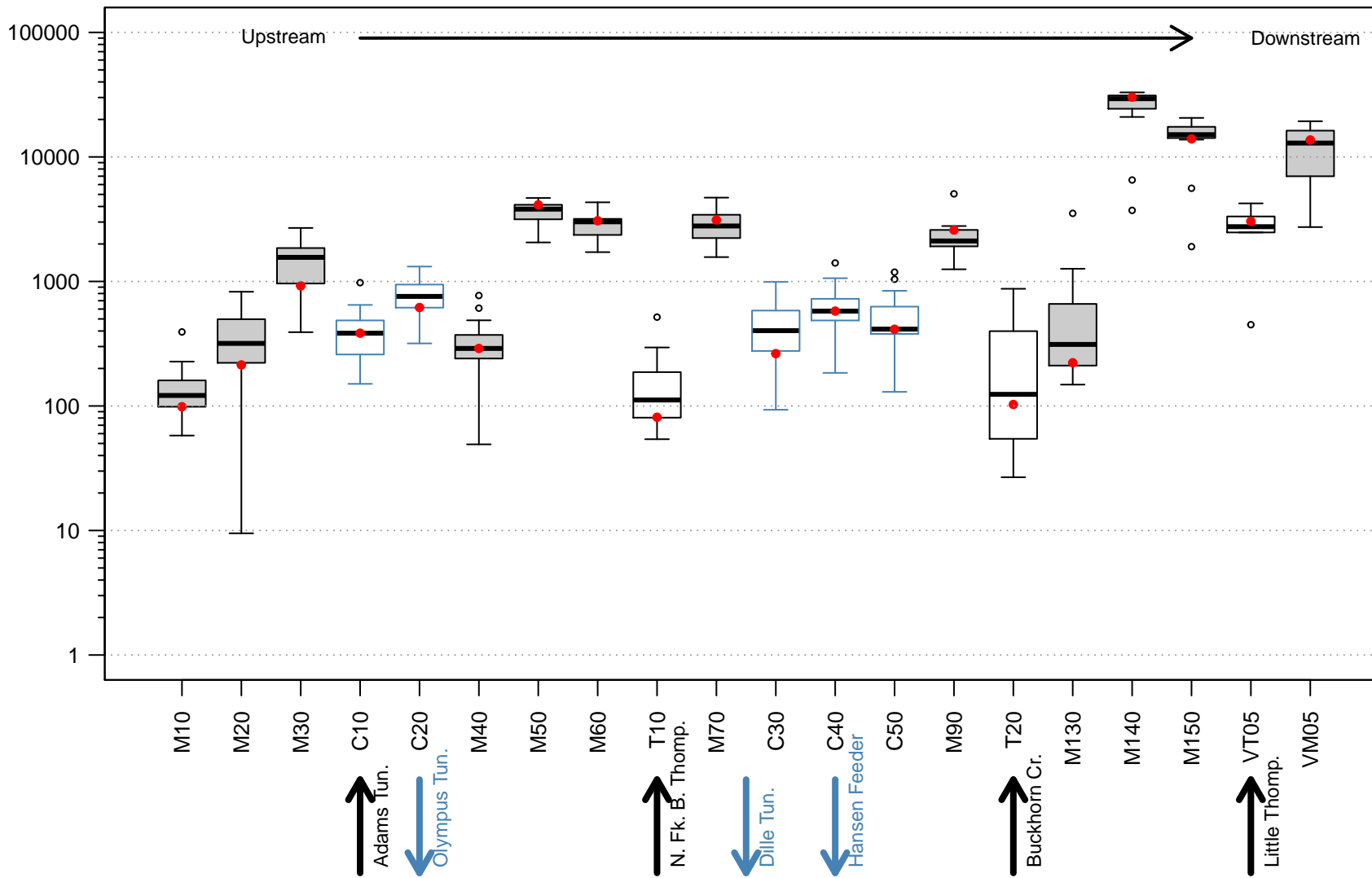


Figure D1–5
Big Thompson 2021 Report
Annual Load Box Plot
Orthophosphate (0.5 DL)

Orthophosphate (0 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

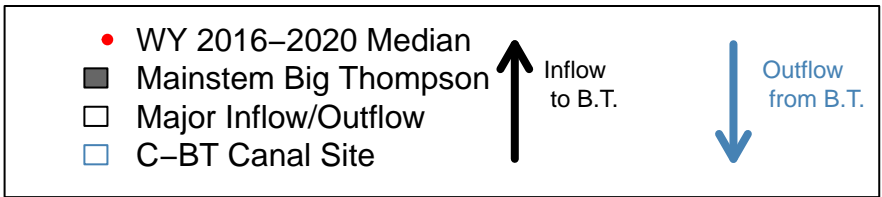
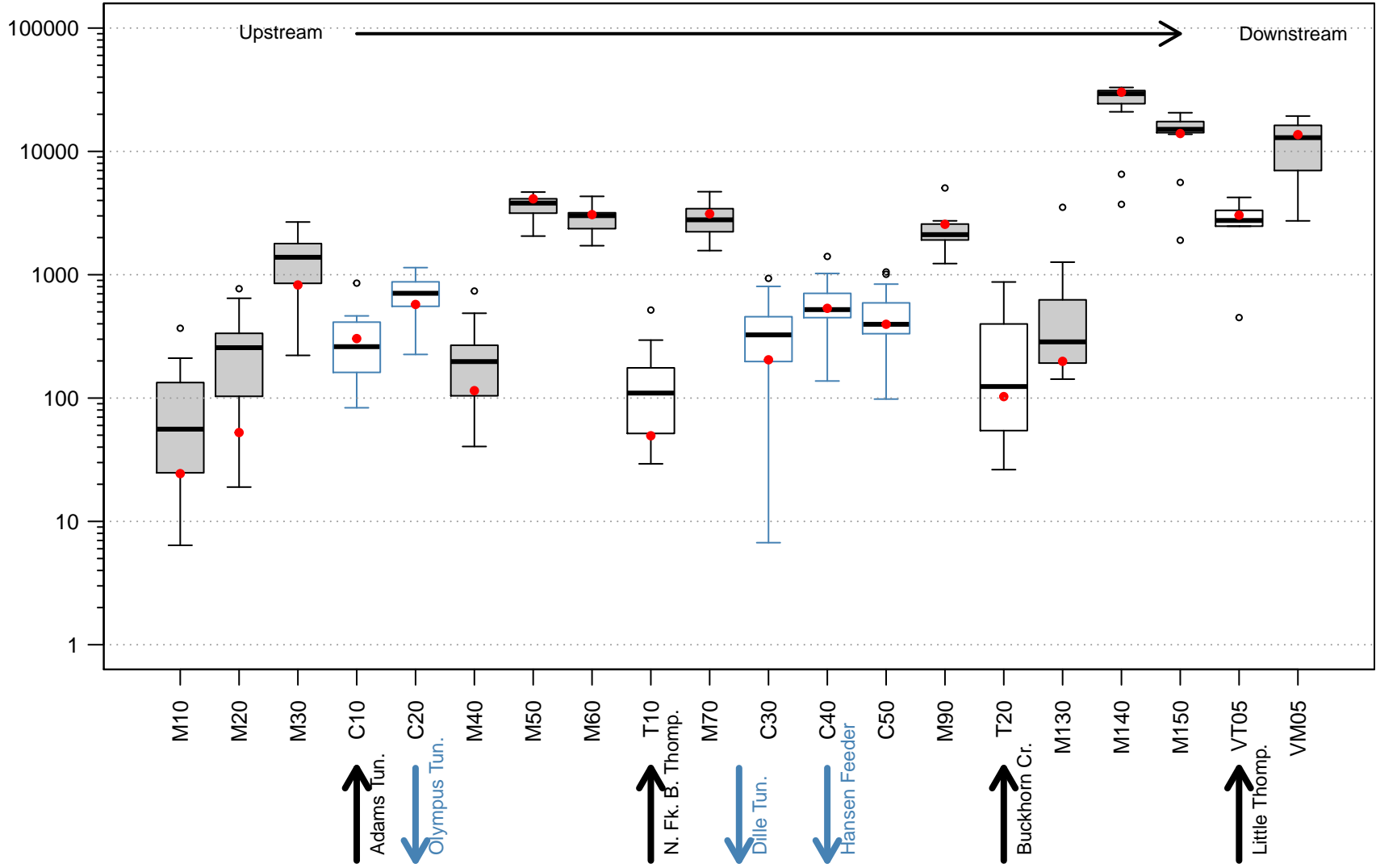


Figure D1–6
Big Thompson 2021 Report
Annual Load Box Plot
Orthophosphate (0 DL)

Total Kjeldahl Nitrogen (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

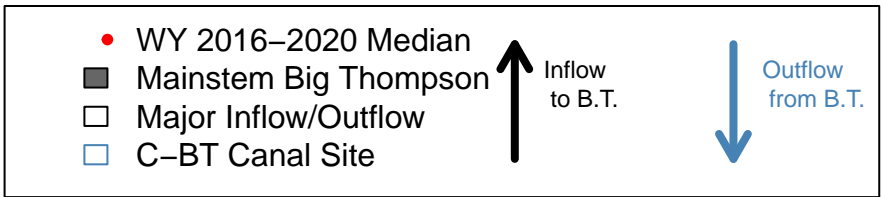
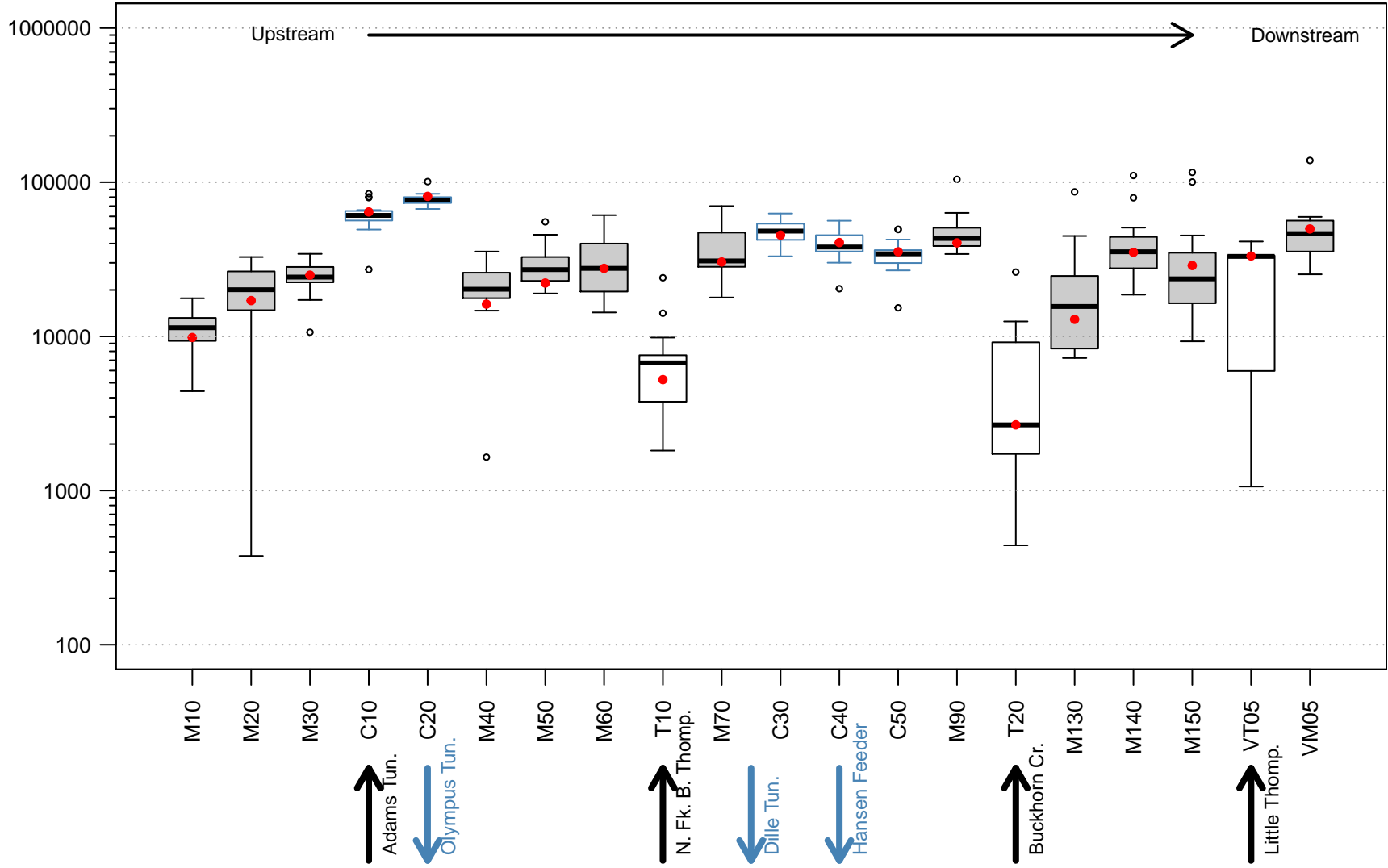


Figure D1-7
Big Thompson 2021 Report
Annual Load Box Plot
Total Kjeldahl Nitrogen (0.5 DL)

TOC (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

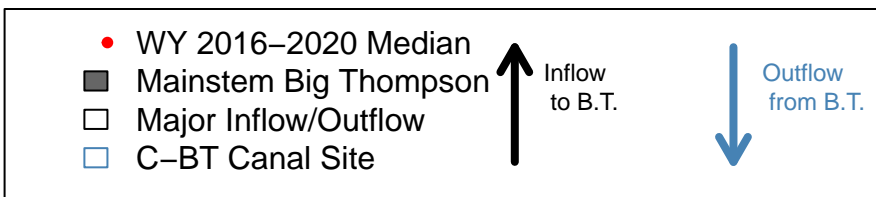
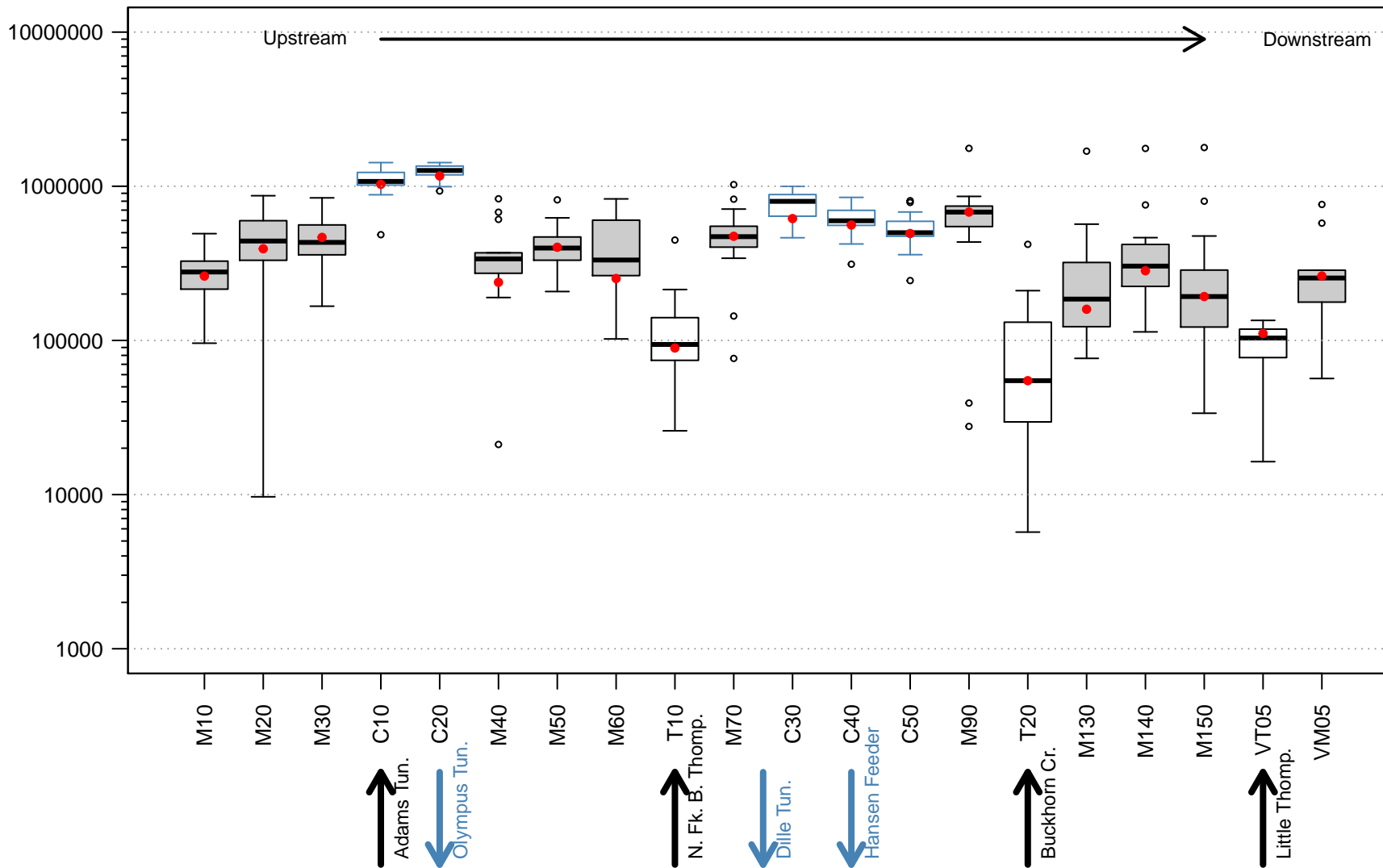


Figure D1–8
Big Thompson 2021 Report
Annual Load Box Plot
TOC (0.5 DL)

Total Nitrogen (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

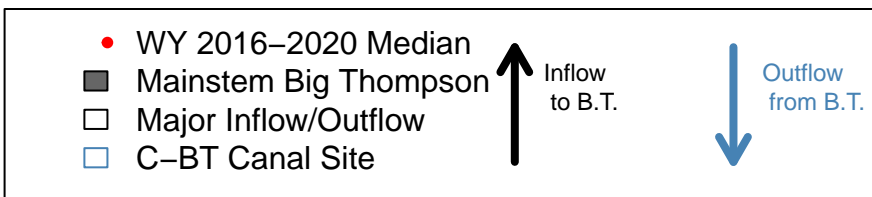
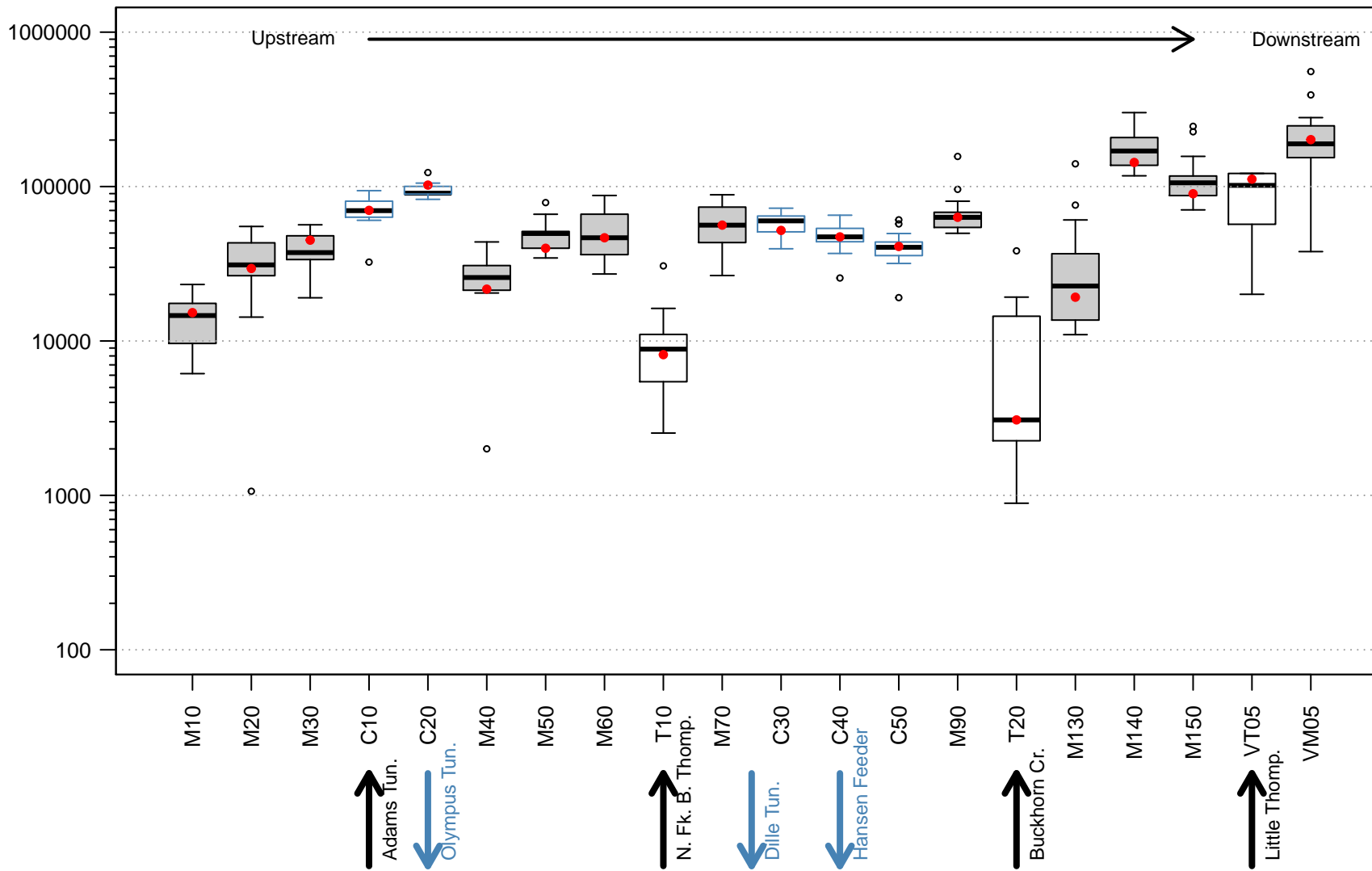


Figure D1–9
Big Thompson 2021 Report
Annual Load Box Plot
Total Nitrogen (0.5 DL)

Annual Load (kg/yr; Data from WY2006–WY2020)

Total Phosphorous (0.5 DL)

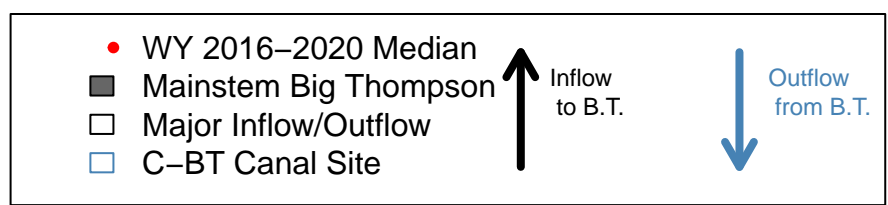
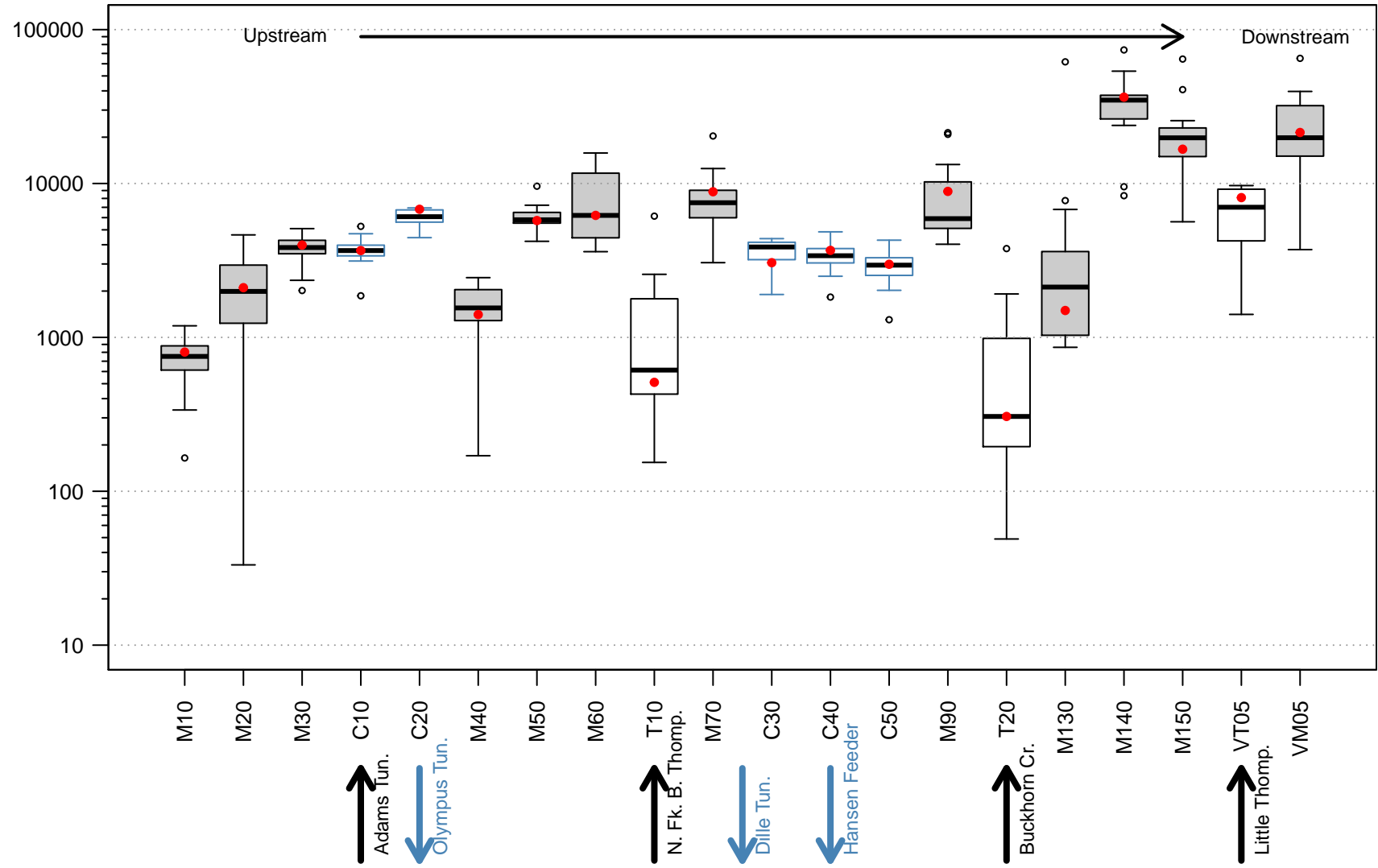


Figure D1–10
Big Thompson 2021 Report
Annual Load Box Plot
Total Phosphorous (0.5 DL)

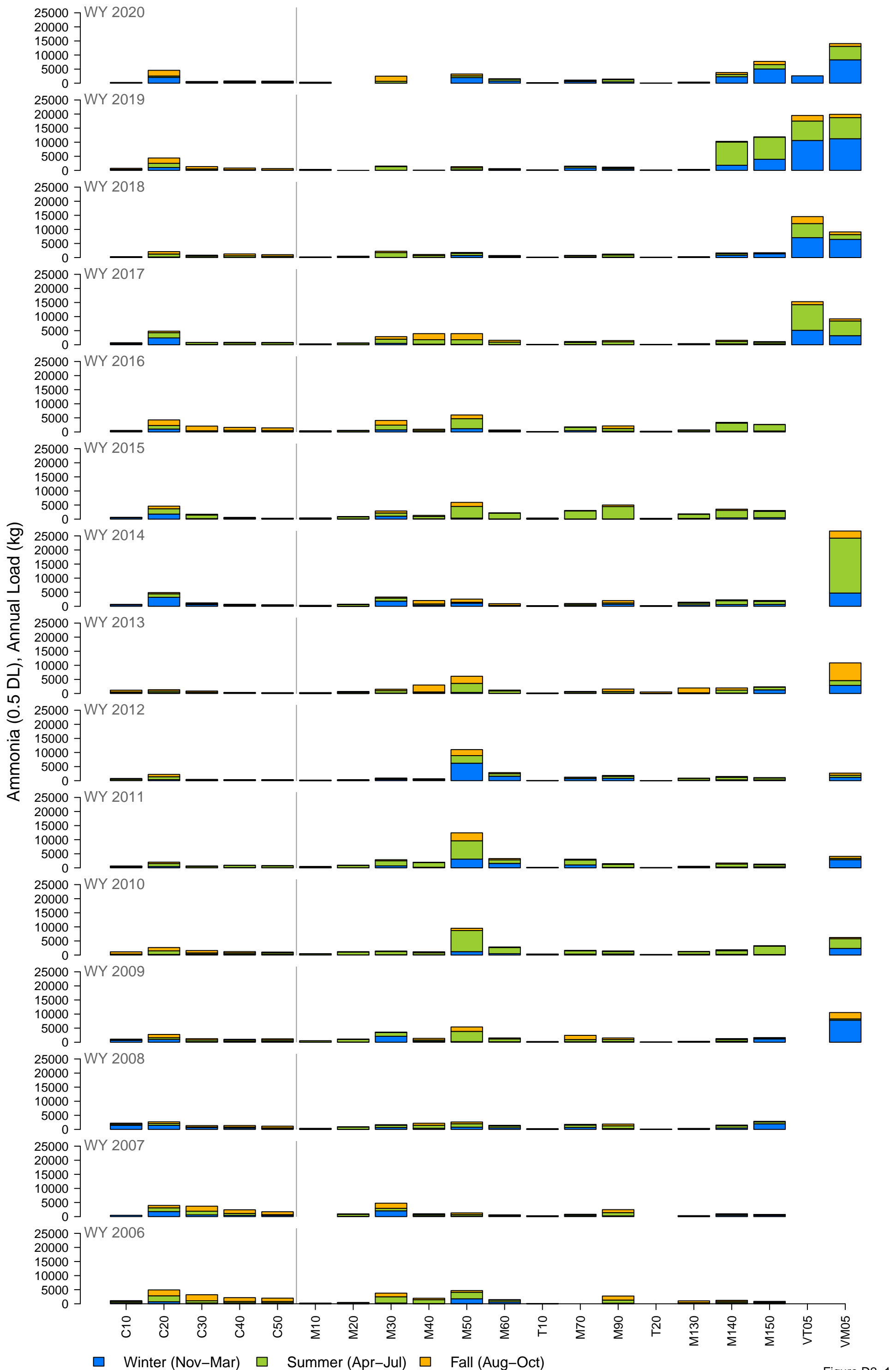
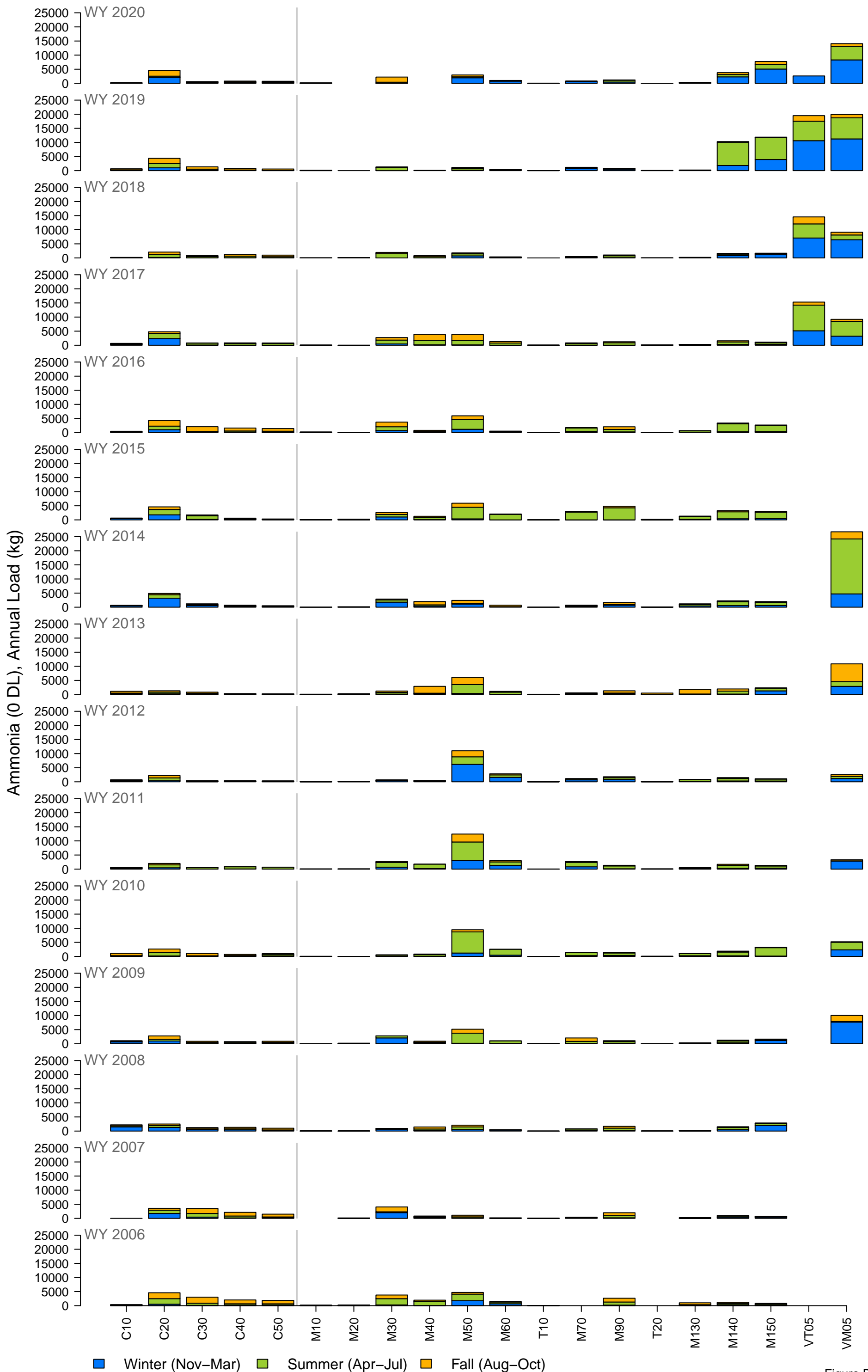
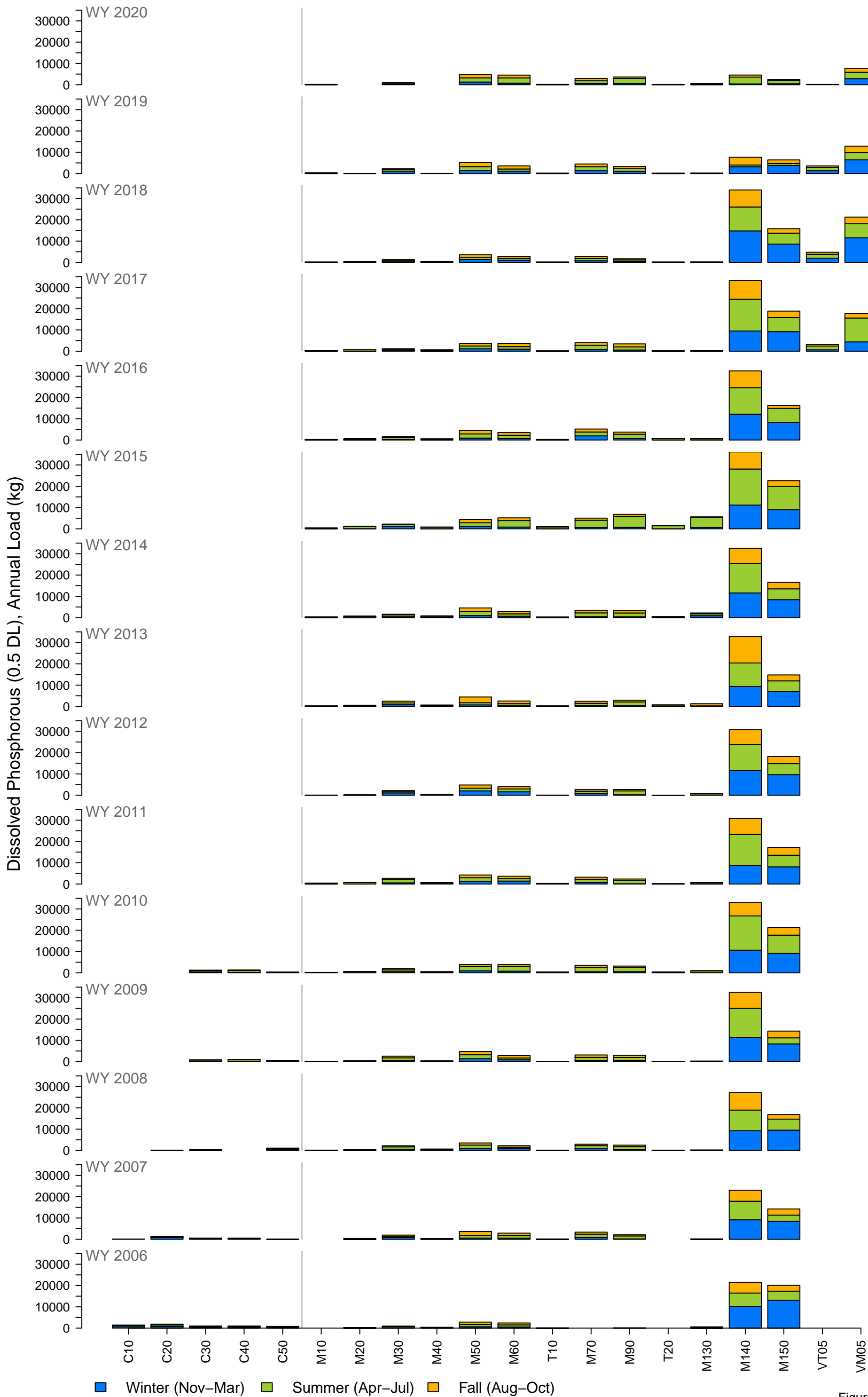


Figure D2-1
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Ammonia (0.5 DL)



■ Winter (Nov-Mar) ■ Summer (Apr-Jul) ■ Fall (Aug-Oct)

Figure D2-2
Big Thompson 2021 Report
Annual Loads Bar Plots
Ammonia (0 DL)



■ Winter (Nov-Mar)
 ■ Summer (Apr-Jul)
 ■ Fall (Aug-Oct)

Figure D2-3
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Dissolved Phosphorus (0.5 DL)

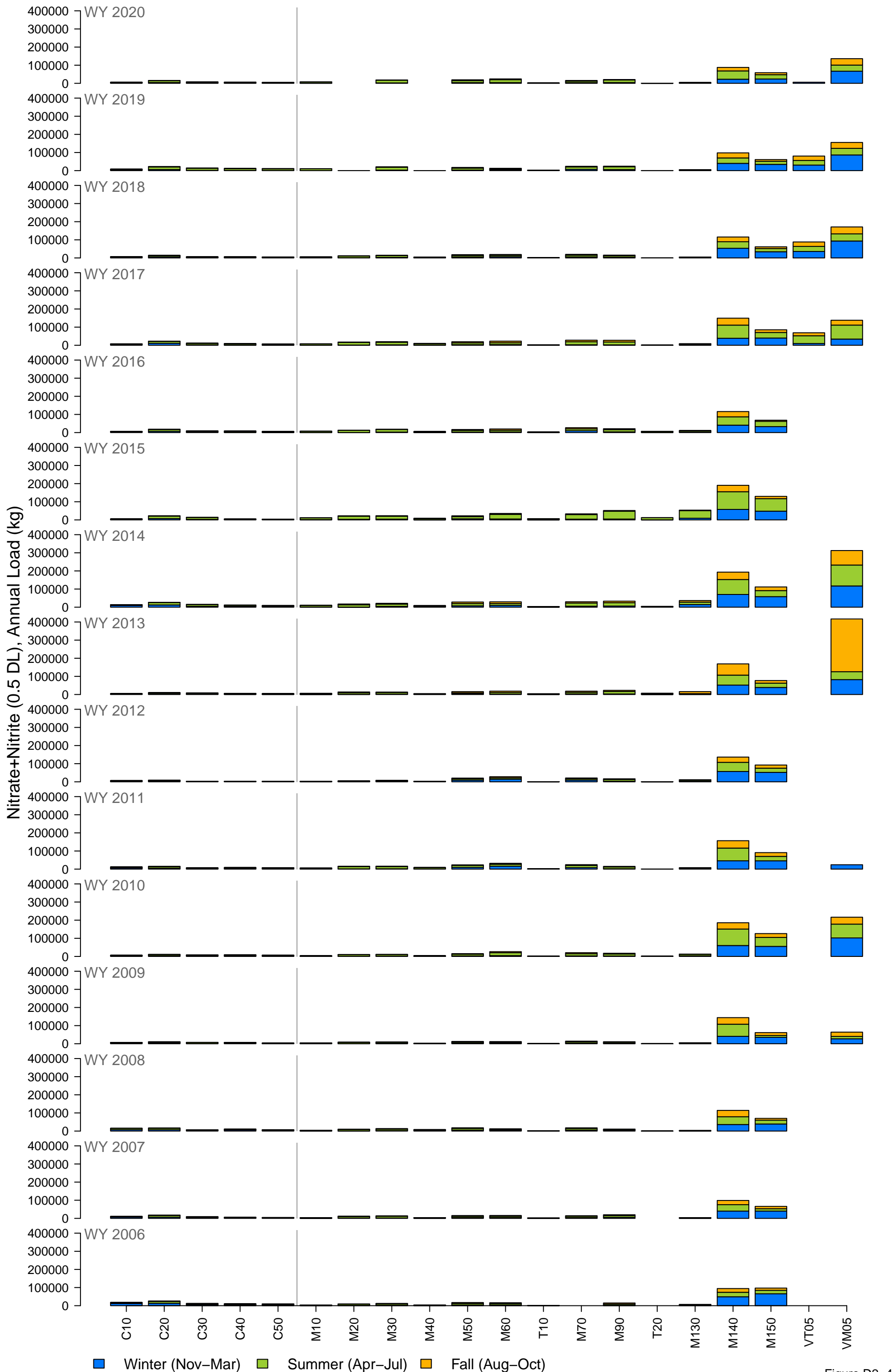


Figure D2-4
Big Thompson 2021 Report
Annual Loads Bar Plots
Nitrate+Nitrite (0.5 DL)

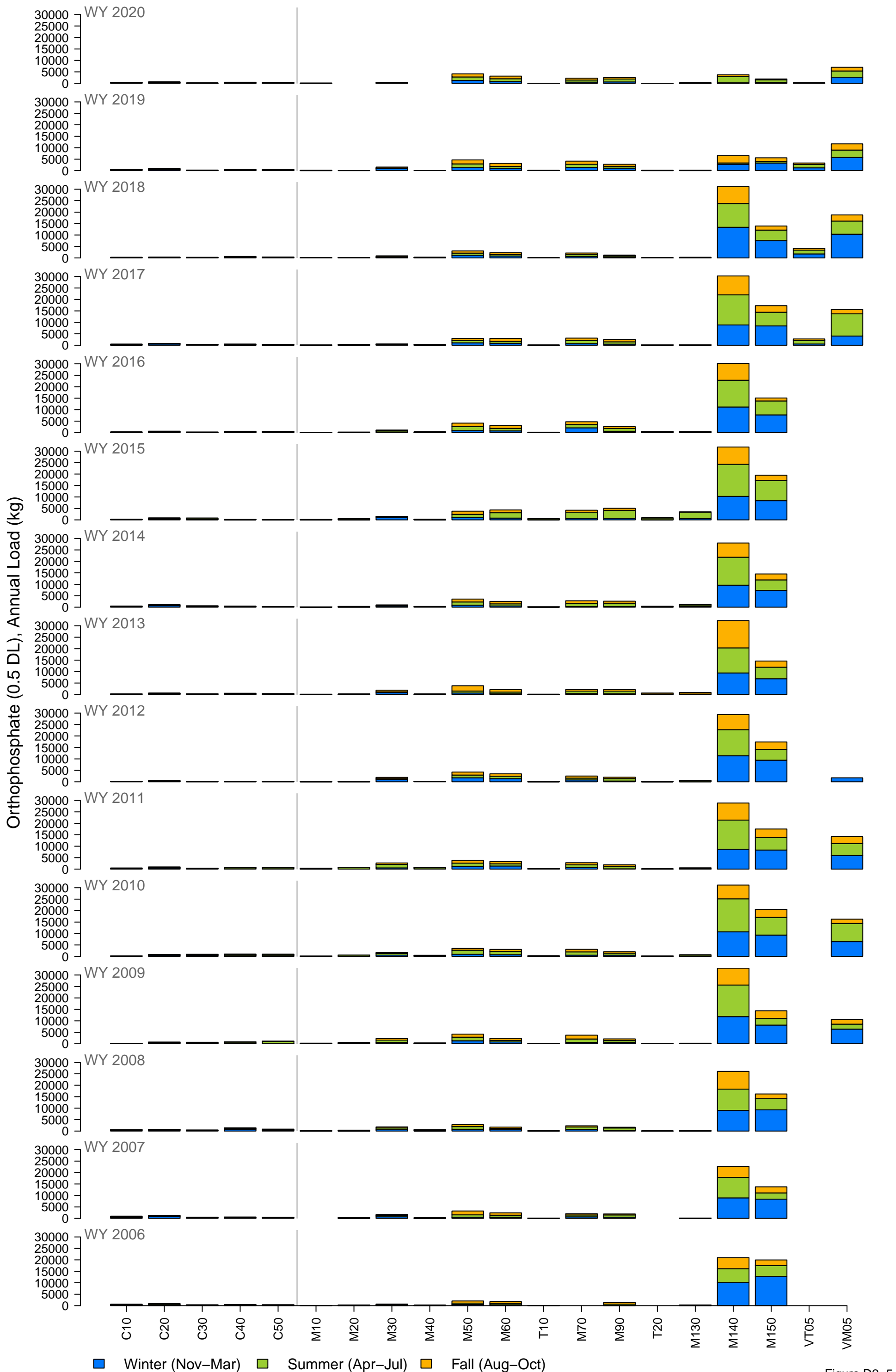


Figure D2-5
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Orthophosphate (0.5 DL)

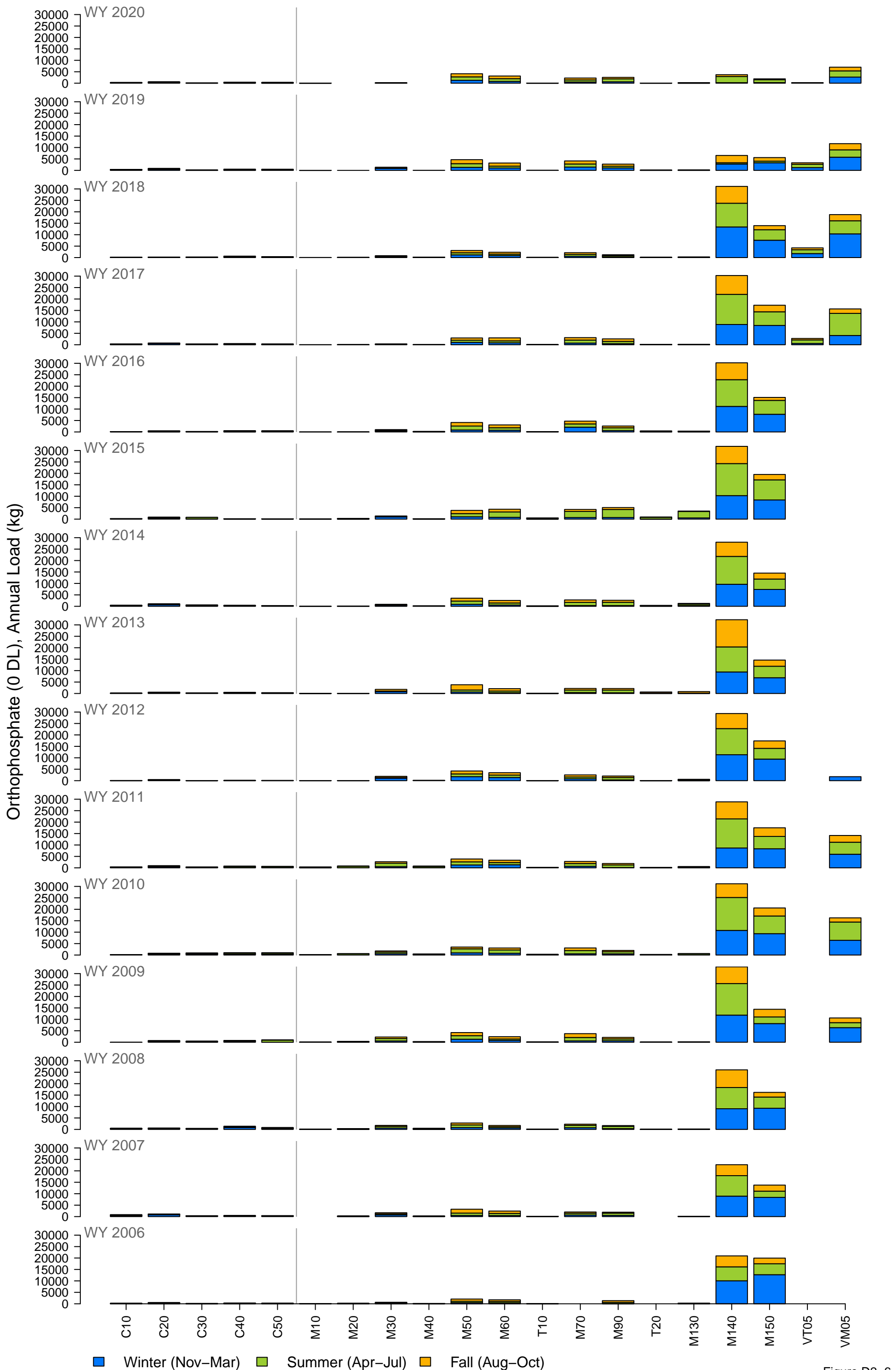


Figure D2–6
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Orthophosphate (0 DL)

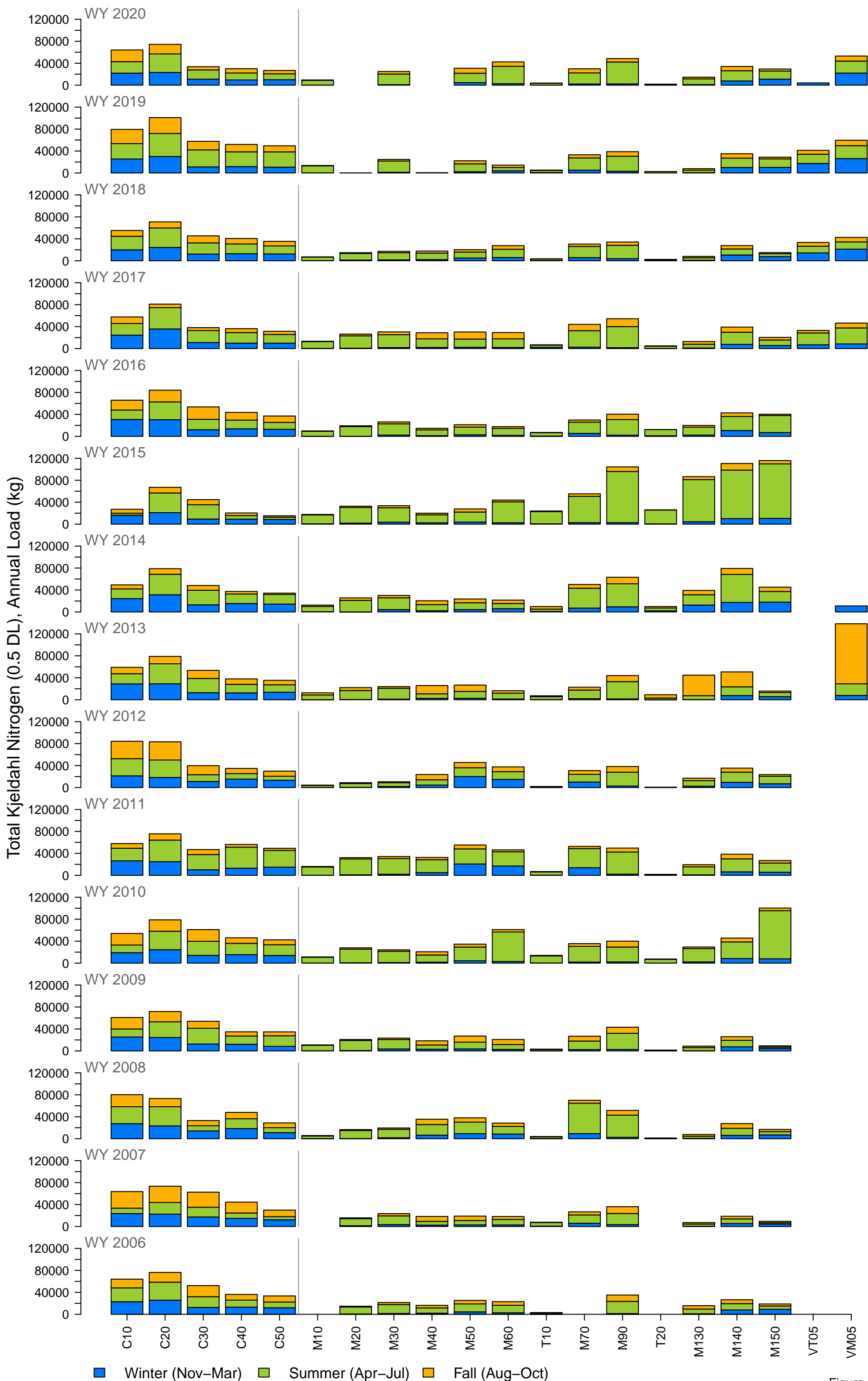
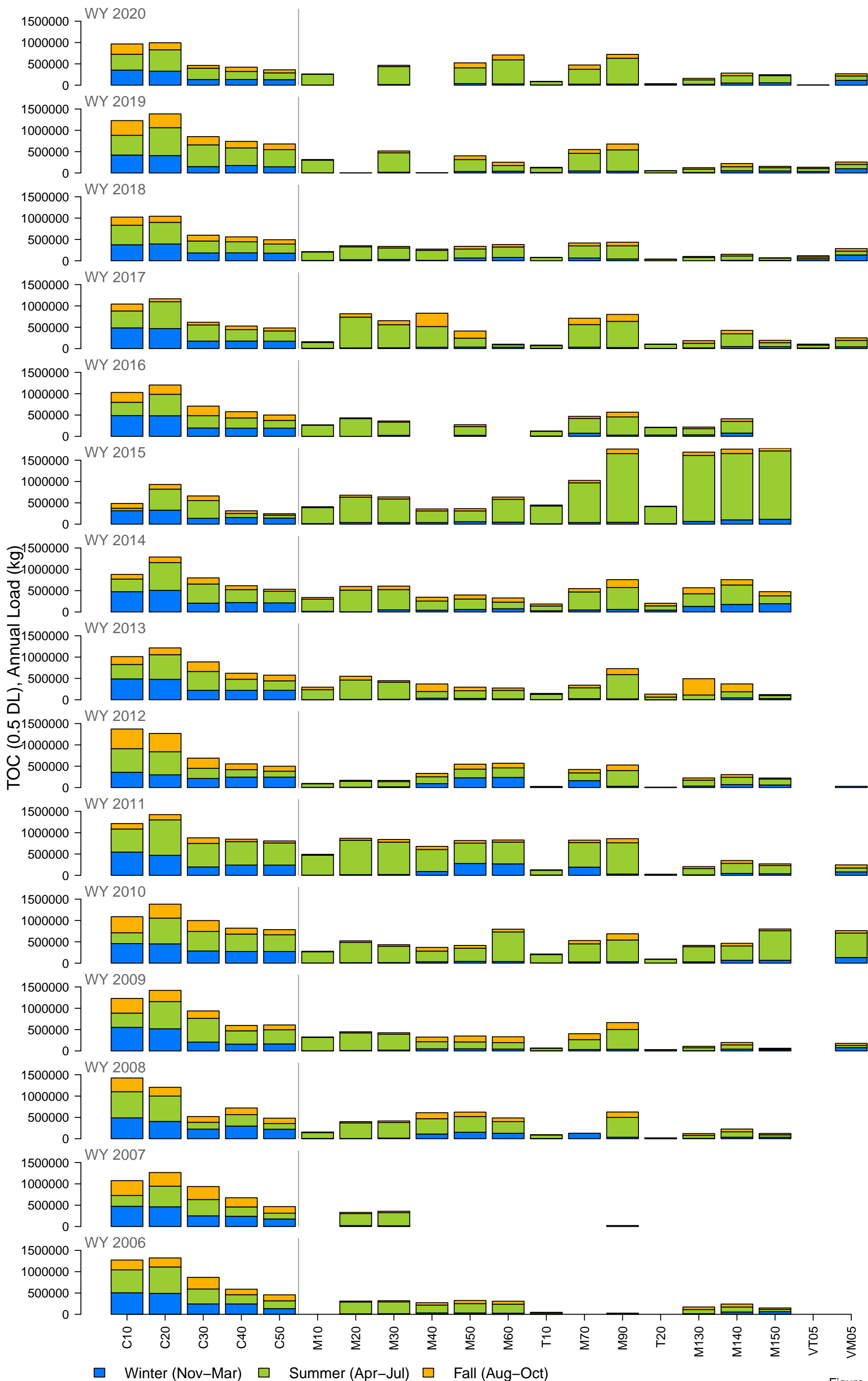


Figure D2-7
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Total Kjeldahl Nitrogen (0.5 DL)



■ Winter (Nov-Mar) ■ Summer (Apr-Jul) ■ Fall (Aug-Oct)

Figure D2-8
Big Thompson 2021 Report
Annual Loads Bar Plots
TOC (0.5 DL)

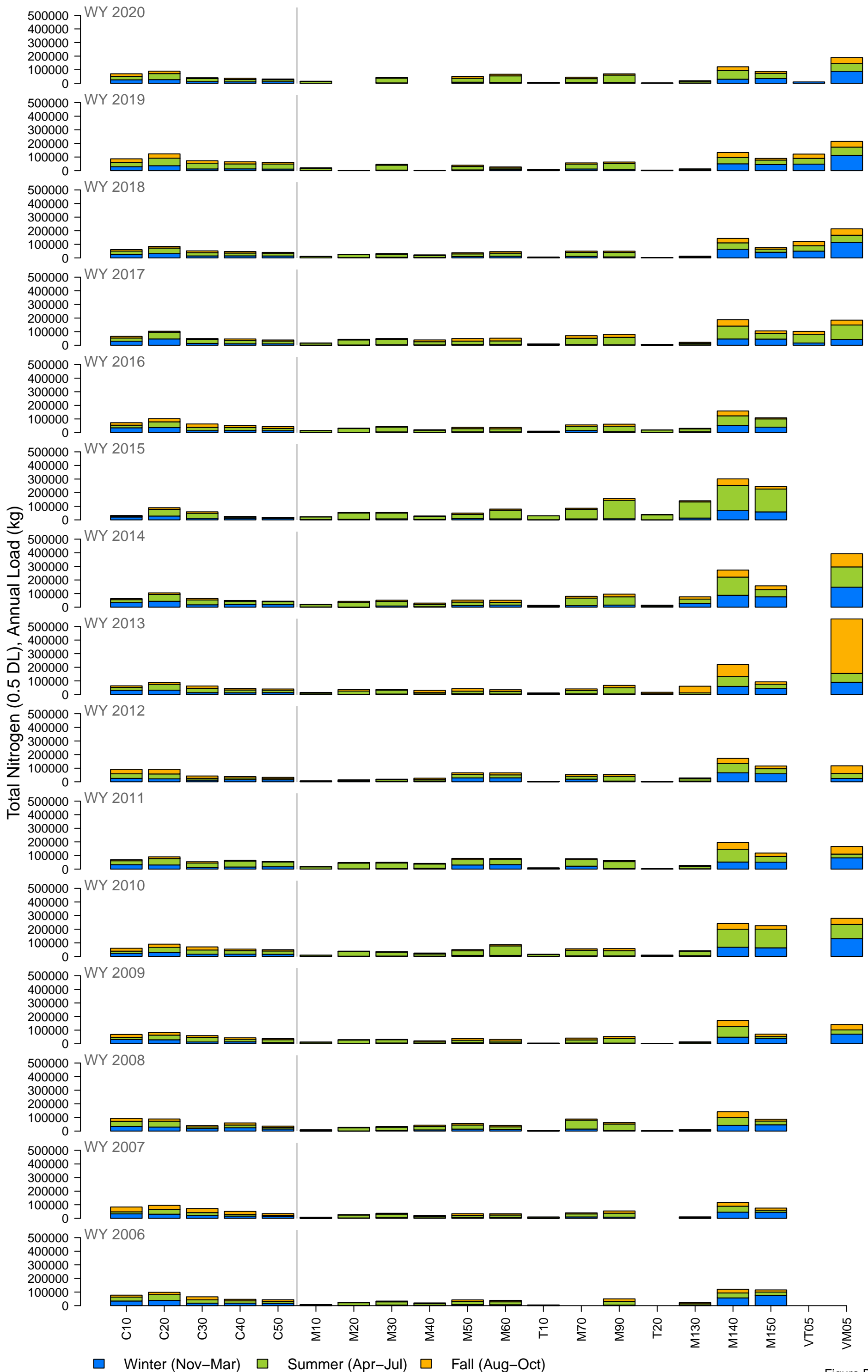


Figure D2-9
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Total Nitrogen (0.5 DL)

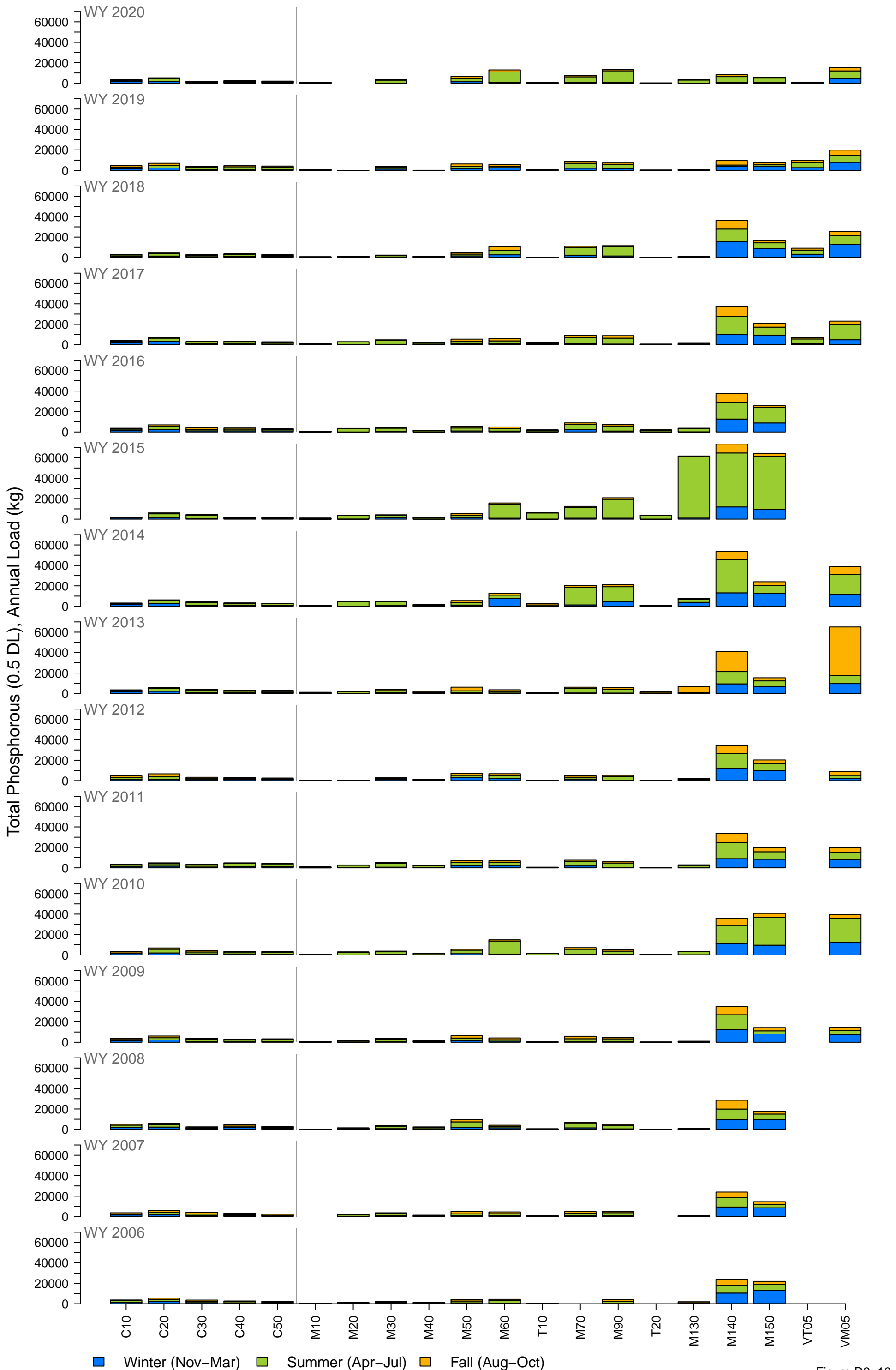


Figure D2-10
 Big Thompson 2021 Report
 Annual Loads Bar Plots
 Total Phosphorous (0.5 DL)

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)		
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)
C10																							
2006	273,287	389	0.001	1,105	0.003	1,465	0.004	18,290	0.054	218	0.001	648	0.002	1,273,296	3.777	64,069	0.190	77,330	0.229			3,696	0.011
2007	234,750	2,206	0.006	2,223	0.006	--	--	11,620	0.040	855	0.003	978	0.003	1,074,817	3.712	63,686	0.220	83,481	0.288			3,696	0.013
2008	287,349	1,076	0.004	1,094	0.004	--	--	15,717	0.044	464	0.001	621	0.002	1,424,172	4.018	80,241	0.226	94,968	0.265			5,266	0.015
2009	243,979	1,091	0.004	1,130	0.004	--	--	7,434	0.025	0	--	150	0.001	1,230,529	4.089	60,912	0.202	68,346	0.227			3,871	0.013
2010	227,049	586	0.002	640	0.002	--	--	6,863	0.025	161	0.001	261	0.001	1,088,741	3.888	54,012	0.193	60,456	0.216			3,338	0.012
2011	246,381	731	0.002	781	0.002	--	--	12,117	0.040	401	0.001	472	0.002	1,214,167	3.995	57,884	0.190	69,810	0.230			3,437	0.011
2012	289,830	1,130	0.004	1,177	0.004	--	--	7,420	0.021	83	0.000	241	0.001	1,372,494	3.839	84,304	0.236	91,583	0.256			4,715	0.013
2013	237,461	691	0.003	691	0.003	--	--	4,953	0.017	170	0.001	274	0.001	1,011,585	3.454	59,083	0.202	63,734	0.218			3,522	0.012
2014	205,144	646	0.005	649	0.005	--	--	13,741	0.054	442	0.002	473	0.002	1,029,693	3.480	49,315	0.195	62,909	0.249			3,214	0.013
2015	115,789	469	0.002	540	0.002	--	--	5,335	0.037	199	0.001	238	0.002	485,123	3.397	27,132	0.190	32,407	0.227			1,864	0.013
2016	243,246	667	0.002	710	0.002	--	--	6,540	0.022	148	0.000	261	0.001	1,029,693	3.432	65,961	0.220	72,516	0.242			3,666	0.012
2017	242,082	199	0.001	298	0.001	--	--	7,714	0.026	353	0.001	455	0.002	1,043,722	3.495	57,642	0.193	65,130	0.218			4,075	0.014
2018	237,083	655	0.002	740	0.002	--	--	6,891	0.024	148	0.001	257	0.002	1,024,094	3.502	55,207	0.189	61,132	0.209			3,134	0.011
2019	289,659	185	0.001	272	0.001	--	--	8,634	0.024	413	0.001	500	0.001	1,228,436	3.438	79,428	0.222	86,775	0.243			4,578	0.013
2020	217,241					--	--	6,208	0.023	304	0.001	384	0.001	967,136	3.609	64,180	0.240	70,126	0.262			3,662	0.014
C20																							
2006	290,502	4,581	0.013	4,921	0.014	1,868	0.005	25,922	0.072	552	0.002	923	0.003	1,321,970	3.689	76,358	0.213	98,255	0.274			5,567	0.016
2007	267,040	2,497	0.008	2,686	0.009	--	--	18,207	0.055	1,142	0.003	1,317	0.004	1,265,721	3.843	73,456	0.223	95,524	0.290			5,904	0.018
2008	251,000	2,767	0.008	2,767	0.008	--	--	16,891	0.055	594	0.002	706	0.002	1,205,075	3.892	73,237	0.237	88,772	0.287			6,077	0.020
2009	272,428	2,632	0.008	2,661	0.008	--	--	11,020	0.033	733	0.002	758	0.002	1,419,523	4.224	71,764	0.214	82,634	0.246			6,086	0.018
2010	264,495	2,014	0.006	2,034	0.006	--	--	11,557	0.035	759	0.002	818	0.003	1,382,457	4.237	78,838	0.242	89,888	0.276			6,897	0.021
2011	274,393	1,321	0.004	1,347	0.004	--	--	15,342	0.045	964	0.003	964	0.003	1,424,145	4.208	75,644	0.223	90,552	0.268			4,856	0.014
2012	276,058	4,871	0.014	4,871	0.014	--	--	9,332	0.027	492	0.001	581	0.002	1,268,303	3.725	83,343	0.245	92,183	0.271			6,674	0.020
2013	272,565	4,607	0.020	4,607	0.020	--	--	10,431	0.031	557	0.002	614	0.002	1,215,923	3.617	79,005	0.235	89,167	0.265			5,650	0.017
2014	275,722	4,276	0.013	4,276	0.013	--	--	26,861	0.079	1,048	0.003	1,063	0.003	1,287,538	3.786	78,892	0.232	105,251	0.309			6,256	0.018
2015	185,539	4,823	0.016	4,823	0.016	--	--	22,825	0.100	867	0.004	867	0.004	931,376	4.070	67,101	0.293	89,490	0.391			6,093	0.027
2016	269,647	2,125	0.007	2,125	0.007	--	--	18,633	0.056	501	0.002	618	0.002	1,203,924	3.620	84,115	0.253	102,196	0.307			6,930	0.021
2017	245,998	14,343	0.048	14,343	0.048	--	--	22,434	0.074	707	0.002	750	0.002	1,166,543	3.844	80,958	0.267	102,980	0.339			6,800	0.022
2018	241,171	22,692	0.058	22,692	0.058	--	--	18,633	0.056	501	0.002	618	0.002	1,203,924	3.620	84,115	0.253	102,196	0.307			6,930	0.021
2019	316,910	15,764	0.061	15,764	0.061	--	--	22,434	0.074	707	0.002	750	0.002	1,166,543	3.844	80,958	0.267	102,980	0.339			6,800	0.022
2020	207,882					--	--	22,692	0.058	885	0.002	966	0.002	1,385,126	3.543	100,868	0.258	123,182	0.315			6,939	0.018
						--	--	15,764	0.061	574	0.002	601	0.002	994,095	3.877	74,447	0.290	89,696	0.350			5,256	0.020
C30																							
2006	187,008	3,014	0.013	3,214	0.014	1,004	0.004	12,736	0.055	168	0.001	406	0.002	866,564	3.757	52,328	0.227	65,064	0.282			3,591	0.016
2007	194,396	3,514	0.015	3,696	0.015	594	0.002	9,742	0.041	387	0.002	541	0.002	937,620	3.910	62,645	0.261	72,387	0.302			4,292	0.018
2008	115,768	1,236	0.009	1,349	0.009	--	--	7,108	0.025	452	0.003	489	0.003	519,804	3.640	33,066	0.232	39,548	0.277			2,495	0.017
2009	183,951	865	0.004	1,265	0.006	922	0.004	7,814	0.034	464	0.002	627	0.003	937,693	4.133	53,989	0.238	59,556	0.264			3,867	0.017
2010	196,724	1,064	0.004	1,593	0.007	1,326	0.005	8,832	0.036	934	0.004	998	0.004	998,182	4.114	61,083	0.252	69,755	0.287			4,157	0.017
2011	176,652	639	0.003	665	0.003	--	--	7,249	0.033	366	0.002	402	0.002	879,991	4.039	46,936	0.215	54,103	0.248			3,495	0.016
2012	142,979	445	0.002	445	0.002	--	--	3,020	0.017	7	0.000	93	0.001	689,624	3.910	39,898	0.226	42,845	0.243			3,341	0.019
2013	187,822	845	0.004	887	0.004	--	--	9,055	0.039	280	0.001	334	0.001	887,175	3.829	53,488	0.231	62,461	0.270			4,089	0.018
2014	159,627	1,196	0.006	1,214	0.006	--	--	15,777	0.060	624	0.003	631	0.003	798,180	4.054	48,185	0.245	63,802	0.324			4,343	0.022
2015	126,288	1,745	0.011	1,745	0.011	--	--	14,606	0.094	804	0.005	812	0.005	661,566	4.247	44,662	0.287	59,001	0.379			4,382	0.028
2016	171,436	2,077	0.010	2,077	0.010	--	--	9,690	0.046	204	0.001	263	0.001	709,175	3.354	53,703	0.254	63,170	0.299			4,143	0.020
2017	129,276	817	0.005	839	0.005	--	--	11,695	0.073	325	0.002	356	0.002	617,107	3.870	38,145	0.239	49,774	0.312			3,058	0.019
2018	144,614	836	0.005	856	0.005	--	--	6,657	0.037	268	0.002	290	0.002	599,752	3.362	45,391	0.254	51,990	0.291			2,986	0.017
2019	179,642	1,344	0.006	1,351	0.006	--	--	14,767	0.067	191	0.001	254	0.001	852,874	3.849	57,709	0.260	72,405	0.327			3,907	0.018
2020	92,559	602	0.005	602	0.005	--	--	7,722	0.068	123	0.001	150	0.001	463,394	4.059	33,659	0.295	41,202	0				

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorus (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorus (0.5 DL)	
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)
C40																						
	2006	129,821	2,027	0.013	2,181	0.014	1,007	0.006	10,685	0.067	350	0.002	496	0.003	588,989	3.678	36,250	0.226	46,935	0.293	2,707	0.017
	2007	140,135	2,130	0.012	2,415	0.014	584	0.003	6,821	0.039	515	0.003	608	0.004	674,970	3.905	44,455	0.257	51,277	0.297	3,394	0.020
	2008	141,589	1,319	0.008	1,373	0.008	--	--	11,468	0.066	1,406	0.008	1,407	0.008	720,566	4.126	48,000	0.275	59,139	0.339	4,576	0.026
	2009	131,320	753	0.005	1,043	0.006	--	--	7,537	0.047	779	0.005	874	0.005	597,224	3.687	34,852	0.215	43,510	0.269	3,115	0.019
	2010	150,585	708	0.004	1,221	0.007	1,400	0.008	9,407	0.051	1,024	0.006	1,061	0.006	820,295	4.416	46,169	0.249	54,372	0.293	3,594	0.019
	2011	156,386	872	0.005	908	0.005	--	--	9,244	0.048	777	0.004	803	0.004	846,834	4.390	56,269	0.292	65,233	0.338	4,851	0.025
	2012	114,914	332	0.002	366	0.003	--	--	3,302	0.023	138	0.001	189	0.001	554,756	3.914	34,867	0.246	38,079	0.269	2,979	0.021
	2013	128,412	328	0.002	376	0.002	--	--	6,385	0.040	507	0.003	544	0.003	620,813	3.919	37,985	0.240	44,349	0.280	3,179	0.020
	2014	120,097	702	0.005	715	0.005	--	--	12,108	0.082	450	0.003	457	0.003	614,786	4.150	37,343	0.252	49,328	0.333	3,350	0.023
	2015	68,071	615	0.007	623	0.007	--	--	5,287	0.063	169	0.002	184	0.002	312,193	3.718	20,379	0.243	25,565	0.304	1,827	0.022
	2016	139,046	1,607	0.009	1,623	0.009	--	--	9,193	0.054	534	0.003	578	0.003	578,664	3.374	43,674	0.255	52,831	0.308	3,877	0.023
	2017	116,898	838	0.006	861	0.006	--	--	9,871	0.068	521	0.004	540	0.004	527,756	3.660	36,232	0.251	46,103	0.320	3,399	0.024
	2018	134,603	1,263	0.008	1,285	0.008	--	--	6,889	0.041	636	0.004	647	0.004	560,558	3.376	40,619	0.245	47,212	0.284	3,676	0.022
	2019	159,119	802	0.004	836	0.004	--	--	12,786	0.065	541	0.003	588	0.003	740,777	3.774	52,011	0.265	64,641	0.329	4,555	0.023
	2020	90,451	786	0.007	786	0.007	--	--	6,886	0.062	447	0.004	476	0.004	422,200	3.784	30,061	0.269	36,880	0.331	2,496	0.022
C50																						
	2006	119,478	1,845	0.013	1,993	0.014	817	0.006	10,095	0.068	248	0.002	414	0.003	456,585	3.098	33,524	0.227	43,619	0.296	2,474	0.017
	2007	99,675	1,495	0.012	1,721	0.014	--	--	5,130	0.042	424	0.003	460	0.004	466,978	3.798	29,945	0.244	35,990	0.285	2,417	0.020
	2008	95,624	1,012	0.009	1,159	0.010	1,127	0.010	7,607	0.064	839	0.007	841	0.007	481,969	4.086	28,813	0.244	36,369	0.308	2,972	0.025
	2009	123,679	877	0.006	1,216	0.008	618	0.004	4,162	0.027	1,054	0.007	1,187	0.008	608,543	3.989	34,707	0.228	37,069	0.243	3,298	0.022
	2010	141,298	986	0.006	1,061	0.006	--	--	7,231	0.041	1,008	0.006	1,041	0.006	785,020	4.504	42,457	0.244	49,636	0.285	3,392	0.019
	2011	148,783	699	0.004	755	0.004	--	--	7,892	0.043	669	0.004	708	0.004	805,924	4.391	49,298	0.269	57,272	0.312	4,282	0.023
	2012	102,164	309	0.002	338	0.003	--	--	2,918	0.023	98	0.001	147	0.001	499,638	3.965	29,884	0.237	32,710	0.260	2,583	0.020
	2013	118,902	244	0.002	294	0.002	--	--	5,176	0.035	344	0.002	379	0.003	576,367	3.930	35,381	0.241	40,420	0.276	2,947	0.020
	2014	106,604	510	0.004	545	0.004	--	--	9,597	0.073	321	0.002	335	0.003	532,063	4.046	34,321	0.261	43,851	0.333	2,819	0.021
	2015	53,250	317	0.005	317	0.005	--	--	3,773	0.057	117	0.002	130	0.002	244,452	3.722	15,321	0.233	19,082	0.291	1,302	0.020
	2016	119,871	1,412	0.010	1,435	0.010	--	--	6,599	0.045	491	0.003	531	0.004	500,696	3.386	37,107	0.251	43,463	0.294	3,287	0.022
	2017	104,918	803	0.006	826	0.006	--	--	7,468	0.058	368	0.003	399	0.003	483,124	3.733	31,464	0.243	38,827	0.300	2,846	0.022
	2018	117,644	1,001	0.007	1,028	0.007	--	--	5,651	0.039	397	0.003	413	0.003	493,760	3.403	35,406	0.244	40,919	0.282	2,985	0.021
	2019	145,185	584	0.003	649	0.004	--	--	11,557	0.065	513	0.003	547	0.003	680,814	3.802	49,527	0.277	60,871	0.340	4,215	0.024
	2020	77,648	736	0.008	736	0.008	--	--	5,188	0.054	353	0.004	378	0.004	359,922	3.758	26,795	0.280	31,770	0.332	2,022	0.021
M10																						
	2006	28,364	156	0.004	193	0.006	--	--	3,553	0.102	96	0.003	123	0.004	--	--	--	--	8,560	0.245	337	0.010
	2007	28,107	--	--	--	--	--	--	3,833	0.111	--	--	--	--	--	--	--	--	8,898	0.257	--	--
	2008	29,948	45	0.001	372	0.010	176	0.005	4,232	0.115	134	0.004	140	0.004	156,143	4.227	5,760	0.156	6,685	0.235	340	0.009
	2009	43,196	23	0.000	533	0.010	208	0.004	4,436	0.083	66	0.001	216	0.004	326,870	6.135	10,993	0.206	12,904	0.242	613	0.012
	2010	39,047	27	0.001	493	0.010	239	0.005	3,998	0.083	211	0.004	227	0.005	277,910	5.770	11,384	0.236	10,375	0.215	659	0.014
	2011	67,868	69	0.001	453	0.005	440	0.005	6,541	0.078	368	0.004	393	0.005	492,806	5.887	16,116	0.193	18,040	0.216	775	0.009
	2012	23,463	6	0.000	148	0.005	76	0.003	2,984	0.103	0	--	58	0.002	95,955	3.316	4,412	0.152	6,145	0.212	165	0.006
	2013	39,429	92	0.002	311	0.006	288	0.006	6,707	0.138	32	0.001	118	0.002	294,767	6.061	12,599	0.259	15,068	0.310	1,189	0.024
	2014	51,725	0	--	319	0.005	391	0.006	10,959	0.172	0	--	128	0.002	339,195	5.316	12,521	0.196	21,941	0.344	881	0.014
	2015	53,737	93	0.001	378	0.006	413	0.006	12,135	0.183	46	0.001	160	0.002	408,299	6.160	17,663	0.266	23,219	0.350	924	0.014
	2016	37,163	186	0.004	363	0.008	280	0.006	7,894	0.172	0	--	92	0.002	--	--	9,833	0.215	14,612	0.319	730	0.016
	2017	48,380	41	0.001	323	0.005	326	0.005	8,092	0.136	0	--	119	0.002	160,168	2.684	13,178	0.221	16,988	0.285	981	0.016
	2018	29,086	53	0.001	206	0.006	183	0.005	6,134	0.171	25	0.001	94	0.003	215,061	5.994	7,168	0.200	11,333	0.316	645	0.018
	2019	46,100	86	0.002	327	0.006	330	0.006	10,894	0.192	6	0.000	117	0.002	315,494	5.548	13,618	0.239	19,656	0.346	803	0.014
	2020	33,061	153	0.004	295	0.007	268	0.007	7,936	0.195	24	0.001	99	0.002	261,399	6.410	9,350	0.229	15,259	0.374	806	0.020

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)			
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)
M130	2006	31,931	1,022	0.026	1,039	0.026	591	0.015	7,059	0.179	285	0.007	312	0.008	172,170	4.371	15,634	0.397	22,693	0.576	1,961	0.050		
	2007	17,775	227	0.010	337	0.015	203	0.009	4,030	0.184	142	0.006	148	0.007	--	--	7,237	0.330	11,268	0.514	862	0.039		
	2008	21,794	202	0.008	350	0.013	279	0.010	3,304	0.123	188	0.007	189	0.007	120,813	4.494	7,683	0.286	10,987	0.409	910	0.034		
	2009	19,714	317	0.013	324	0.013	194	0.008	5,512	0.227	189	0.008	213	0.009	108,293	4.453	8,718	0.359	14,229	0.585	1,023	0.042		
	2010	56,954	1,074	0.015	1,248	0.018	1,012	0.014	12,938	0.184	659	0.009	708	0.010	415,615	5.916	29,388	0.418	42,326	0.602	3,544	0.050		
	2011	32,630	510	0.013	561	0.014	704	0.017	7,986	0.198	558	0.014	558	0.014	204,745	5.087	19,440	0.483	27,426	0.681	2,916	0.072		
	2012	37,506	852	0.018	907	0.020	888	0.019	11,540	0.249	593	0.013	613	0.013	225,101	4.866	17,014	0.368	28,554	0.617	2,123	0.046		
	2013	94,255	1,849	0.016	1,954	0.017	1,293	0.011	15,993	0.138	840	0.007	852	0.007	493,376	4.244	44,794	0.385	60,788	0.523	6,783	0.058		
	2014	80,010	1,189	0.012	1,453	0.015	2,200	0.022	36,612	0.371	1,264	0.013	1,264	0.013	567,378	5.753	39,195	0.397	75,807	0.768	7,744	0.078		
	2015	173,778	1,328	0.006	1,855	0.009	5,626	0.026	53,750	0.251	3,521	0.016	3,521	0.016	1,688,971	7.879	86,571	0.404	140,321	0.655	61,735	0.288		
	2016	41,401	699	0.014	706	0.014	671	0.013	11,198	0.219	366	0.007	382	0.007	218,381	4.276	19,933	0.390	31,130	0.610	3,680	0.072		
	2017	33,899	297	0.007	397	0.009	406	0.010	8,739	0.209	198	0.005	222	0.005	185,383	4.434	12,898	0.308	21,638	0.517	1,495	0.036		
	2018	22,838	194	0.007	261	0.009	290	0.010	5,040	0.179	266	0.009	272	0.010	--	--	7,951	0.282	12,991	0.461	1,041	0.037		
	2019	23,465	202	0.007	299	0.010	298	0.010	5,220	0.180	191	0.007	200	0.007	124,773	4.311	7,855	0.271	13,076	0.452	949	0.033		
	2020	26,265	328	0.010	400	0.012	429	0.013	4,574	0.141	193	0.006	209	0.006	159,289	4.917	14,631	0.452	19,205	0.593	3,496	0.108		
M140	2006	40,248	1,231	0.025	1,231	0.025	21,544	0.434	94,403	1.902	20,939	0.422	20,939	0.422	240,009	4.835	26,540	0.535	120,943	2.436	23,846	0.480		
	2007	23,256	997	0.035	997	0.035	22,992	0.802	98,756	3.443	22,681	0.791	22,681	0.791	--	--	18,640	0.650	117,396	4.092	24,000	0.837		
	2008	33,876	1,528	0.037	1,528	0.037	27,105	0.649	113,915	2.726	26,038	0.623	26,038	0.623	227,259	5.439	27,603	0.661	141,518	3.387	28,553	0.683		
	2009	28,202	1,284	0.037	1,284	0.037	32,535	0.935	144,041	4.141	32,969	0.948	32,969	0.948	196,979	5.663	25,879	0.744	169,920	4.885	34,811	1.001		
	2010	61,110	1,877	0.025	1,877	0.025	32,980	0.438	185,832	2.465	31,165	0.413	31,165	0.413	464,193	6.158	45,690	0.606	241,575	3.205	36,056	0.478		
	2011	52,891	1,715	0.026	1,715	0.026	30,775	0.472	156,727	2.402	28,851	0.442	28,851	0.442	346,901	5.317	38,520	0.590	195,247	2.993	33,877	0.519		
	2012	47,036	1,484	0.026	1,484	0.026	30,786	0.531	136,478	2.352	29,348	0.506	29,348	0.506	303,436	5.230	35,378	0.610	171,856	2.962	34,265	0.591		
	2013	55,098	1,967	0.029	1,967	0.029	32,873	0.484	168,809	2.484	32,248	0.474	32,248	0.474	370,949	5.458	50,748	0.747	220,066	3.238	41,054	0.604		
	2014	97,368	2,252	0.019	2,294	0.019	32,586	0.271	193,275	1.610	28,026	0.233	28,026	0.233	756,291	6.297	79,274	0.660	272,649	2.270	53,694	0.447		
	2015	185,730	3,283	0.014	3,542	0.015	36,100	0.158	190,583	0.832	31,807	0.139	31,807	0.139	1,759,048	7.678	110,547	0.483	301,130	1.314	73,764	0.322		
	2016	56,778	3,386	0.048	3,397	0.048	32,455	0.463	115,870	1.654	30,212	0.431	30,212	0.431	412,200	5.886	42,736	0.610	158,606	2.265	37,554	0.536		
	2017	44,323	1,588	0.029	1,588	0.029	33,240	0.608	149,358	2.732	30,255	0.553	30,255	0.553	426,590	7.803	39,143	0.716	188,520	3.448	37,323	0.683		
	2018	35,046	1,633	0.038	1,633	0.038	33,980	0.786	115,537	2.673	31,110	0.720	31,110	0.720	--	--	27,684	0.640	143,220	3.313	36,402	0.842		
	2019	33,151	10,301	0.252	10,301	0.252	7,646	0.187	97,952	2.395	6,526	0.160	6,526	0.160	221,079	5.406	35,072	0.858	133,024	3.253	9,528	0.233		
	2020	45,080	3,784	0.068	3,784	0.068	4,557	0.082	87,644	1.576	3,722	0.067	3,722	0.067	283,135	5.092	34,081	0.613	121,725	2.189	8,332	0.150		
M150	2006	22,510	805	0.029	850	0.031	20,076	0.723	97,000	3.493	19,961	0.719	19,961	0.719	148,266	5.340	18,852	0.679	115,852	4.172	21,942	0.790		
	2007	10,134	761	0.061	761	0.061	14,232	1.139	66,049	5.284	13,765	1.101	13,765	1.101	--	--	9,498	0.760	75,547	6.044	14,740	1.166		
	2008	17,003	2,864	0.137	2,864	0.137	16,882	0.805	69,851	3.331	16,188	0.772	16,188	0.772	123,377	5.883	16,948	0.808	86,800	4.139	17,740	0.846		
	2009	8,475	1,646	0.157	1,646	0.157	14,381	1.376	61,328	5.866	14,401	1.378	14,401	1.378	62,761	6.003	9,292	0.889	70,620	6.755	14,296	1.367		
	2010	93,212	3,277	0.028	3,317	0.029	21,222	0.185	125,999	1.096	20,581	0.179	20,581	0.179	800,345	6.961	100,318	0.873	226,318	1.968	40,730	0.354		
	2011	43,074	1,320	0.025	1,320	0.025	17,201	0.324	90,985	1.712	17,516	0.330	17,516	0.330	269,037	5.064	26,984	0.508	117,969	2.220	19,811	0.373		
	2012	31,508	1,092	0.028	1,092	0.028	18,162	0.467	92,555	2.381	17,382	0.447	17,382	0.447	223,196	5.743	23,619	0.608	116,174	2.989	20,241	0.521		
	2013	16,503	2,361	0.116	2,361	0.116	14,789	0.727	76,922	3.779	14,604	0.717	14,604	0.717	120,860	5.937	15,860	0.779	92,782	4.558	15,358	0.755		
	2014	63,789	1,995	0.025	2,071	0.026	16,525	0.210	111,745	1.420	14,513	0.184	14,513	0.184	475,679	6.046	45,132	0.574	156,877	1.994	23,983	0.305		
	2015	185,303	2,994	0.013	3,064	0.013	22,611	0.099	129,712	0.567	19,521	0.085	19,521	0.085	1,782,418	7.798	115,820	0.507	245,532	1.074	64,371	0.282		
	2016	50,442	2,669	0.043	2,669	0.043	16,288	0.262	68,300	1.098	15,093	0.243	15,093	0.243	--	--	40,258	0.647	108,558	1.745	25,604	0.412		
	2017	25,517	1,110	0.035	1,110	0.035	18,816	0.598	85,369	2.712	17,271	0.549	17,271	0.549	192,599	6.119	20,388	0.648	105,757	3.360	20,775	0.660		
	2018	20,700	1,682	0.066	1,711	0.067	15,823	0.620	61,308	2.401	13,955	0.547	13,955	0.547	--	--	76,244	0.585	76,244	2.986	16,706	0.654		
	2019	23,575	11,869	0.408	11,905	0.409	6,407	0.220	61,008	2.098	5,603	0.193	5,603	0.193	154,909	5.327	28,817	0.991	89,825	3.089	7,620	0.262		
	2020	35,485	7,739	0.177	7,739	0.1																		

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)		
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)
M20																							
2006	2006	67,332	219	0.003	463	0.006	273	0.003	9,746	0.117	192	0.002	293	0.004	310,291	3.736	14,756	0.178	24,502	0.295	1,056	0.013	
2007	2007	77,459	133	0.001	967	0.010	388	0.004	12,387	0.130	256	0.003	343	0.004	330,974	3.464	15,750	0.165	28,137	0.294	1,852	0.019	
2008	2008	77,261	33	0.000	953	0.010	431	0.005	10,414	0.109	330	0.003	387	0.004	400,168	4.199	16,619	0.174	27,033	0.284	1,487	0.016	
2009	2009	90,899	179	0.002	1,120	0.010	476	0.004	8,880	0.079	339	0.003	498	0.004	449,268	4.007	20,807	0.186	29,687	0.265	1,235	0.011	
2010	2010	97,965	0	---	1,209	0.010	628	0.005	10,761	0.089	644	0.005	644	0.005	521,874	4.319	27,855	0.231	38,616	0.320	2,949	0.024	
2011	2011	148,608	89	0.000	961	0.005	731	0.004	15,925	0.087	770	0.004	826	0.005	868,253	4.737	32,233	0.176	48,158	0.263	2,801	0.015	
2012	2012	49,042	30	0.001	318	0.005	172	0.003	5,407	0.089	0	---	121	0.002	169,578	2.803	8,864	0.147	14,271	0.236	533	0.009	
2013	2013	92,909	295	0.003	721	0.006	565	0.005	13,968	0.122	0	---	229	0.002	550,662	4.805	22,114	0.193	36,082	0.315	2,128	0.019	
2014	2014	111,383	124	0.001	749	0.005	767	0.006	17,584	0.128	115	0.001	353	0.003	598,008	4.353	25,630	0.187	43,213	0.315	4,634	0.034	
2015	2015	124,409	246	0.002	892	0.006	1,156	0.008	22,446	0.146	266	0.002	499	0.003	679,012	4.425	32,720	0.213	55,166	0.359	3,838	0.025	
2016	2016	79,367	95	0.001	561	0.006	552	0.006	13,152	0.134	19	0.000	205	0.002	--	--	19,344	0.198	32,496	0.332	3,537	0.036	
2017	2017	107,584	0	---	664	0.005	736	0.006	17,643	0.133	53	0.000	292	0.002	815,907	6.148	26,379	0.199	44,022	0.332	2,945	0.022	
2018	2018	68,049	128	0.002	484	0.006	354	0.004	11,678	0.139	92	0.001	222	0.003	353,086	4.207	14,791	0.176	26,469	0.315	1,263	0.015	
2019	2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2020	2020	78,908	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M30																							
2006	2006	70,745	3,776	0.043	3,776	0.043	958	0.011	12,376	0.142	652	0.007	685	0.008	319,094	3.657	21,500	0.246	33,876	0.388	2,016	0.023	
2007	2007	80,244	4,054	0.041	4,752	0.048	1,984	0.020	13,973	0.141	1,686	0.017	1,686	0.017	357,923	3.616	23,385	0.236	37,358	0.377	3,682	0.037	
2008	2008	82,586	939	0.009	1,679	0.016	2,219	0.022	13,561	0.133	1,757	0.017	1,809	0.018	416,259	4.086	19,591	0.192	33,152	0.325	3,845	0.038	
2009	2009	85,506	2,781	0.026	3,592	0.034	2,570	0.024	10,131	0.096	2,278	0.022	2,278	0.022	425,407	4.033	23,343	0.221	33,474	0.317	3,836	0.036	
2010	2010	89,418	542	0.005	1,423	0.013	1,972	0.018	11,590	0.105	1,784	0.016	1,784	0.016	432,430	3.921	24,244	0.220	35,834	0.325	3,782	0.034	
2011	2011	138,548	2,740	0.016	2,899	0.017	2,712	0.016	16,209	0.095	2,675	0.016	2,689	0.016	840,916	4.921	34,302	0.201	50,511	0.296	5,090	0.030	
2012	2012	48,580	698	0.012	936	0.016	2,207	0.037	8,400	0.140	1,898	0.032	1,934	0.032	166,708	2.782	10,639	0.178	19,040	0.318	2,808	0.047	
2013	2013	77,005	1,233	0.013	1,523	0.016	2,497	0.026	13,377	0.141	1,792	0.019	1,901	0.020	447,264	4.709	23,946	0.252	37,323	0.393	3,822	0.040	
2014	2014	109,959	2,884	0.021	3,286	0.024	1,625	0.012	21,350	0.157	877	0.006	1,004	0.007	606,349	4.471	30,055	0.222	51,404	0.379	4,898	0.036	
2015	2015	115,455	2,618	0.018	2,902	0.020	2,206	0.015	22,998	0.161	1,372	0.010	1,511	0.011	637,316	4.475	33,543	0.236	56,540	0.397	4,223	0.030	
2016	2016	92,262	3,719	0.033	4,082	0.036	1,662	0.015	18,618	0.164	1,020	0.009	1,104	0.010	306,372	3.167	26,345	0.231	44,962	0.395	4,322	0.038	
2017	2017	111,283	2,725	0.020	2,885	0.021	1,165	0.008	19,768	0.144	341	0.002	591	0.004	653,653	4.762	30,309	0.221	50,077	0.365	4,814	0.035	
2018	2018	71,161	1,980	0.023	2,248	0.026	1,303	0.015	14,894	0.170	826	0.009	921	0.010	336,298	3.831	17,228	0.196	32,123	0.366	2,349	0.027	
2019	2019	98,202	1,317	0.011	1,537	0.013	2,258	0.019	21,229	0.175	1,385	0.011	1,561	0.013	516,069	4.260	24,671	0.204	45,900	0.379	3,981	0.033	
2020	2020	88,094	2,225	0.020	2,510	0.023	953	0.009	18,538	0.171	222	0.002	391	0.004	465,955	4.288	24,956	0.230	43,494	0.400	3,309	0.030	
M40																							
2006	2006	56,980	1,962	0.028	1,970	0.028	405	0.006	4,102	0.058	142	0.002	236	0.003	272,545	3.878	16,345	0.233	20,447	0.291	1,240	0.018	
2007	2007	52,128	826	0.013	1,000	0.016	316	0.005	4,192	0.065	246	0.004	269	0.004	--	--	18,370	0.286	22,562	0.351	1,383	0.022	
2008	2008	124,996	1,447	0.009	2,193	0.014	702	0.005	8,277	0.054	472	0.003	610	0.004	609,475	3.953	35,500	0.230	43,777	0.284	2,444	0.016	
2009	2009	64,641	907	0.011	1,372	0.017	391	0.005	2,870	0.036	268	0.003	372	0.005	324,707	4.072	18,443	0.231	21,313	0.267	1,383	0.017	
2010	2010	63,137	840	0.011	1,151	0.015	579	0.007	4,166	0.053	487	0.006	487	0.006	368,852	4.736	20,756	0.267	24,921	0.320	1,634	0.021	
2011	2011	116,594	1,761	0.012	1,991	0.014	710	0.005	9,125	0.063	737	0.005	771	0.005	678,584	4.718	32,654	0.227	41,779	0.291	2,362	0.016	
2012	2012	67,572	484	0.006	676	0.008	362	0.004	2,859	0.034	104	0.001	229	0.003	330,406	3.964	23,736	0.285	26,595	0.319	1,286	0.015	
2013	2013	72,487	2,895	0.032	3,004	0.034	661	0.007	4,908	0.055	85	0.001	240	0.003	370,242	4.141	25,882	0.289	30,790	0.344	2,044	0.023	
2014	2014	66,101	2,004	0.025	2,053	0.025	846	0.010	9,611	0.118	215	0.003	339	0.004	345,301	4.235	20,439	0.251	30,050	0.369	1,758	0.021	
2015	2015	59,244	1,280	0.018	1,332	0.018	864	0.012	8,731	0.119	171	0.002	257	0.004	356,377	4.877	20,014	0.274	28,745	0.393	1,568	0.021	
2016	2016	53,805	796	0.012	980	0.015	536	0.008	5,882	0.089	216	0.003	293	0.004	--	--	14,690	0.221	20,572	0.310	1,539	0.023	
2017	2017	107,427	3,861	0.029	3,954	0.030	651	0.005	10,337	0.078	50	0.000	308	0.002	829,388	6.259	28,787	0.217	39,123	0.295	2,353	0.018	
2018	2018	68,901	818	0.010	1,096	0.013	447	0.005	5,051	0.059	180	0.002	287	0.003	--	--	17,696	0.208	22,747	0.268	1,274	0.015	
2019	2019	80,156	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2020	2020	83,974	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)				
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	
M50	2006	66,601	4,693	0.057	4,693	0.057	2,826	0.034	17,222	0.210	2,057	0.025	2,057	0.025	324,481	3.950	25,279	0.308	42,501	0.517	4,210	0.051			
	2007	51,899	1,117	0.017	1,312	0.020	3,698	0.058	15,496	0.242	3,225	0.050	3,225	0.050	--	--	18,980	0.296	34,475	0.539	4,982	0.078			
	2008	123,908	2,094	0.014	2,642	0.017	3,552	0.023	18,044	0.118	2,797	0.018	2,797	0.018	623,535	4.080	38,019	0.249	56,063	0.367	9,603	0.063			
	2009	70,080	5,142	0.059	5,424	0.063	4,816	0.056	18,777	0.148	4,216	0.049	4,216	0.049	349,786	4.046	27,111	0.314	39,889	0.461	6,262	0.072			
	2010	66,277	9,467	0.116	9,503	0.116	3,946	0.048	15,394	0.188	3,493	0.043	3,493	0.043	414,909	5.075	34,544	0.423	49,938	0.611	5,809	0.071			
	2011	148,100	12,430	0.068	12,430	0.068	4,270	0.023	23,387	0.128	3,876	0.021	3,876	0.021	816,098	4.467	55,339	0.303	78,726	0.431	7,029	0.038			
	2012	106,195	10,996	0.084	11,039	0.084	4,820	0.037	20,525	0.157	4,226	0.032	4,254	0.032	547,532	4.180	45,642	0.348	66,168	0.505	7,225	0.055			
	2013	49,938	6,057	0.098	6,131	0.100	4,429	0.072	15,916	0.258	3,822	0.062	3,822	0.062	294,702	4.784	26,712	0.434	42,628	0.692	6,160	0.100			
	2014	66,998	2,399	0.029	2,564	0.031	4,545	0.055	28,467	0.344	3,551	0.043	3,551	0.043	397,339	4.808	23,629	0.286	52,096	0.630	5,574	0.067			
	2015	61,281	5,914	0.078	5,945	0.079	4,342	0.057	22,402	0.296	3,808	0.050	3,808	0.050	363,227	4.805	27,783	0.368	50,185	0.664	5,648	0.075			
	2016	49,886	5,937	0.096	6,020	0.098	4,521	0.073	16,836	0.274	4,123	0.067	4,123	0.067	273,325	4.442	21,289	0.346	38,125	0.620	5,743	0.093			
	2017	96,377	3,849	0.032	3,953	0.033	3,714	0.031	19,425	0.163	2,965	0.025	2,989	0.025	411,290	3.460	30,220	0.254	49,645	0.418	5,476	0.046			
	2018	66,430	1,784	0.022	1,815	0.022	3,618	0.044	18,029	0.220	3,086	0.038	3,086	0.038	338,024	4.125	20,204	0.247	38,233	0.467	4,759	0.058			
2019	77,098	1,145	0.012	1,322	0.014	5,180	0.054	17,656	0.186	4,679	0.049	4,679	0.049	402,228	4.230	22,185	0.233	39,841	0.419	6,266	0.066				
2020	95,689	2,962	0.025	3,260	0.028	4,785	0.041	19,411	0.164	4,135	0.035	4,135	0.035	522,682	4.428	30,885	0.262	50,296	0.426	6,708	0.057				
M60	2006	63,475	1,431	0.018	1,465	0.019	2,427	0.031	16,173	0.207	1,730	0.022	1,730	0.022	306,807	3.919	23,008	0.294	39,181	0.500	4,335	0.055			
	2007	48,249	156	0.003	619	0.010	2,895	0.049	15,808	0.266	2,420	0.041	2,420	0.041	--	--	18,226	0.306	34,034	0.572	4,536	0.076			
	2008	99,760	465	0.004	1,452	0.012	2,274	0.018	12,455	0.101	1,720	0.014	1,720	0.014	487,195	3.959	28,446	0.231	40,901	0.332	4,112	0.033			
	2009	62,800	1,017	0.013	1,524	0.020	2,863	0.037	11,938	0.154	2,410	0.031	2,410	0.031	332,378	4.291	20,837	0.269	32,774	0.423	4,190	0.054			
	2010	97,075	2,535	0.021	2,860	0.024	3,932	0.033	26,385	0.220	3,079	0.026	3,079	0.026	796,183	6.649	61,135	0.511	87,520	0.731	14,861	0.124			
	2011	149,997	3,001	0.016	3,300	0.018	3,663	0.020	31,972	0.173	3,341	0.018	3,341	0.018	827,856	4.474	46,421	0.251	78,393	0.424	6,837	0.037			
	2012	111,048	2,818	0.021	2,873	0.021	4,010	0.029	28,137	0.205	3,475	0.025	3,475	0.025	570,116	4.162	37,618	0.275	65,755	0.480	6,788	0.050			
	2013	43,742	1,112	0.021	1,217	0.023	2,564	0.048	18,497	0.343	2,116	0.039	2,116	0.039	274,633	5.090	16,388	0.304	34,885	0.647	3,607	0.067			
	2014	60,317	700	0.009	933	0.013	2,883	0.039	29,437	0.396	2,557	0.034	2,557	0.034	328,458	4.415	21,610	0.290	51,047	0.686	12,716	0.171			
	2015	91,722	2,075	0.018	2,243	0.020	5,154	0.046	35,378	0.313	4,319	0.038	4,319	0.038	634,946	5.612	43,902	0.388	79,281	0.701	15,779	0.139			
	2016	50,296	514	0.008	683	0.011	3,510	0.057	19,820	0.319	3,073	0.050	3,073	0.050	--	--	17,754	0.286	37,574	0.606	4,890	0.079			
	2017	103,562	1,307	0.010	1,589	0.012	3,711	0.029	22,692	0.178	3,012	0.024	3,012	0.024	--	--	29,170	0.228	51,863	0.406	6,203	0.049			
	2018	78,717	374	0.004	717	0.007	2,865	0.030	18,985	0.196	2,317	0.024	2,317	0.024	380,421	3.918	27,616	0.284	46,602	0.480	10,624	0.109			
2019	50,551	328	0.005	615	0.010	3,623	0.058	12,841	0.206	3,216	0.052	3,216	0.052	252,012	4.042	14,299	0.229	27,140	0.435	5,902	0.095				
2020	115,216	1,028	0.007	1,591	0.011	4,526	0.032	24,295	0.171	3,144	0.022	3,144	0.022	708,789	4.987	42,372	0.298	66,667	0.469	12,977	0.091				
M70	2006	60,352	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2007	72,500	365	0.004	829	0.009	3,363	0.038	14,514	0.162	2,018	0.023	2,026	0.023	--	--	26,691	0.298	40,669	0.455	4,809	0.054			
	2008	130,763	793	0.005	1,794	0.011	2,947	0.018	17,716	0.110	2,281	0.014	2,281	0.014	--	--	70,025	0.434	88,456	0.548	6,682	0.041			
	2009	74,624	2,052	0.022	2,446	0.027	3,174	0.034	14,181	0.154	3,748	0.041	3,748	0.041	402,790	4.376	26,760	0.291	41,435	0.450	5,852	0.064			
	2010	83,835	1,405	0.014	1,669	0.016	3,572	0.016	20,766	0.201	3,104	0.030	3,104	0.030	529,980	5.125	35,541	0.344	56,241	0.544	7,159	0.069			
	2011	147,947	2,683	0.015	3,079	0.017	3,216	0.018	24,573	0.135	2,793	0.015	2,793	0.015	824,412	4.518	52,766	0.289	76,885	0.421	7,499	0.041			
	2012	86,696	1,113	0.010	1,247	0.012	2,666	0.025	21,122	0.198	2,524	0.024	2,524	0.024	423,449	3.960	30,865	0.289	52,643	0.492	4,685	0.044			
	2013	54,705	584	0.009	736	0.011	2,418	0.036	18,446	0.273	2,200	0.033	2,200	0.033	341,280	5.058	22,875	0.339	41,037	0.608	6,126	0.091			
	2014	89,019	713	0.006	984	0.009	3,434	0.031	30,047	0.274	2,789	0.025	2,789	0.025	547,659	4.988	50,114	0.456	80,297	0.731	20,351	0.185			
	2015	123,390	2,937	0.019	3,075	0.020	5,028	0.033	33,261	0.219	4,226	0.028	4,226	0.028	1,025,082	6.735	55,289	0.363	85,542	0.562	12,506	0.082			
	2016	88,929	1,746	0.016	1,794	0.016	5,139	0.047	27,029	0.246	4,711	0.043	4,711	0.043	468,637	4.272	29,782	0.272	56,251	0.513	8,839	0.081			
	2017	131,769	834	0.005	1,154	0.007	4,028	0.025	28,050	0.173	3,115	0.019	3,115	0.019	711,263	4.376	44,145	0.272	70,323	0.433	9,225	0.057			
	2018	83,763	475	0.005	776	0.008	2,717	0.026	19,823	0.192	2,139	0.021	2,139	0.021	417,259	4.039	30,396	0.294	50,215	0.486	11,063	0.107			
2019	101,068	1,180	0.009	1,508	0.012	4,510	0.036	23,884	0.192	4,131	0.033	4,131	0.033	550,287	4.414	33,109	0.266	56,967	0.457	8,703	0.070				
2020	92,686	783	0.007	1,109	0.010	2,940	0.026	15,709	0.137	2,260	0.020	2,260	0.020	473,672	4.143	29,828	0.261	45,326	0.396	7,744	0.068				

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)																																																																																																																																																																																																																																																																																																																				
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)																																																																																																																																																																																																																																																																																																																	
M90																																																																																																																																																																																																																																																																																																																																									
2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	114,373	108,642	111,737	119,524	113,024	145,929	99,422	119,524	132,566	232,257	119,386	154,416	92,590	120,963	130,727	--	1,993	1,662	1,079	1,348	1,347	1,784	1,311	1,686	4,810	2,050	1,247	1,050	826	1,187	--	0.015	0.012	0.007	0.010	0.007	0.015	0.009	0.010	0.017	0.014	0.007	0.009	0.006	0.007	--	2,470	1,889	1,516	1,452	1,487	1,850	1,585	2,015	5,005	2,139	1,495	1,227	1,146	1,455	--	0.018	0.014	0.010	0.010	0.008	0.015	0.011	0.012	0.017	0.015	0.008	0.011	0.008	0.009	--	19,808	2,507	2,976	3,190	2,367	2,715	2,940	3,415	6,793	3,731	3,431	1,704	3,314	3,666	--	0.148	0.018	0.020	0.023	0.013	0.022	0.020	0.021	0.024	0.025	0.018	0.015	0.022	0.023	--	1,922	1,670	2,114	2,022	1,904	2,031	2,166	2,622	5,050	2,587	2,563	1,231	2,734	2,548	--	0.014	0.012	0.014	0.015	0.011	0.017	0.015	0.016	0.018	0.018	0.013	0.011	0.018	0.016	--	1,922	1,670	2,114	2,022	1,904	2,031	2,166	2,622	5,050	2,587	2,563	1,231	2,734	2,548	--	0.014	0.012	0.014	0.015	0.011	0.017	0.015	0.016	0.018	0.018	0.013	0.011	0.019	0.016	--	626,525	664,504	687,315	859,370	859,370	528,598	729,582	757,210	1,761,403	566,694	799,981	434,806	679,934	721,921	--	4.546	4.507	4.930	4.774	4.774	4.310	4.949	4.631	6.148	3.848	4.200	3.807	4.557	4.477	--	36,086	51,568	43,190	40,048	49,679	38,310	44,024	63,237	104,336	40,430	54,387	34,209	38,825	48,449	--	0.269	0.374	0.293	0.287	0.276	0.312	0.299	0.387	0.364	0.275	0.286	0.300	0.260	0.300	--	54,435	63,155	53,219	57,342	64,744	54,289	66,804	95,905	156,644	61,618	80,358	49,802	63,225	69,472	--	0.406	0.458	0.361	0.411	0.360	0.443	0.453	0.587	0.547	0.418	0.422	0.436	0.424	0.431	--	5,269	5,008	4,895	4,995	5,910	5,209	5,765	21,398	20,866	7,378	8,885	11,606	7,231	13,288	--	0.039	0.036	0.033	0.036	0.033	0.042	0.039	0.131	0.073	0.050	0.047	0.102	0.048	0.082																														
T10																																																																																																																																																																																																																																																																																																																																									
2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	13,564	24,782	17,424	15,509	29,258	25,971	8,348	18,508	30,733	52,329	22,831	19,300	15,962	24,997	15,100	69	45	4	38	0	37	32	71	0	28	0	45	0	14	52	0.004	0.001	0.000	0.002	--	0.001	0.003	0.003	--	0.000	--	0.002	--	0.000	0.003	98	306	215	211	361	179	67	150	190	327	141	142	99	161	130	0.006	0.010	0.010	0.011	0.010	0.006	0.007	0.007	0.005	0.005	0.005	0.006	0.005	0.005	0.007	96	171	130	98	402	283	76	237	331	967	327	178	129	194	156	0.006	0.006	0.006	0.005	0.011	0.009	0.007	0.010	0.009	0.015	0.012	0.007	0.007	0.006	0.008	1,536	2,510	1,458	874	2,114	2,122	716	4,450	3,511	6,630	3,069	2,656	1,828	2,908	2,139	0.092	0.082	0.068	0.046	0.059	0.066	0.070	0.195	0.093	0.103	0.109	0.112	0.093	0.094	0.115	41	131	110	109	295	241	54	116	198	517	154	81	59	49	29	0.002	0.004	0.005	0.006	0.008	0.008	0.006	0.005	0.005	0.008	0.006	0.003	0.003	0.003	0.002	65	137	112	109	295	241	57	126	209	517	154	81	59	49	29	0.004	0.004	0.005	0.006	0.008	0.008	0.006	0.005	0.005	0.008	0.006	0.003	0.003	0.003	0.002	46,448	--	94,165	68,355	213,892	129,043	25,934	147,891	186,194	447,585	125,157	80,686	--	133,135	89,293	2.776	--	4.381	3.573	5.927	4.028	2.519	6.478	4.912	6.934	4.444	3.389	--	4.318	4.794	3,124	7,847	3,969	3,326	14,138	6,732	1,817	7,246	9,831	23,998	7,174	6,866	3,638	5,245	3,899	0.187	0.257	0.185	0.174	0.392	0.210	0.176	0.317	0.259	0.372	0.255	0.288	0.185	0.170	0.209	4,660	10,357	5,428	4,200	16,252	8,853	2,593	11,695	13,343	30,628	10,243	9,522	5,466	8,152	6,039	0.279	0.339	0.253	0.220	0.450	0.276	0.246	0.512	0.352	0.475	0.364	0.400	0.278	0.264	0.324	280	757	514	254	1,621	613	154	707	2,569	6,136	1,941	2,054	370	510	486	0.017	0.025	0.024	0.013	0.045	0.019	0.015	0.031	0.068	0.095	0.069	0.086	0.019	0.017	0.026
T20																																																																																																																																																																																																																																																																																																																																									
2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	950	5,603	2,701	4,316	13,791	4,243	1,341	18,376	23,579	34,244	22,449	12,064	6,177	7,694	5,970	--	--	21	23	36	70	32	506	92	137	90	112	37	48	28	--	--	0.006	0.004	0.002	0.013	0.019	0.022	0.003	0.003	0.003	0.008	0.005	0.005	0.004	--	--	42	59	186	70	33	534	191	280	189	131	68	74	56	--	--	0.013	0.011	0.011	0.013	0.020	0.024	0.007	0.007	0.007	0.009	0.009	0.008	0.008	--	--	46	47	404	125	28	765	494	1,468	683	254	142	156	107	--	--	0.014	0.009	0.024	0.024	0.017	0.034	0.017	0.035	0.025	0.019	0.019	0.016	0.015	--	--	318	397	1,722	587	448	7,165	4,627	12,202	6,733	850	345	413	370	--	--	0.096	0.075	0.101	0.112	0.271	0.316	0.159	0.289	0.243	0.057	0.045	0.044	0.050	--	--	40	54	233	124	26	655	399	873	400	167	101	103	40	--	--	0.012	0.010	0.014	0.024	0.016	0.029	0.014	0.021	0.014	0.011	0.013	0.011	0.005	--	--	20,159	29,953	92,523	25,439	5,712	131,291	203,556	420,016	210,340	101,660	--	54,822	29,602	6.051	5.627	5.439	4.861	3.454	5.792	6.999	9.944	7.596	6.832	--	5.777	4.021	--	--	991	1,533	7,212	1,728	441	9,153	9,834	26,130	12,496	4,714	2,316	2,668	1,888	--	--	0.297	0.288	0.424	0.330	0.267	0.404	0.338	0.619	0.451	0.317	0.304	0.281	0.256	--	--	1,309	1,930	8,934	2,315	889	16,318	14,461	38,332	19,229	5,564	2,661	3,081	2,258	--	--	0.393	0.363	0.525	0.442	0.538	0.720	0.497	0.907	0.694	0.374	0.349	0.325	0.307	107	131	740	229	49	1,530	985	3,775	1,915	3,775	1,915	523	306	300	195	0.032	0.025	0.043	0.044	0.030	0.068	0.034	0.089	0.069	0.089	0.069	0.035	0.040	0.032	0.026																																

Table D1-3. Annual Loading Table

Station ID	Water Year	Discharge (AF)	Ammonia (0 DL)		Ammonia (0.5 DL)		Dissolved Phosphorous (0.5 DL)		Nitrate+Nitrite (0.5 DL)		Orthophosphate (0 DL)		Orthophosphate (0.5 DL)		TOC (0.5 DL)		Total Kjeldahl Nitrogen (0.5 DL)		Total Nitrogen (0.5 DL)		Total Phosphorous (0.5 DL)			
			Load (kg) ¹	Concentration (mg/L) ²	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)	Load (kg)	Concentration (mg/L)
VMOS																								
2006	31,337	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2007	31,901	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2008	28,277	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2009	30,450	10,024	0.267	10,543	0.281	--	--	64,051	1.705	10,610	0.282	10,610	0.282	177,221	4.718	--	--	141,391	3.764	14,696	0.391	39,649	0.376	
2010	85,418	5,200	0.049	6,231	0.059	--	--	216,335	2.053	16,258	0.154	16,258	0.154	761,974	7.232	--	--	279,633	2.654	39,649	0.376	19,706	0.362	
2011	44,164	3,313	0.061	4,076	0.075	--	--	--	--	14,151	0.260	14,151	0.260	245,464	4.506	--	--	166,462	3.056	19,706	0.362	--	--	
2012	41,768	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2013	106,948	10,854	0.082	10,854	0.082	--	--	416,985	3.161	--	--	--	--	--	--	--	138,431	1.049	555,415	4.210	65,050	0.493	38,637	0.277
2014	112,946	26,721	0.192	26,721	0.192	--	--	312,500	2.243	--	--	--	--	--	--	--	--	--	392,210	2.815	38,637	0.277	--	--
2015	181,968	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2016	63,935	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2017	53,149	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018	38,946	9,098	0.189	9,114	0.190	21,267	0.443	171,019	3.560	18,780	0.391	18,780	0.391	285,435	5.942	42,547	0.886	213,566	4.446	25,472	0.530	19,825	0.432	
2019	37,210	19,899	0.434	19,899	0.434	12,880	0.281	155,380	3.385	11,687	0.255	11,687	0.255	256,375	5.586	59,586	1.298	214,966	4.684	19,825	0.432	15,422	0.324	
2020	38,616	14,063	0.295	14,063	0.295	7,703	0.162	135,883	2.853	6,996	0.147	6,996	0.147	267,098	5.608	53,106	1.115	188,989	3.968	15,422	0.324	--	--	
VTOS																								
2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2017	15,494	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018	15,598	14,547	0.756	14,547	0.756	4764	0.248	88162	4.582	4236	0.220	4236	0.220	118344	6.151	33404	1.736	121567	6.319	9179	0.477	9695	0.489	
2019	16,071	19,493	0.983	19,493	0.983	3601	0.182	80395	4.056	3327	0.168	3327	0.168	134881	6.804	41259	2.081	121654	6.137	9695	0.489	--	--	
2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M10	Cadmium	--	--	No	--	--	--	--	--
	Copper	-3.8%	2.4E-05	Yes	135	132	98	1/9/2008	9/2/2020
	Arsenic	-1.4%	4.1E-02	Yes	135	99	73	1/9/2008	9/2/2020
	Lead	-7.0%	1.1E-06	Yes	135	72	53	1/9/2008	9/2/2020
	Selenium	--	--	No	--	--	--	--	--
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	4.3%	2.8E-01	No	130	130	100	1/9/2008	9/2/2020
	Total Coliform	-3.1%	7.1E-02	Yes	127	127	100	1/9/2008	9/2/2020
	Dissolved Phosphorus	0.0%	6.8E-01	No	136	83	61	1/9/2008	9/2/2020
	Orthophosphate as P	0.0%	3.8E-11	Yes	173	38	22	10/12/2005	9/2/2020
	Total Phosphorus	4.4%	2.1E-03	Yes	227	208	92	10/12/2005	9/2/2020
	Ammonia Nitrogen as N	0.0%	7.0E-01	No	173	33	19	10/12/2005	9/2/2020
	Nitrate + Nitrite as N	-1.6%	4.3E-02	Yes	294	294	100	10/12/2005	9/2/2020
	Nitrogen, Kjeldahl	-0.8%	4.1E-01	No	135	128	95	1/9/2008	9/2/2020
	Total Nitrogen	-2.1%	2.7E-04	Yes	323	323	100	10/12/2005	9/2/2020
	Alkalinity	-0.1%	9.2E-01	No	291	291	100	10/12/2005	9/2/2020
	Dissolved oxygen (DO)	--	--	No	166	166	100	10/12/2005	9/2/2020
	Hardness	-0.9%	1.4E-01	No	320	320	100	10/12/2005	9/2/2020
	pH	-0.3%	8.7E-03	Yes	159	159	100	10/12/2005	9/2/2020
	Specific conductance	2.9%	1.9E-03	Yes	234	234	100	10/12/2005	9/2/2020
	Temperature	-0.7%	6.1E-01	No	330	330	100	10/12/2005	9/2/2020
	TOC	0.4%	7.9E-01	No	120	120	100	1/9/2008	9/2/2020
	TSS	--	--	No	13	13	100	4/11/2013	11/13/2013
	Sulfate	-2.0%	4.0E-03	Yes	322	322	100	10/12/2005	9/2/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M20	Cadmium	--	--	No	--	--	--	--	--
	Copper	-2.2%	1.1E-01	No	136	131	96	10/17/2005	11/6/2018
	Arsenic	0.0%	4.7E-01	No	142	121	85	10/17/2005	11/6/2018
	Lead	-6.8%	6.9E-11	Yes	142	105	74	10/17/2005	11/6/2018
	Selenium	10.0%	1.0E+00	No	13	11	85	10/17/2005	12/4/2006
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	0.3%	7.7E-01	No	143	143	100	10/17/2005	11/6/2018
	Total Coliform	-1.8%	5.6E-01	No	141	141	100	10/17/2005	11/6/2018
	Dissolved Phosphorus	0.0%	4.7E-02	Yes	179	141	79	10/17/2005	11/6/2018
	Orthophosphate as P	-3.0%	1.5E-04	Yes	179	79	44	10/17/2005	11/6/2018
	Total Phosphorus	1.6%	2.4E-01	No	179	178	99	10/17/2005	11/6/2018
	Ammonia Nitrogen as N	0.0%	1.3E-02	Yes	179	29	16	10/17/2005	11/6/2018
	Nitrate + Nitrite as N	-0.3%	7.6E-01	No	179	178	99	10/17/2005	11/6/2018
	Nitrogen, Kjeldahl	2.0%	6.9E-02	Yes	179	178	99	10/17/2005	11/6/2018
	Total Nitrogen	0.0%	8.6E-01	No	179	179	100	10/17/2005	11/6/2018
	Alkalinity	0.1%	6.8E-01	No	142	142	100	10/17/2005	11/6/2018
	Dissolved oxygen (DO)	--	--	No	178	178	100	10/17/2005	11/6/2018
	Hardness	0.7%	1.2E-01	No	142	142	100	10/17/2005	11/6/2018
	pH	-0.3%	2.7E-02	Yes	168	168	100	10/17/2005	11/6/2018
	Specific conductance	1.9%	2.6E-01	No	178	178	100	10/17/2005	11/6/2018
	Temperature	5.7%	2.6E-02	Yes	179	179	100	10/17/2005	11/6/2018
	TOC	3.6%	2.6E-03	Yes	145	145	100	10/17/2005	11/6/2018
	TSS	--	--	No	9	9	100	4/8/2013	11/12/2013
	Sulfate	0.1%	8.2E-01	No	142	142	100	10/17/2005	11/6/2018

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M30	Cadmium	0.0%	1.7E-09	Yes	108	4	3.7	2/3/2010	9/1/2020
	Copper	-3.2%	1.8E-04	Yes	159	154	97	10/17/2005	9/1/2020
	Arsenic	-1.2%	8.5E-03	Yes	160	128	80	10/17/2005	9/1/2020
	Lead	-6.5%	9.5E-14	Yes	160	121	76	10/17/2005	9/1/2020
	Selenium	--	--	No	2	2	100	6/5/2006	11/13/2006
	Zinc	0.0%	9.2E-01	No	98	51	52	2/15/2011	9/1/2020
	Escherichia coli	2.4%	5.1E-01	No	160	160	100	10/17/2005	9/1/2020
	Total Coliform	-2.0%	3.8E-01	No	157	157	100	10/17/2005	9/1/2020
	Dissolved Phosphorus	-3.6%	1.9E-02	Yes	203	203	100	10/17/2005	9/1/2020
	Orthophosphate as P	-5.9%	5.2E-04	Yes	203	158	78	10/17/2005	9/1/2020
	Total Phosphorus	-2.5%	5.2E-02	Yes	203	203	100	10/17/2005	9/1/2020
	Ammonia Nitrogen as N	-2.9%	2.4E-04	Yes	203	109	54	10/17/2005	9/1/2020
	Nitrate + Nitrite as N	0.6%	6.0E-01	No	203	203	100	10/17/2005	9/1/2020
	Nitrogen, Kjeldahl	0.0%	7.2E-01	No	203	203	100	10/17/2005	9/1/2020
	Total Nitrogen	0.5%	6.1E-01	No	203	203	100	10/17/2005	9/1/2020
	Alkalinity	-0.5%	3.0E-01	No	160	160	100	10/17/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	203	203	100	10/17/2005	9/1/2020
	Hardness	0.1%	8.7E-01	No	160	160	100	10/17/2005	9/1/2020
	pH	-0.3%	4.5E-03	Yes	200	200	100	10/17/2005	9/1/2020
	Specific conductance	0.7%	5.2E-01	No	203	203	100	10/17/2005	9/1/2020
	Temperature	2.2%	1.5E-01	No	204	204	100	10/17/2005	9/1/2020
	TOC	1.2%	1.0E-01	No	169	169	100	10/17/2005	9/1/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-0.8%	1.4E-02	Yes	160	160	100	10/17/2005	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
C10	Cadmium	0.0%	5.8E-03	Yes	30	0	0.0	1/9/2006	5/4/2020
	Copper	-0.3%	7.7E-01	No	104	102	98	12/13/2005	9/1/2020
	Arsenic	0.0%	5.6E-01	No	85	85	100	12/13/2005	9/1/2020
	Lead	-6.9%	8.8E-04	Yes	84	60	71	12/13/2005	9/1/2020
	Selenium	0.0%	5.8E-01	No	49	48	98	1/9/2006	9/1/2020
	Zinc	-8.3%	1.4E-05	Yes	77	54	70	12/13/2005	9/1/2020
	Escherichia coli	--	3.2E-04	Yes	143	143	100	12/13/2005	9/1/2020
	Total Coliform	4.3%	1.6E-01	No	143	143	100	12/13/2005	9/1/2020
	Dissolved Phosphorus	66.7%	4.8E-01	No	15	12	80	12/13/2005	2/13/2007
	Orthophosphate as P	0.0%	1.8E-02	Yes	140	47	34	12/13/2005	9/1/2020
	Total Phosphorus	0.0%	2.5E-01	No	144	144	100	12/13/2005	9/1/2020
	Ammonia Nitrogen as N	-2.0%	4.3E-04	Yes	130	79	61	12/13/2005	9/1/2020
	Nitrate + Nitrite as N	-4.4%	2.6E-04	Yes	142	133	94	12/13/2005	9/1/2020
	Nitrogen, Kjeldahl	1.1%	2.3E-03	Yes	144	144	100	12/13/2005	9/1/2020
	Total Nitrogen	-0.2%	5.9E-01	No	143	143	100	12/13/2005	9/1/2020
	Alkalinity	-1.9%	2.3E-03	Yes	86	86	100	12/13/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	144	144	100	12/13/2005	9/1/2020
	Hardness	-1.4%	2.2E-02	Yes	112	112	100	12/13/2005	9/1/2020
	pH	-0.1%	5.1E-03	Yes	143	143	100	12/13/2005	9/1/2020
	Specific conductance	-1.4%	1.4E-05	Yes	145	145	100	12/13/2005	9/1/2020
	Temperature	2.2%	1.8E-04	Yes	145	145	100	12/13/2005	9/1/2020
	TOC	-0.9%	1.2E-05	Yes	141	140	99	12/13/2005	9/1/2020
	TSS	-7.0%	3.0E-03	Yes	104	55	53	1/9/2006	5/4/2020
Sulfate	-1.1%	4.7E-02	Yes	91	91	100	12/13/2005	9/1/2020	

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
C20	Cadmium	0.0%	1.6E-04	Yes	48	4	8.333333333	1/10/2006	9/1/2020
	Copper	-0.3%	5.9E-01	No	102	101	99	12/12/2005	9/1/2020
	Arsenic	0.0%	8.3E-01	No	81	81	100	12/12/2005	9/1/2020
	Lead	-4.2%	5.7E-02	Yes	89	75	84	12/12/2005	9/1/2020
	Selenium	0.0%	6.5E-01	No	46	44	96	1/10/2006	9/1/2020
	Zinc	-4.9%	7.9E-03	Yes	74	54	73	1/10/2006	9/1/2020
	Escherichia coli	--	4.4E-01	No	40	40	100	12/12/2005	7/12/2016
	Total Coliform	-18.5%	1.9E-01	No	40	40	100	12/12/2005	7/12/2016
	Dissolved Phosphorus	-16.7%	7.3E-01	No	22	18	82	12/12/2005	1/8/2008
	Orthophosphate as P	0.0%	1.0E-01	No	142	92	65	12/12/2005	9/1/2020
	Total Phosphorus	1.8%	7.7E-03	Yes	142	142	100	12/12/2005	9/1/2020
	Ammonia Nitrogen as N	0.0%	5.0E-01	No	138	118	86	12/12/2005	9/1/2020
	Nitrate + Nitrite as N	0.6%	5.2E-01	No	142	142	100	12/12/2005	9/1/2020
	Nitrogen, Kjeldahl	2.1%	7.6E-08	Yes	142	142	100	12/12/2005	9/1/2020
	Total Nitrogen	1.8%	2.2E-06	Yes	142	142	100	12/12/2005	9/1/2020
	Alkalinity	-2.5%	3.0E-03	Yes	91	91	100	12/12/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	141	141	100	12/12/2005	9/1/2020
	Hardness	-2.3%	3.3E-03	Yes	110	110	100	12/12/2005	9/1/2020
	pH	-0.2%	4.3E-03	Yes	141	141	100	12/12/2005	9/1/2020
	Specific conductance	-0.7%	1.7E-02	Yes	143	143	100	12/12/2005	9/1/2020
	Temperature	0.5%	4.5E-01	No	143	143	100	12/12/2005	9/1/2020
	TOC	-1.1%	1.9E-06	Yes	139	139	100	12/12/2005	9/1/2020
	TSS	-4.2%	1.5E-02	Yes	113	67	59	1/10/2006	9/1/2020
	Sulfate	-1.7%	9.3E-03	Yes	91	91	100	12/12/2005	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M40	Cadmium	--	--	No	--	--	--	--	--
	Copper	-2.5%	4.9E-02	Yes	139	135	97	10/17/2005	11/6/2018
	Arsenic	0.0%	3.3E-01	No	142	142	100	10/17/2005	11/6/2018
	Lead	-6.3%	1.4E-08	Yes	142	105	74	10/17/2005	11/6/2018
	Selenium	--	--	No	2	2	100	6/6/2006	11/13/2006
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	10.5%	1.8E-01	No	142	142	100	10/17/2005	11/6/2018
	Total Coliform	2.9%	5.5E-01	No	140	140	100	10/17/2005	11/6/2018
	Dissolved Phosphorus	0.0%	8.8E-01	No	146	134	92	10/17/2005	11/6/2018
	Orthophosphate as P	-1.8%	2.1E-03	Yes	146	75	51	10/17/2005	11/6/2018
	Total Phosphorus	0.0%	8.5E-01	No	146	145	99	10/17/2005	11/6/2018
	Ammonia Nitrogen as N	0.0%	9.0E-02	Yes	146	87	60	10/17/2005	11/6/2018
	Nitrate + Nitrite as N	0.0%	9.7E-01	No	146	144	99	10/17/2005	11/6/2018
	Nitrogen, Kjeldahl	-0.3%	2.9E-01	No	146	146	100	10/17/2005	11/6/2018
	Total Nitrogen	0.0%	8.8E-01	No	146	146	100	10/17/2005	11/6/2018
	Alkalinity	-1.8%	7.3E-05	Yes	142	142	100	10/17/2005	11/6/2018
	Dissolved oxygen (DO)	--	--	No	145	145	100	10/17/2005	11/6/2018
	Hardness	-1.4%	1.7E-03	Yes	142	142	100	10/17/2005	11/6/2018
	pH	-0.4%	8.0E-05	Yes	142	142	100	10/17/2005	11/6/2018
	Specific conductance	-1.6%	1.0E-02	Yes	145	145	100	10/17/2005	11/6/2018
	Temperature	1.8%	3.5E-02	Yes	146	146	100	10/17/2005	11/6/2018
	TOC	0.5%	3.3E-01	No	117	117	100	10/17/2005	11/6/2018
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-2.0%	1.3E-06	Yes	142	142	100	10/17/2005	11/6/2018

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M50	Cadmium	0.0%	2.4E-13	Yes	98	0	0	2/16/2011	9/2/2020
	Copper	-3.5%	1.0E-05	Yes	156	152	97	10/18/2005	9/2/2020
	Arsenic	-0.6%	6.8E-02	Yes	160	160	100	10/18/2005	9/2/2020
	Lead	-6.7%	2.2E-16	Yes	160	118	74	10/18/2005	9/2/2020
	Selenium	--	--	No	2	2	100	6/6/2006	11/15/2006
	Zinc	0.0%	1.8E-01	No	98	52	53	2/16/2011	9/2/2020
	Escherichia coli	10.6%	1.2E-01	No	159	159	100	10/18/2005	9/2/2020
	Total Coliform	-3.2%	2.1E-01	No	157	157	100	10/18/2005	9/2/2020
	Dissolved Phosphorus	3.6%	4.4E-02	Yes	200	200	100	10/18/2005	9/2/2020
	Orthophosphate as P	6.0%	1.9E-02	Yes	199	197	99	10/18/2005	8/4/2020
	Total Phosphorus	2.0%	1.2E-01	No	200	200	100	10/18/2005	9/2/2020
	Ammonia Nitrogen as N	0.0%	1.0E+00	No	199	160	80	10/18/2005	8/4/2020
	Nitrate + Nitrite as N	2.0%	9.2E-02	Yes	200	200	100	10/18/2005	9/2/2020
	Nitrogen, Kjeldahl	0.0%	7.9E-01	No	200	200	100	10/18/2005	9/2/2020
	Total Nitrogen	0.8%	2.5E-01	No	200	200	100	10/18/2005	9/2/2020
	Alkalinity	-0.7%	3.6E-02	Yes	160	160	100	10/18/2005	9/2/2020
	Dissolved oxygen (DO)	--	--	No	199	199	100	10/18/2005	9/2/2020
	Hardness	-0.3%	3.6E-01	No	160	160	100	10/18/2005	9/2/2020
	pH	-0.5%	1.1E-05	Yes	197	197	100	10/18/2005	9/2/2020
	Specific conductance	0.2%	8.6E-01	No	200	200	100	10/18/2005	9/2/2020
	Temperature	2.1%	1.0E-01	No	200	200	100	10/18/2005	9/2/2020
	TOC	0.3%	4.8E-01	No	163	163	100	10/18/2005	9/2/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-1.1%	2.3E-03	Yes	160	160	100	10/18/2005	9/2/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M60	Cadmium	--	--	No	--	--	--	--	--
	Copper	-2.5%	4.2E-03	Yes	155	153	99	10/18/2005	9/2/2020
	Arsenic	0.0%	1.0E-01	No	159	158	99	10/18/2005	9/2/2020
	Lead	-5.4%	1.6E-06	Yes	159	120	75	10/18/2005	9/2/2020
	Selenium	--	--	No	2	2	100	6/6/2006	11/15/2006
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	33.7%	1.3E-05	Yes	158	158	100	10/18/2005	9/2/2020
	Total Coliform	-3.2%	3.7E-02	Yes	156	156	100	10/18/2005	9/2/2020
	Dissolved Phosphorus	5.8%	1.2E-03	Yes	159	159	100	10/18/2005	9/2/2020
	Orthophosphate as P	7.3%	2.2E-04	Yes	159	159	100	10/18/2005	9/2/2020
	Total Phosphorus	5.9%	8.3E-05	Yes	159	159	100	10/18/2005	9/2/2020
	Ammonia Nitrogen as N	0.0%	2.8E-05	Yes	159	79	50	10/18/2005	9/2/2020
	Nitrate + Nitrite as N	1.9%	2.4E-01	No	159	157	99	10/18/2005	9/2/2020
	Nitrogen, Kjeldahl	-1.1%	2.9E-02	Yes	159	159	100	10/18/2005	9/2/2020
	Total Nitrogen	0.4%	6.7E-01	No	159	159	100	10/18/2005	9/2/2020
	Alkalinity	-0.8%	1.6E-02	Yes	159	159	100	10/18/2005	9/2/2020
	Dissolved oxygen (DO)	--	--	No	157	157	100	10/18/2005	9/2/2020
	Hardness	-0.5%	1.2E-01	No	159	159	100	10/18/2005	9/2/2020
	pH	-0.4%	8.1E-07	Yes	155	155	100	10/18/2005	9/2/2020
	Specific conductance	-0.3%	5.6E-01	No	159	159	100	10/18/2005	9/2/2020
	Temperature	1.0%	9.9E-02	Yes	159	159	100	10/18/2005	9/2/2020
	TOC	-0.5%	1.8E-01	No	129	129	100	10/18/2005	9/2/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-1.1%	9.5E-03	Yes	159	159	100	10/18/2005	9/2/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
T10	Cadmium	--	--	No	--	--	--	--	--
	Copper	-2.8%	5.6E-03	Yes	160	150	94	10/18/2005	9/2/2020
	Arsenic	0.0%	3.1E-01	No	160	141	88	10/18/2005	9/2/2020
	Lead	-6.3%	1.1E-10	Yes	160	110	69	10/18/2005	9/2/2020
	Selenium	--	--	No	2	2	100	6/6/2006	11/15/2006
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	-7.6%	1.0E-02	Yes	159	159	100	10/18/2005	9/2/2020
	Total Coliform	-3.2%	2.9E-01	No	157	157	100	10/18/2005	9/2/2020
	Dissolved Phosphorus	2.3%	2.0E-02	Yes	160	149	93	10/18/2005	9/2/2020
	Orthophosphate as P	0.0%	3.9E-01	No	160	119	74	10/18/2005	9/2/2020
	Total Phosphorus	2.0%	4.7E-02	Yes	160	160	100	10/18/2005	9/2/2020
	Ammonia Nitrogen as N	0.0%	6.7E-04	Yes	160	31	19	10/18/2005	9/2/2020
	Nitrate + Nitrite as N	2.7%	3.4E-02	Yes	160	153	96	10/18/2005	9/2/2020
	Nitrogen, Kjeldahl	0.0%	8.0E-01	No	160	158	99	10/18/2005	9/2/2020
	Total Nitrogen	0.1%	8.5E-01	No	160	160	100	10/18/2005	9/2/2020
	Alkalinity	0.9%	6.9E-03	Yes	160	160	100	10/18/2005	9/2/2020
	Dissolved oxygen (DO)	--	--	No	159	159	100	10/18/2005	9/2/2020
	Hardness	1.9%	8.6E-05	Yes	160	160	100	10/18/2005	9/2/2020
	pH	-0.1%	6.7E-03	Yes	155	155	100	10/18/2005	9/2/2020
	Specific conductance	1.4%	2.9E-03	Yes	160	160	100	10/18/2005	9/2/2020
	Temperature	1.5%	2.8E-02	Yes	160	160	100	10/18/2005	9/2/2020
	TOC	1.5%	7.8E-03	Yes	132	132	100	10/18/2005	9/2/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-0.7%	1.3E-01	No	160	160	100	10/18/2005	9/2/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M70	Cadmium	--	--	No	48	1	2.083333333	4/20/2006	9/16/2020
	Copper	0.4%	6.8E-01	No	155	153	99	2/1/2006	9/16/2020
	Arsenic	0.0%	9.8E-01	No	137	129	94	4/20/2006	9/16/2020
	Lead	-1.6%	3.2E-01	No	144	113	78	4/20/2006	9/16/2020
	Selenium	0.0%	6.6E-01	No	48	39	81	4/20/2006	9/16/2020
	Zinc	2.5%	4.7E-01	No	36	36	100	6/9/2009	7/21/2020
	Escherichia coli	-5.0%	1.5E-01	No	158	158	100	10/18/2005	9/2/2020
	Total Coliform	-3.0%	1.4E-01	No	158	158	100	10/18/2005	9/2/2020
	Dissolved Phosphorus	2.6%	2.2E-01	No	179	179	100	10/17/2006	9/2/2020
	Orthophosphate as P	4.5%	8.0E-02	Yes	191	190	99	4/20/2006	9/16/2020
	Total Phosphorus	5.9%	3.9E-05	Yes	191	191	100	4/20/2006	9/16/2020
	Ammonia Nitrogen as N	0.0%	6.4E-01	No	247	150	61	4/20/2006	9/16/2020
	Nitrate + Nitrite as N	6.7%	8.0E-04	Yes	224	218	97	4/12/2006	9/16/2020
	Nitrogen, Kjeldahl	0.0%	9.2E-01	No	191	191	100	4/20/2006	9/16/2020
	Total Nitrogen	1.8%	4.0E-02	Yes	191	191	100	4/20/2006	9/16/2020
	Alkalinity	-0.1%	8.9E-01	No	199	199	100	2/1/2006	9/2/2020
	Dissolved oxygen (DO)	--	--	No	194	194	100	2/1/2006	9/16/2020
	Hardness	0.4%	3.5E-01	No	90	90	100	10/17/2006	9/2/2020
	pH	0.0%	7.9E-01	No	192	192	100	2/1/2006	9/16/2020
	Specific conductance	-1.0%	3.9E-01	No	233	233	100	10/18/2005	9/16/2020
	Temperature	1.3%	1.9E-01	No	251	248	99	2/1/2006	9/16/2020
	TOC	-0.6%	2.3E-01	No	147	146	99	10/17/2006	9/2/2020
	TSS	16.7%	7.9E-04	Yes	76	62	82	2/1/2006	9/16/2020
	Sulfate	0.7%	6.4E-01	No	148	131	89	2/1/2006	9/2/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
C30	Cadmium	0.0%	8.5E-01	No	59	2	3.4	4/20/2006	6/15/2020
	Copper	-6.1%	2.9E-05	Yes	152	150	99	10/13/2005	6/15/2020
	Arsenic	0.0%	7.4E-01	No	112	107	96	10/20/2005	6/15/2020
	Lead	-3.9%	1.2E-01	No	110	87	79	10/20/2005	6/15/2020
	Selenium	0.0%	9.0E-01	No	62	56	90	10/20/2005	6/15/2020
	Zinc	-2.4%	3.0E-01	No	49	45	92	6/9/2009	6/15/2020
	Escherichia coli	0.0%	1.0E+00	No	38	38	100	10/20/2005	10/3/2013
	Total Coliform	-11.3%	8.8E-01	No	37	37	100	10/20/2005	12/9/2008
	Dissolved Phosphorus	0.0%	1.0E+00	No	39	32	82	10/20/2005	7/14/2010
	Orthophosphate as P	0.0%	3.3E-01	No	170	82	48	10/20/2005	6/15/2020
	Total Phosphorus	2.4%	5.3E-05	Yes	172	172	100	10/20/2005	6/15/2020
	Ammonia Nitrogen as N	-3.3%	3.6E-02	Yes	158	113	72	10/20/2005	6/15/2020
	Nitrate + Nitrite as N	0.5%	7.2E-01	No	171	164	96	10/20/2005	6/15/2020
	Nitrogen, Kjeldahl	0.8%	1.8E-01	No	172	172	100	10/20/2005	6/15/2020
	Total Nitrogen	0.6%	2.5E-01	No	170	170	100	10/20/2005	6/15/2020
	Alkalinity	0.0%	7.9E-01	No	143	143	100	10/13/2005	6/15/2020
	Dissolved oxygen (DO)	--	--	No	173	173	100	10/13/2005	6/15/2020
	Hardness	-1.1%	5.5E-01	No	54	54	100	10/20/2005	9/15/2010
	pH	-0.5%	1.0E-06	Yes	173	173	100	10/13/2005	6/15/2020
	Specific conductance	-1.5%	2.0E-02	Yes	175	175	100	10/13/2005	6/15/2020
	Temperature	-0.2%	8.7E-01	No	175	175	100	10/13/2005	6/15/2020
	TOC	-1.0%	4.7E-03	Yes	152	152	100	12/15/2005	6/15/2020
	TSS	0.0%	2.0E-01	No	121	104	86	10/13/2005	6/15/2020
Sulfate	-0.7%	4.6E-01	No	135	116	86	10/13/2005	6/15/2020	

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
C40	Cadmium	0.0%	1.0E-02	Yes	65	0	0.0	4/20/2006	9/16/2020
	Copper	-6.7%	9.3E-08	Yes	155	154	99	10/20/2005	9/16/2020
	Arsenic	0.0%	7.0E-01	No	122	115	94	10/20/2005	9/16/2020
	Lead	-4.0%	3.7E-02	Yes	121	98	81	10/20/2005	9/16/2020
	Selenium	0.0%	1.4E-01	No	68	60	88	10/20/2005	9/16/2020
	Zinc	-4.1%	8.1E-02	Yes	52	51	98	6/9/2009	7/21/2020
	Escherichia coli	0.0%	1.0E+00	No	42	42	100	10/20/2005	10/3/2013
	Total Coliform	42.7%	4.7E-01	No	41	41	100	10/20/2005	12/9/2008
	Dissolved Phosphorus	0.0%	1.0E+00	No	38	35	92	10/20/2005	9/14/2010
	Orthophosphate as P	0.0%	3.7E-01	No	178	118	66	10/20/2005	9/16/2020
	Total Phosphorus	1.6%	5.5E-02	Yes	178	178	100	10/20/2005	9/16/2020
	Ammonia Nitrogen as N	-4.0%	2.8E-02	Yes	161	114	71	10/20/2005	9/16/2020
	Nitrate + Nitrite as N	0.0%	9.6E-01	No	177	166	94	10/20/2005	9/16/2020
	Nitrogen, Kjeldahl	0.4%	3.6E-01	No	180	180	100	10/20/2005	9/16/2020
	Total Nitrogen	0.8%	9.7E-02	Yes	177	177	100	10/20/2005	9/16/2020
	Alkalinity	-0.8%	3.2E-01	No	151	150	99	10/20/2005	7/21/2020
	Dissolved oxygen (DO)	--	--	No	181	181	100	10/20/2005	9/16/2020
	Hardness	0.0%	6.2E-01	No	57	57	100	10/20/2005	9/14/2010
	pH	-0.3%	9.9E-03	Yes	181	181	100	10/20/2005	9/16/2020
	Specific conductance	-1.1%	6.7E-02	Yes	182	182	100	10/20/2005	9/16/2020
	Temperature	0.0%	1.0E+00	No	182	182	100	10/20/2005	9/16/2020
	TOC	-1.3%	1.2E-03	Yes	161	161	100	10/20/2005	7/21/2020
	TSS	0.0%	1.0E+00	No	124	111	90	2/1/2006	9/16/2020
	Sulfate	-1.0%	4.7E-01	No	137	120	88	10/20/2005	7/21/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
C50	Cadmium	0.0%	1.4E-01	No	63	0	0.0	7/18/2006	9/16/2020
	Copper	-7.0%	1.2E-07	Yes	153	152	99	10/20/2005	9/16/2020
	Arsenic	0.0%	8.3E-01	No	120	115	96	10/20/2005	9/16/2020
	Lead	-5.0%	2.5E-03	Yes	119	108	91	10/20/2005	9/16/2020
	Selenium	0.0%	9.7E-01	No	65	58	89	10/20/2005	7/21/2020
	Zinc	-4.8%	6.4E-03	Yes	52	51	98	6/9/2009	7/21/2020
	Escherichia coli	89.2%	8.8E-01	No	41	41	100	10/20/2005	10/3/2013
	Total Coliform	45.2%	3.3E-01	No	40	40	100	10/20/2005	1/6/2009
	Dissolved Phosphorus	-17.9%	1.0E-01	No	32	27	84	10/20/2005	9/14/2010
	Orthophosphate as P	0.0%	5.3E-02	Yes	177	111	63	10/20/2005	9/16/2020
	Total Phosphorus	1.6%	4.3E-02	Yes	179	179	100	10/20/2005	9/16/2020
	Ammonia Nitrogen as N	-1.9%	6.9E-02	Yes	154	105	68	10/20/2005	9/16/2020
	Nitrate + Nitrite as N	0.8%	6.9E-01	No	174	169	97	10/20/2005	9/16/2020
	Nitrogen, Kjeldahl	0.6%	1.4E-01	No	180	180	100	10/20/2005	9/16/2020
	Total Nitrogen	1.1%	7.6E-02	Yes	174	174	100	10/20/2005	9/16/2020
	Alkalinity	-0.6%	4.5E-01	No	139	138	99	10/20/2005	7/21/2020
	Dissolved oxygen (DO)	--	--	No	180	180	100	10/20/2005	9/16/2020
	Hardness	-1.2%	3.3E-01	No	58	58	100	10/20/2005	11/16/2010
	pH	0.0%	8.3E-01	No	179	179	100	10/20/2005	9/16/2020
	Specific conductance	-0.4%	4.4E-01	No	181	181	100	10/20/2005	9/16/2020
	Temperature	-0.2%	9.2E-01	No	180	180	100	10/20/2005	9/16/2020
	TOC	-1.0%	2.1E-03	Yes	161	160	99	10/20/2005	7/21/2020
	TSS	1.5%	2.5E-01	No	118	96	81	2/1/2006	9/16/2020
	Sulfate	-0.7%	5.1E-01	No	134	119	89	10/20/2005	7/21/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M90	Cadmium	0.0%	4.6E-02	Yes	52	0	0	4/20/2006	9/16/2020
	Copper	0.0%	9.7E-01	No	213	211	99	2/1/2006	9/16/2020
	Arsenic	0.0%	4.4E-01	No	169	159	94	2/8/2006	9/16/2020
	Lead	0.3%	7.7E-01	No	171	140	82	2/8/2006	9/16/2020
	Selenium	0.0%	2.7E-01	No	167	149	89	10/19/2005	9/1/2020
	Zinc	3.1%	7.2E-01	No	39	39	100	6/9/2009	7/21/2020
	Escherichia coli	0.0%	7.2E-01	No	161	161	100	10/19/2005	9/1/2020
	Total Coliform	-3.3%	2.1E-01	No	160	160	100	10/19/2005	9/1/2020
	Dissolved Phosphorus	2.0%	1.2E-01	No	141	141	100	2/8/2006	9/1/2020
	Orthophosphate as P	10.0%	1.7E-04	Yes	233	229	98	2/8/2006	9/16/2020
	Total Phosphorus	4.9%	1.4E-04	Yes	233	233	100	2/8/2006	9/16/2020
	Ammonia Nitrogen as N	-2.9%	6.2E-02	Yes	252	186	74	2/8/2006	9/16/2020
	Nitrate + Nitrite as N	9.9%	3.7E-05	Yes	239	236	99	2/8/2006	9/16/2020
	Nitrogen, Kjeldahl	0.6%	5.2E-01	No	234	234	100	2/8/2006	9/16/2020
	Total Nitrogen	3.2%	6.9E-04	Yes	233	233	100	2/8/2006	9/16/2020
	Alkalinity	-0.1%	8.8E-01	No	227	227	100	2/1/2006	9/1/2020
	Dissolved oxygen (DO)	--	--	No	233	233	100	2/8/2006	9/16/2020
	Hardness	0.5%	8.8E-02	Yes	120	120	100	2/8/2006	9/1/2020
	pH	-0.1%	1.2E-01	No	229	229	100	2/8/2006	9/16/2020
	Specific conductance	0.0%	9.0E-01	No	272	272	100	10/19/2005	9/16/2020
	Temperature	0.2%	7.9E-01	No	256	254	99	2/8/2006	9/16/2020
	TOC	-0.4%	6.5E-01	No	194	194	100	2/8/2006	9/1/2020
	TSS	10.0%	3.7E-04	Yes	114	99	87	2/1/2006	9/16/2020
	Sulfate	-0.3%	8.3E-01	No	189	173	92	2/1/2006	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
T20	Cadmium	--	--	No	--	--	--	--	--
	Copper	-3.4%	6.1E-03	Yes	126	107	85	1/7/2008	7/7/2020
	Arsenic	-1.7%	1.1E-03	Yes	127	127	100	1/7/2008	7/7/2020
	Lead	-4.3%	3.7E-05	Yes	127	50	39	1/7/2008	7/7/2020
	Selenium	--	--	No	--	--	--	--	--
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	-2.3%	4.7E-01	No	126	126	100	1/7/2008	7/7/2020
	Total Coliform	-3.2%	1.3E-01	No	126	126	100	1/7/2008	7/7/2020
	Dissolved Phosphorus	1.3%	1.8E-01	No	127	126	99	1/7/2008	7/7/2020
	Orthophosphate as P	-1.9%	4.8E-02	Yes	127	125	98	1/7/2008	7/7/2020
	Total Phosphorus	0.3%	6.3E-01	No	127	127	100	1/7/2008	7/7/2020
	Ammonia Nitrogen as N	0.0%	4.5E-05	Yes	127	83	65	1/7/2008	7/7/2020
	Nitrate + Nitrite as N	-5.6%	1.8E-05	Yes	127	127	100	1/7/2008	7/7/2020
	Nitrogen, Kjeldahl	-0.9%	1.6E-01	No	127	127	100	1/7/2008	7/7/2020
	Total Nitrogen	-3.1%	3.7E-05	Yes	127	127	100	1/7/2008	7/7/2020
	Alkalinity	-2.5%	1.5E-06	Yes	127	127	100	1/7/2008	7/7/2020
	Dissolved oxygen (DO)	--	--	No	125	125	100	1/7/2008	7/7/2020
	Hardness	-2.4%	3.9E-04	Yes	127	127	100	1/7/2008	7/7/2020
	pH	-0.1%	2.6E-03	Yes	126	126	100	1/7/2008	7/7/2020
	Specific conductance	-2.3%	4.0E-05	Yes	127	127	100	1/7/2008	7/7/2020
	Temperature	0.0%	9.8E-01	No	126	126	100	1/7/2008	7/7/2020
	TOC	3.0%	2.9E-03	Yes	110	110	100	1/7/2008	7/7/2020
	TSS	--	--	No	--	--	--	--	--
Sulfate	-4.0%	9.7E-05	Yes	127	127	100	1/7/2008	7/7/2020	

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M130	Cadmium	--	--	No	--	--	--	--	--
	Copper	-5.8%	1.3E-09	Yes	160	149	93	10/19/2005	9/1/2020
	Arsenic	-0.4%	4.6E-01	No	160	158	99	10/19/2005	9/1/2020
	Lead	-5.9%	3.7E-07	Yes	160	99	62	10/19/2005	9/1/2020
	Selenium	-1.7%	4.4E-01	No	80	80	100	6/7/2006	9/1/2020
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	-3.1%	9.1E-02	Yes	160	160	100	10/19/2005	9/1/2020
	Total Coliform	1.0%	3.8E-01	No	159	159	100	10/19/2005	9/1/2020
	Dissolved Phosphorus	0.0%	4.7E-01	No	174	171	98	10/19/2005	9/1/2020
	Orthophosphate as P	0.0%	8.4E-01	No	174	129	74	10/19/2005	9/1/2020
	Total Phosphorus	1.1%	3.4E-01	No	174	174	100	10/19/2005	9/1/2020
	Ammonia Nitrogen as N	0.0%	6.3E-04	Yes	174	120	69	10/19/2005	9/1/2020
	Nitrate + Nitrite as N	-0.5%	5.0E-01	No	174	174	100	10/19/2005	9/1/2020
	Nitrogen, Kjeldahl	-1.4%	2.1E-03	Yes	174	172	99	10/19/2005	9/1/2020
	Total Nitrogen	-1.2%	6.3E-03	Yes	174	174	100	10/19/2005	9/1/2020
	Alkalinity	-1.6%	9.7E-03	Yes	160	160	100	10/19/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	173	173	100	10/19/2005	9/1/2020
	Hardness	-2.8%	6.2E-04	Yes	160	160	100	10/19/2005	9/1/2020
	pH	0.0%	6.1E-01	No	174	174	100	10/19/2005	9/1/2020
	Specific conductance	-2.6%	5.0E-05	Yes	175	175	100	10/19/2005	9/1/2020
	Temperature	-0.4%	6.1E-01	No	175	175	100	10/19/2005	9/1/2020
	TOC	0.3%	5.8E-01	No	132	132	100	10/19/2005	9/1/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-3.6%	4.1E-05	Yes	160	160	100	10/19/2005	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M140	Cadmium	0.0%	5.9E-02	Yes	109	43	39.4	2/2/2010	9/1/2020
	Copper	-5.8%	1.1E-12	Yes	160	157	98	10/21/2005	9/1/2020
	Arsenic	-0.6%	2.5E-01	No	161	159	99	10/21/2005	9/1/2020
	Lead	-6.2%	9.4E-12	Yes	161	159	99	10/21/2005	9/1/2020
	Selenium	0.0%	9.0E-01	No	79	79	100	6/8/2006	9/1/2020
	Zinc	-0.9%	8.4E-01	No	99	96	97	2/15/2011	9/1/2020
	Escherichia coli	2.6%	2.9E-01	No	160	160	100	10/21/2005	9/1/2020
	Total Coliform	6.6%	6.6E-05	Yes	159	159	100	10/21/2005	9/1/2020
	Dissolved Phosphorus	-3.9%	2.8E-03	Yes	214	214	100	10/21/2005	9/1/2020
	Orthophosphate as P	-4.2%	1.4E-03	Yes	213	213	100	10/21/2005	9/1/2020
	Total Phosphorus	-2.5%	2.6E-02	Yes	213	213	100	10/21/2005	9/1/2020
	Ammonia Nitrogen as N	0.0%	1.5E-02	Yes	213	209	98	10/21/2005	9/1/2020
	Nitrate + Nitrite as N	-3.2%	7.2E-03	Yes	214	214	100	10/21/2005	9/1/2020
	Nitrogen, Kjeldahl	-1.1%	1.7E-01	No	211	211	100	10/21/2005	9/1/2020
	Total Nitrogen	-2.7%	3.2E-02	Yes	213	213	100	10/21/2005	9/1/2020
	Alkalinity	-1.5%	2.9E-03	Yes	161	161	100	10/21/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	211	211	100	10/21/2005	9/1/2020
	Hardness	-2.9%	2.1E-04	Yes	161	161	100	10/21/2005	9/1/2020
	pH	0.0%	6.9E-01	No	215	215	100	10/21/2005	9/1/2020
	Specific conductance	-2.7%	1.5E-03	Yes	215	215	100	10/21/2005	9/1/2020
	Temperature	1.1%	9.2E-02	Yes	215	215	100	10/21/2005	9/1/2020
	TOC	0.5%	4.9E-01	No	164	164	100	10/21/2005	9/1/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-3.6%	1.2E-06	Yes	161	161	100	10/21/2005	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
M150	Cadmium	--	--	No	--	--	--	--	--
	Copper	-6.0%	1.3E-14	Yes	160	153	96	10/21/2005	9/1/2020
	Arsenic	-0.8%	1.4E-01	No	160	159	99	10/21/2005	9/1/2020
	Lead	-7.4%	3.0E-16	Yes	160	153	96	10/21/2005	9/1/2020
	Selenium	-0.9%	2.5E-01	No	155	155	100	10/21/2005	9/1/2020
	Zinc	--	--	No	--	--	--	--	--
	Escherichia coli	1.0%	6.2E-01	No	161	161	100	10/21/2005	9/1/2020
	Total Coliform	2.8%	5.1E-02	Yes	159	159	100	10/21/2005	9/1/2020
	Dissolved Phosphorus	-7.2%	7.1E-12	Yes	160	160	100	10/21/2005	9/1/2020
	Orthophosphate as P	-7.5%	4.1E-13	Yes	160	160	100	10/21/2005	9/1/2020
	Total Phosphorus	-6.5%	1.8E-12	Yes	160	160	100	10/21/2005	9/1/2020
	Ammonia Nitrogen as N	0.0%	2.2E-01	No	160	154	96	10/21/2005	9/1/2020
	Nitrate + Nitrite as N	-5.4%	3.8E-08	Yes	160	160	100	10/21/2005	9/1/2020
	Nitrogen, Kjeldahl	-2.2%	3.5E-04	Yes	160	160	100	10/21/2005	9/1/2020
	Total Nitrogen	-4.4%	6.5E-08	Yes	160	160	100	10/21/2005	9/1/2020
	Alkalinity	-0.9%	4.0E-02	Yes	160	160	100	10/21/2005	9/1/2020
	Dissolved oxygen (DO)	--	--	No	158	158	100	10/21/2005	9/1/2020
	Hardness	-1.8%	7.8E-04	Yes	160	160	100	10/21/2005	9/1/2020
	pH	0.0%	3.4E-01	No	160	160	100	10/21/2005	9/1/2020
	Specific conductance	-2.1%	7.9E-05	Yes	160	160	100	10/21/2005	9/1/2020
	Temperature	1.5%	1.3E-02	Yes	160	160	100	10/21/2005	9/1/2020
	TOC	-0.4%	6.9E-01	No	131	131	100	10/21/2005	9/1/2020
	TSS	--	--	No	--	--	--	--	--
	Sulfate	-2.8%	3.8E-06	Yes	160	160	100	10/21/2005	9/1/2020

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
VT05	Cadmium	0.0%	7.2E-01	No	35	1	2.857142857	4/22/2008	9/10/2014
	Copper	-10.9%	3.6E-03	Yes	65	25	38	4/22/2008	11/6/2019
	Arsenic	-9.9%	3.0E-01	No	30	30	100	2/6/2017	11/6/2019
	Lead	-10.5%	1.5E-06	Yes	65	26	40	4/22/2008	11/6/2019
	Selenium	-4.8%	2.7E-01	No	35	35	100	4/22/2008	9/10/2014
	Zinc	7.1%	4.2E-01	No	29	29	100	4/22/2008	11/8/2011
	Escherichia coli	-0.2%	8.7E-01	No	72	72	100	4/22/2008	11/6/2019
	Total Coliform	0.0%	6.8E-01	No	66	66	100	4/22/2008	11/6/2019
	Dissolved Phosphorus	8.8%	3.5E-01	No	40	40	100	10/25/2013	11/6/2019
	Orthophosphate as P	14.4%	2.3E-05	Yes	75	74	99	4/22/2008	11/6/2019
	Total Phosphorus	14.5%	1.9E-09	Yes	86	85	99	4/22/2008	11/6/2019
	Ammonia Nitrogen as N	2.8%	2.2E-01	No	86	86	100	4/22/2008	11/6/2019
	Nitrate + Nitrite as N	8.4%	1.2E-03	Yes	78	78	100	4/22/2008	11/6/2019
	Nitrogen, Kjeldahl	3.8%	7.1E-01	No	51	51	100	5/9/2012	11/6/2019
	Total Nitrogen	3.7%	2.7E-03	Yes	86	86	100	4/22/2008	11/6/2019
	Alkalinity	-1.4%	2.6E-04	Yes	65	65	100	4/22/2008	11/6/2019
	Dissolved oxygen (DO)	--	--	No	82	82	100	4/22/2008	11/6/2019
	Hardness	-0.3%	6.3E-01	No	65	65	100	4/22/2008	11/6/2019
	pH	0.2%	8.6E-02	Yes	81	81	100	4/22/2008	11/6/2019
	Specific conductance	-0.9%	6.6E-01	No	86	86	100	4/22/2008	11/6/2019
	Temperature	0.3%	7.4E-01	No	85	85	100	4/22/2008	11/6/2019
	TOC	2.0%	1.1E-03	Yes	61	61	100	4/22/2008	11/6/2019
	TSS	-30.7%	7.6E-01	No	17	17	100	4/6/2010	5/9/2012
Sulfate	1.7%	4.4E-01	No	35	35	100	4/16/2014	11/6/2019	

Table E-1. Raw Mann-Kendall Statistical Testing Results

Station	Analyte	Sen Slope (as % of mean)	p-value	Significant Result (p-value < 0.1)	# Analyzed	# Detected	% Detected	Earliest Sample Date	Latest Sample Date
VM05	Cadmium	0.0%	1.0E+00	No	35	1	2.857142857	4/22/2008	9/10/2014
	Copper	-10.2%	1.9E-03	Yes	73	31	42	4/22/2008	9/2/2020
	Arsenic	-6.5%	2.1E-02	Yes	38	37	97	2/6/2017	9/2/2020
	Lead	-11.0%	1.7E-04	Yes	73	37	51	4/22/2008	9/2/2020
	Selenium	-3.6%	1.1E-01	No	35	35	100	4/22/2008	9/10/2014
	Zinc	49.1%	1.9E-01	No	30	27	90	4/22/2008	11/8/2011
	Escherichia coli	2.8%	4.1E-01	No	80	80	100	4/22/2008	9/2/2020
	Total Coliform	6.2%	2.0E-02	Yes	74	74	100	4/22/2008	9/2/2020
	Dissolved Phosphorus	-22.9%	7.9E-03	Yes	39	39	100	10/25/2013	9/2/2020
	Orthophosphate as P	2.3%	1.7E-01	No	74	74	100	4/22/2008	9/2/2020
	Total Phosphorus	4.6%	1.1E-03	Yes	85	85	100	4/22/2008	9/2/2020
	Ammonia Nitrogen as N	18.6%	1.8E-05	Yes	85	68	80	4/22/2008	9/2/2020
	Nitrate + Nitrite as N	3.4%	2.1E-03	Yes	77	77	100	4/22/2008	9/2/2020
	Nitrogen, Kjeldahl	0.7%	5.0E-01	No	50	50	100	5/9/2012	9/2/2020
	Total Nitrogen	2.5%	5.0E-03	Yes	85	85	100	4/22/2008	9/2/2020
	Alkalinity	-1.6%	2.9E-05	Yes	73	73	100	4/22/2008	9/2/2020
	Dissolved oxygen (DO)	--	--	No	83	83	100	4/22/2008	9/2/2020
	Hardness	-1.2%	1.7E-02	Yes	73	73	100	4/22/2008	9/2/2020
	pH	0.0%	1.4E-01	No	79	79	100	4/22/2008	9/2/2020
	Specific conductance	-1.5%	1.1E-03	Yes	85	85	100	4/22/2008	9/2/2020
	Temperature	0.0%	9.5E-01	No	85	85	100	4/22/2008	9/2/2020
	TOC	1.7%	4.2E-03	Yes	66	66	100	4/22/2008	9/2/2020
	TSS	-44.2%	3.6E-01	No	17	17	100	4/6/2010	5/9/2012
	Sulfate	-0.4%	6.4E-01	No	43	43	100	4/16/2014	9/2/2020

Non-conforming data - means fewer than half the monthly values were each missing more than half the possible comparisons between the first and the last 20% of the years.

NA - Not Applicable

¹ - Statistically significant, but slope is zero

 p-value < 0.1

Table F-1. Acute Exceedance Compliance Summary, 2006-2020. (Percent of Observations above Standard Value)

StationID	Aresenic Total	Ammonia Nitrogen as N	Cadmium Dissolved	Copper Dissolved	Lead Dissolved	Nitrate + Nitrite as N	pH (min. threshold)	pH (max. threshold)	Selenium Dissolved	Temperature	Zinc Dissolved
M10	0%	0%	--	56%	0%	0%	3%	0%	--	0%	--
M20	0%	0%	--	34%	0%	0%	0%	0%	0%	0%	--
M30	0%	0%	0%	27%	0%	0%	0%	0%	0%	0%	0%
M40	0%	0%	--	0%	0%	0%	0%	0%	0%	0%	0%
M50	0%	0%	0%	1%	0%	0%	0%	5%	0%	0%	0%
M60	0%	0%	--	1%	0%	0%	0%	1%	0%	0%	--
T10	0%	0%	--	1%	0%	0%	0%	0%	0%	0%	--
M70	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%
M90	0%	0%	0%	21%	0%	0%	0%	1%	0%	0%	0%
T20	0%	0%	--	0%	0%	0%	0%	0%	--	0%	--
M130	0%	0%	--	0%	0%	0%	0%	0%	0%	0%	--
M140	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
M150	0%	1%	--	1%	0%	2%	0%	0%	0%	0%	--
VT05	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%
VM05	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-2. Chronic Exceedance Compliance Summary, 2006-2020. (Percent of Observations above Standard Value)

StationID	Arsenic Total *	Ammonia Nitrogen as N	Caesium, Dissolved	Copper, Dissolved	Dissolved oxygen (DO)	Escherichia coli	Lead, Dissolved	Selenium, Dissolved	Sulfate, Dissolved	Zinc, Dissolved
M10	73%	0%	--	70%	0%	8%	0%	--	0%	--
M20	85%	0%	--	45%	0%	12%	3%	0%	0%	--
M30	80%	0%	0%	38%	0%	12%	4%	0%	0%	0%
M40	100%	0%	--	1%	0%	5%	2%	0%	0%	0%
M50	100%	0%	0%	1%	0%	5%	1%	0%	0%	0%
M60	99%	0%	--	1%	0%	4%	2%	0%	0%	--
T10	88%	0%	--	3%	0%	13%	3%	0%	0%	--
M70	94%	0%	0%	0%	1%	4%	1%	0%	0%	0%
M90	94%	0%	0%	31%	0%	2%	1%	0%	0%	0%
T20	100%	0%	--	1%	1%	38%	0%	--	0%	--
M130	0%	0%	--	2%	0%	28%	0%	23%	0%	--
M140	0%	0%	0%	1%	0%	42%	0%	9%	0%	0%
M150	99%	0%	--	1%	1%	38%	0%	6%	51%	--
VT05	100%	0%	0%	0%	0%	67%	2%	94%	100%	0%
VM05	97%	0%	0%	1%	0%	74%	1%	77%	91%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

*Note that standard is for total arsenic, but comparisons are made here to dissolved arsenic due to data limitations.

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Arsenic Total																	
	M10	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	--	--	--	--	--	--	--	--	--	0%	0%	0%	0%	0%
	VM05	--	--	--	--	--	--	--	--	--	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Ammonia Nitrogen as N																	
	M10	0%	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	1%
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Cadmium Dissolved																	
	M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M30	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M50	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M70	--	--	--	--	--	--	--	--	--	--	--	0%	--	--	--	0%
	M90	--	--	--	0%	--	--	--	0%	--	--	--	0%	--	--	--	0%
	T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M140	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%
	VM05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Copper Dissolved																	
	M10	--	--	67%	55%	30%	90%	100%	73%	50%	50%	50%	40%	40%	50%	30%	56%
	M20	47%	29%	33%	18%	20%	50%	80%	40%	50%	33%	10%	20%	10%	0%	--	34%
	M30	33%	42%	17%	27%	20%	50%	50%	40%	20%	33%	20%	20%	0%	10%	20%	27%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	1%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	11%	0%	0%	0%	0%	0%	0%	1%
	T10	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	33%	14%	25%	33%	56%	44%	30%	29%	22%	10%	10%	10%	0%	0%	21%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	1%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	1%
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	13%	0%	0%	--	0%	--	--	0%	0%	0%	0%	1%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Lead Dissolved																	
	M10	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Nitrate + Nitrite as N																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	8%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	2%
	VT05	--	--	0%	0%	0%	0%	0%	0%	14%	--	--	9%	0%	0%	0%	3%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years	
pH (min. threshold)																		
	M10	0%	0%	0%	0%	0%	0%	0%	12%	0%	0%	0%	11%	0%	0%	0%	3%	
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%	
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%	
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%	
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%	

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
pH (max. threshold)																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	13%	14%	38%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
	M60	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	11%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M90	0%	0%	0%	0%	0%	6%	6%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Selenium Dissolved																	
	M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M20	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M30	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M40	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M50	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M60	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	T10	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M130	0%	0%	0%	0%	33%	33%	33%	25%	0%	0%	44%	40%	10%	50%	0%	23%
	M140	0%	0%	0%	0%	33%	33%	0%	0%	0%	0%	22%	30%	0%	0%	0%	9%
	M150	10%	0%	0%	9%	10%	20%	0%	0%	0%	0%	20%	30%	0%	0%	0%	6%
	VT05	--	--	100%	100%	88%	88%	100%	--	100%	--	--	--	--	--	--	94%
	VM05	--	--	100%	100%	63%	63%	100%	--	60%	--	--	--	--	--	--	77%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Temperature																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-3. Year-by-Year Acute Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Zinc Dissolved																	
	M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M30	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M50	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M70	--	--	--	--	--	--	--	--	--	--	--	0%	--	--	--	0%
	M90	--	--	--	0%	--	--	--	--	--	--	--	0%	--	--	--	0%
	T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M140	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%
	VM05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Arsenic Total*																	
	M10	--	--	100%	100%	90%	100%	100%	93%	60%	40%	60%	90%	60%	30%	20%	73%
	M20	93%	83%	100%	100%	100%	100%	100%	100%	70%	50%	70%	90%	60%	0%	--	85%
	M30	93%	92%	100%	100%	100%	100%	100%	100%	80%	50%	80%	90%	50%	30%	20%	80%
	M40	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	--	100%
	M50	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	M60	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	99%
	T10	100%	100%	100%	100%	90%	100%	100%	100%	100%	80%	90%	100%	70%	50%	30%	88%
	M70	0%	83%	60%	83%	100%	100%	100%	100%	100%	100%	100%	100%	100%	93%	93%	94%
	M90	50%	80%	78%	89%	100%	100%	100%	100%	100%	100%	93%	100%	100%	93%	87%	94%
	T20	--	--	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	100%	99%
	VT05	--	--	--	--	--	--	--	--	--	--	--	100%	100%	100%	100%	100%
	VM05	--	--	--	--	--	--	--	--	--	--	--	100%	100%	100%	90%	97%

Shading indicates relative % to aid in visual review

'--' indicates no data

*Note that standard is for total arsenic, but comparisons are made here to dissolved arsenic due to data limitations.

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Ammonia Nitrogen as N																	
	M10	0%	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Copper Dissolved																	
	M10	--	--	67%	55%	80%	100%	100%	87%	70%	70%	70%	60%	60%	60%	30%	70%
	M20	60%	29%	42%	27%	30%	60%	90%	50%	60%	44%	30%	30%	30%	0%	--	45%
	M30	60%	50%	17%	36%	20%	60%	50%	60%	40%	44%	20%	30%	20%	20%	30%	38%
	M40	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	1%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	1%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	22%	0%	0%	0%	0%	0%	0%	1%
	T10	7%	8%	0%	0%	0%	0%	20%	10%	0%	0%	0%	0%	0%	0%	0%	3%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	33%	14%	25%	33%	67%	78%	30%	43%	33%	20%	10%	30%	10%	20%	31%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	1%
	M130	7%	0%	0%	0%	0%	10%	0%	0%	10%	0%	0%	0%	0%	0%	0%	2%
	M140	0%	0%	0%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	1%
	M150	0%	0%	0%	0%	0%	10%	0%	0%	10%	0%	0%	0%	0%	0%	0%	1%
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	13%	0%	0%	--	0%	--	--	0%	0%	0%	0%	1%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Dissolved oxygen (DO)																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	11%	0%	0%	0%	0%	0%	0%	0%	1%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	VT05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%
	VM05	--	--	0%	0%	0%	0%	0%	0%	0%	--	--	0%	0%	0%	0%	0%

Shading indicates relative % to aid in visual review
 '--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Escherichia coli																	
	M10	--	--	0%	0%	10%	10%	0%	9%	11%	20%	10%	20%	0%	0%	10%	8%
	M20	7%	17%	0%	18%	0%	20%	0%	9%	0%	20%	30%	30%	9%	0%	--	12%
	M30	27%	17%	8%	9%	0%	0%	9%	9%	11%	20%	30%	20%	0%	0%	10%	12%
	M40	13%	0%	0%	0%	0%	0%	0%	10%	0%	20%	10%	10%	0%	0%	--	5%
	M50	7%	0%	0%	0%	10%	0%	0%	0%	10%	20%	10%	10%	0%	0%	10%	5%
	M60	7%	0%	0%	0%	10%	10%	0%	0%	0%	20%	10%	0%	0%	0%	10%	4%
	T10	7%	0%	8%	45%	30%	10%	50%	0%	0%	10%	0%	20%	10%	0%	0%	13%
	M70	13%	0%	0%	0%	10%	0%	0%	0%	0%	20%	0%	0%	0%	0%	10%	4%
	M90	0%	0%	0%	0%	10%	0%	0%	0%	0%	10%	0%	0%	0%	0%	10%	2%
	T20	--	--	33%	27%	30%	50%	55%	55%	22%	40%	30%	30%	44%	44%	29%	38%
	M130	40%	17%	33%	27%	30%	30%	20%	27%	22%	40%	20%	40%	10%	30%	30%	28%
	M140	47%	25%	50%	55%	50%	30%	30%	45%	44%	40%	40%	60%	20%	50%	40%	42%
	M150	53%	33%	25%	0%	60%	50%	18%	64%	22%	40%	40%	40%	40%	30%	50%	38%
	VT05	--	--	67%	67%	63%	88%	100%	60%	50%	--	--	63%	50%	67%	50%	67%
	VM05	--	--	67%	67%	75%	88%	100%	80%	50%	--	--	75%	60%	67%	80%	74%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Lead Dissolved																	
	M10	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	13%	8%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	3%
	M30	13%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%
	M40	0%	0%	8%	0%	0%	10%	0%	0%	0%	10%	0%	0%	0%	0%	--	2%
	M50	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M60	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%
	T10	7%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	3%
	M70	--	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	1%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	13%	0%	0%	--	0%	--	--	0%	0%	0%	0%	2%
	VM05	--	--	0%	0%	13%	0%	0%	--	0%	--	--	0%	0%	0%	0%	1%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Selenium Dissolved																	
	M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M20	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M30	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M40	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M50	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M60	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	T10	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%
	VM05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Sulfate Dissolved																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M70	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	47%	75%	67%	91%	60%	50%	50%	60%	0%	0%	60%	40%	50%	60%	40%	51%
	VT05	--	--	--	--	--	--	--	--	100%	--	--	100%	100%	100%	100%	100%
	VM05	--	--	--	--	--	--	--	--	80%	--	--	100%	100%	80%	90%	91%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-4. Year-by-Year Chronic Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Zinc Dissolved																	
	M10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M30	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M40	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0%
	M50	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	T10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M70	--	--	--	--	--	--	--	--	--	--	--	0%	--	--	--	0%
	M90	--	--	--	0%	--	--	--	--	--	--	--	0%	--	--	--	0%
	T20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M140	--	--	--	--	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	VT05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%
	VM05	--	--	0%	0%	0%	0%	0%	--	0%	--	--	--	--	--	--	0%

Shading indicates relative % to aid in visual review

'--' indicates no data

Table F-5. Total Nitrogen and Total Phosphorous Exceedance Compliance Summary, 2006-2020. (Percent of Observations above Standard Value)

StationID	Total Nitrogen as N*	Total Phosphorus as P ⁺
M10	0%	0%
M20	0%	1%
M30	1%	13%
M40	0%	0%
M50	3%	27%
M60	1%	25%
T10	1%	3%
M70	2%	15%
M90	0%	6%
T20	1%	2%
M130	0%	2%
M140	73%	88%
M150	63%	89%
VT05	97%	90%
VM05	87%	99%

Shading indicates relative % to aid in visual review

'--' indicates no data

*Standard is not currently applicable

⁺Standard is currently applicable at M10, M20, M30, and M40 on

Table F-6. Year-by-Year Total Nitrogen and Total Phosphorous Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Total Nitrogen as N																	
	M10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M30	0%	7%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	0%	0%	0%	0%	8%	0%	8%	8%	0%	0%	8%	0%	0%	0%	15%	3%
	M60	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	1%
	T10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	1%
	M70	0%	10%	0%	0%	0%	0%	0%	0%	18%	0%	0%	0%	0%	5%	0%	2%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%
	T20	--	--	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	1%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M140	47%	83%	80%	100%	77%	77%	62%	85%	80%	53%	67%	93%	67%	67%	60%	73%
	M150	60%	92%	83%	82%	70%	50%	60%	80%	50%	30%	50%	60%	60%	60%	50%	63%
	VT05	--	--	100%	100%	88%	75%	100%	100%	100%	--	--	100%	100%	100%	100%	97%
	VM05	--	--	60%	86%	63%	63%	100%	100%	71%	--	--	100%	100%	100%	100%	87%

Shading indicates relative % to aid in visual review

'--' indicates no data

*Standard is not currently applicable

Table F-6. Year-by-Year Total Nitrogen and Total Phosphorous Exceedance Compliance Summary. (Percent of Observations above Standard Value)

Analyte	Station	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	All Years
Total Phosphorus as P⁺																	
	M10	0%	--	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	M20	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	--	1%
	M30	0%	20%	27%	14%	15%	23%	23%	31%	7%	8%	15%	0%	8%	8%	0%	13%
	M40	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	--	0%
	M50	20%	25%	13%	36%	31%	15%	31%	31%	14%	23%	46%	23%	15%	38%	38%	27%
	M60	13%	25%	8%	27%	40%	0%	0%	20%	30%	20%	60%	20%	44%	40%	40%	25%
	T10	0%	0%	8%	0%	0%	0%	0%	0%	10%	10%	0%	20%	0%	0%	0%	3%
	M70	0%	0%	0%	10%	15%	0%	0%	22%	27%	14%	17%	12%	44%	24%	12%	15%
	M90	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	28%	0%	6%	6%
	T20	--	--	0%	0%	0%	0%	0%	10%	0%	10%	0%	0%	0%	0%	0%	2%
	M130	0%	0%	0%	0%	0%	0%	0%	0%	17%	8%	0%	0%	0%	0%	8%	2%
	M140	100%	100%	100%	100%	92%	92%	100%	100%	100%	93%	100%	100%	100%	33%	13%	88%
	M150	100%	100%	100%	100%	90%	80%	100%	90%	100%	100%	100%	100%	100%	40%	30%	89%
	VT05	--	--	80%	57%	63%	88%	83%	100%	100%	--	--	100%	100%	100%	100%	90%
	VM05	--	--	100%	86%	100%	100%	100%	100%	100%	--	--	100%	100%	100%	100%	99%

Shading indicates relative % to aid in visual review

'--' indicates no data

*Standard is currently applicable at M10, M20, M30, and M40 only