



**Water Monitoring Result at M5B - Central Cooling Water Intake Group
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
					Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
3/12/18	14:25	Fine	Middle	4.0	23.90	23.90	23.95	7.53	7.53	7.54	33.13	33.13	33.13	79.9	79.9	80.0	5.57	5.57	5.57	4.10	4.08	4.07	8	8.00
	14:27		Middle	4.0	24.00	24.00		7.54	7.54		33.12	33.12		80.0	80.0		5.57	5.57		4.06	4.02		8	
5/12/18	15:05	Cloudy	Middle	4.0	23.20	23.20	23.20	7.72	7.72	7.72	32.90	32.90	32.91	75.9	76.3	76.4	5.36	5.40	5.40	4.34	4.41	4.39	4	4.00
	15:07		Middle	4.0	23.20	23.20		7.72	7.72		32.91	32.91		76.5	76.8		5.41	5.43		4.41	4.40		4	
7/12/18	18:15	Cloudy	Middle	4.0	22.40	22.40	22.40	7.80	7.80	7.80	33.31	33.31	33.31	77.8	78.2	78.0	5.57	5.60	5.59	5.70	5.64	5.67	4	4.00
	18:17		Middle	4.0	22.40	22.40		7.80	7.80		33.31	33.31		77.9	77.9		5.58	5.59		5.66	5.66		4	
10/12/18	9:20	Cloudy	Middle	4.0	21.10	21.10	20.95	7.26	7.26	7.28	33.63	33.63	33.64	71.2	71.1	71.1	5.21	5.21	5.21	5.88	5.85	5.85	6	6.00
	9:22		Middle	4.0	20.80	20.80		7.30	7.30		33.64	33.64		71.1	71.0		5.22	5.21		5.83	5.83		6	
12/12/18	11:10	Fine	Middle	4.0	20.70	20.70	20.60	7.35	7.35	7.37	33.54	33.54	33.54	73.7	74.6	74.8	5.45	5.52	5.54	5.80	5.82	5.82	6	6.50
	11:12		Middle	4.0	20.50	20.50		7.38	7.38		33.54	33.54		75.4	75.5		5.58	5.59		5.83	5.82		7	
14/12/18	16:35	Cloudy	Middle	4.0	19.90	19.80	19.88	7.12	7.12	7.13	33.10	33.10	33.09	79.0	79.1	78.8	5.92	5.93	5.90	4.55	4.56	4.57	4	4.00
	16:37		Middle	4.0	19.90	19.90		7.13	7.13		33.08	33.08		78.2	78.7		5.86	5.87		4.57	4.59		4	
17/12/18	13:23	Fine	Middle	3.5	21.40	21.40	21.40	7.25	7.25	7.26	33.81	33.81	33.81	57.2	57.3	56.9	4.15	4.15	<u>4.13</u>	4.77	4.77	4.77	4	4.00
	13:25		Middle	3.5	21.40	21.40		7.26	7.26		33.81	33.81		57.0	56.2		4.13	4.08		4.77	4.77		4	
19/12/18	14:44	Fine	Middle	3.5	21.30	21.30	21.30	7.31	7.31	7.32	33.87	33.87	33.86	63.9	63.4	64.0	4.65	4.61	4.65	4.06	4.07	4.06	3	3.00
	14:46		Middle	3.5	21.30	21.30		7.33	7.33		33.84	33.84		64.3	64.3		4.67	4.67		4.09	4.00		3	
21/12/18	15:55	Fine	Middle	4.0	22.10	22.10	22.15	7.41	7.41	7.42	33.78	33.78	33.78	79.7	80.3	80.3	5.71	5.75	5.75	4.54	4.55	4.59	4	4.00
	15:57		Middle	4.0	22.20	22.20		7.42	7.42		33.78	33.78		80.5	80.5		5.77	5.77		4.61	4.66		4	
24/12/18	8:10	Cloudy	Middle	4.0	20.20	20.20	20.20	7.35	7.35	7.35	33.59	33.59	33.60	70.5	71.0	71.4	5.24	5.28	5.31	5.98	5.66	5.90	7	7.00
	8:12		Middle	4.0	20.20	20.20		7.35	7.35		33.60	33.60		71.8	72.2		5.34	5.37		5.97	5.97		7	
27/12/18	10:00	Cloudy	Middle	4.0	20.90	20.90	20.90	7.22	7.22	7.23	33.35	33.35	33.35	67.0	67.5	67.5	4.93	4.96	4.96	6.27	6.24	6.26	8	8.00
	10:02		Middle	4.0	20.90	20.90		7.23	7.23		33.35	33.35		67.7	67.8		4.98	4.98		6.28	6.26		8	
29/12/18	13:05	Fine	Middle	4.0	19.70	19.70	19.65	7.29	7.29	7.30	33.64	33.64	33.65	77.5	77.7	78.4	5.81	5.83	5.88	4.33	4.33	4.32	3	3.50
	13:07		Middle	4.0	19.60	19.60		7.30	7.30		33.65	33.65		79.2	79.1		5.95	5.94		4.32	4.31		4	
31/12/18	14:15	Fine	Middle	4.0	19.20	19.20	19.15	6.69	6.69	6.70	33.04	33.04	33.05	77.8	77.9	78.1	5.91	5.93	5.94	4.78	4.77	4.75	3	3.00
	14:17		Middle	4.0	19.10	19.10		6.71	6.72		33.06	33.06		78.2	78.6		5.95	5.98		4.72	4.74		3	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Culvert J - Reference Station
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
3/12/18	14:20	Fine	Middle	3.5	24.20	24.20	24.25	7.50	7.50	7.51	33.02	33.02	33.02	78.5	78.4	78.4	5.45	5.44	5.44	4.38	4.36	4.37	8	8.50
	14:22		Middle	3.5	24.30	24.30		7.52	7.52		33.02	33.02		78.2	78.6		5.42	5.44		4.36	4.36		9	
5/12/18	15:00	Cloudy	Middle	3.5	23.40	23.40	23.40	7.70	7.70	7.71	32.93	32.93	32.93	72.0	72.9	72.9	5.07	5.13	5.13	4.11	4.11	4.11	5	5.50
	15:02		Middle	3.5	23.40	23.40		7.71	7.71		32.93	32.93		73.3	73.3		5.16	5.16		4.10	4.10		6	
7/12/18	18:10	Cloudy	Middle	3.5	22.10	22.10	22.10	7.76	7.76	7.77	33.29	33.29	33.29	76.2	76.8	76.5	5.48	5.52	5.50	5.95	5.87	5.90	4	4.00
	18:12		Middle	3.5	22.10	22.10		7.78	7.78		33.29	33.29		76.5	76.3		5.50	5.49		5.88	5.88		4	
10/12/18	9:15	Cloudy	Middle	3.5	21.00	21.00	20.95	7.29	7.29	7.29	33.58	33.58	33.59	68.8	69.7	69.7	5.04	5.11	5.11	6.12	6.14	6.15	7	6.50
	9:17		Middle	3.5	20.90	20.90		7.29	7.29		33.59	33.59		70.2	70.2		5.15	5.15		6.17	6.17		6	
12/12/18	11:05	Fine	Middle	3.5	20.40	20.40	20.30	7.25	7.25	7.29	33.58	33.58	33.59	80.1	80.0	79.5	5.91	5.90	5.86	5.90	5.93	5.89	4	4.00
	11:07		Middle	3.5	20.20	20.20		7.32	7.32		33.59	33.59		78.9	78.8		5.81	5.80		5.88	5.85		4	
14/12/18	16:30	Cloudy	Middle	4.0	20.30	20.30	20.35	7.07	7.07	7.09	33.17	33.17	33.18	80.5	81.2	81.0	5.97	6.03	6.02	4.77	4.77	4.77	5	4.50
	16:32		Middle	4.0	20.40	20.40		7.10	7.10		33.18	33.18		81.1	81.3		6.04	6.03		4.76	4.77		4	
17/12/18	13:19	Fine	Middle	3.5	21.30	21.30	21.30	7.26	7.26	7.26	33.59	33.59	33.59	56.5	56.4	56.5	4.12	4.11	4.12	5.22	5.24	5.23	5	4.50
	13:21		Middle	3.5	21.30	21.30		7.26	7.26		33.58	33.58		56.5	56.7		4.12	4.13		5.23	5.21		4	
19/12/18	14:40	Fine	Middle	3.5	21.60	21.60	21.65	7.29	7.29	7.30	33.72	33.72	33.75	58.1	58.5	58.6	4.20	4.23	4.23	4.55	4.54	4.57	3	3.50
	14:42		Middle	3.5	21.70	21.70		7.31	7.31		33.78	33.78		58.8	58.8		4.25	4.25		4.60	4.57		4	
21/12/18	15:50	Fine	Middle	3.5	22.50	22.50	22.60	7.31	7.31	7.35	33.71	33.71	33.71	78.9	77.9	78.2	5.61	5.52	5.55	4.55	4.54	4.50	5	5.00
	15:52		Middle	3.5	22.70	22.70		7.39	7.39		33.71	33.71		78.1	78.0		5.55	5.53		4.45	4.47		5	
24/12/18	8:00	Cloudy	Middle	3.5	20.20	20.20	20.15	7.32	7.32	7.33	33.59	33.59	33.59	63.8	64.5	64.7	4.75	4.80	4.81	6.37	6.38	6.38	6	5.00
	8:02		Middle	3.5	20.10	20.10		7.34	7.34		33.59	33.59		65.1	65.3		4.84	4.86		6.38	6.37		4	
27/12/18	9:55	Cloudy	Middle	3.5	21.00	21.00	21.00	7.19	7.19	7.20	33.22	33.22	33.22	61.6	61.9	62.6	4.52	4.54	4.59	6.37	6.37	6.38	5	5.00
	9:57		Middle	3.5	21.00	21.00		7.20	7.20		33.22	33.22		63.3	63.6		4.65	4.66		6.38	6.38		5	
29/12/18	13:00	Fine	Middle	3.5	19.30	19.30	19.25	7.16	7.16	7.22	33.48	33.48	33.57	80.0	79.1	79.0	6.06	5.99	5.99	3.94	3.92	3.93	4	3.50
	13:02		Middle	3.5	19.20	19.20		7.27	7.27		33.66	33.66		78.5	78.4		5.95	5.94		3.93	3.93		3	
31/12/18	14:10	Fine	Middle	3.5	19.20	19.20	19.20	6.77	6.77	6.77	33.43	33.43	33.43	74.0	74.1	74.1	5.61	5.62	5.62	4.91	4.93	4.92	2	2.50
	14:12		Middle	3.5	19.20	19.20		6.77	6.77		33.43	33.43		74.1	74.1		5.62	5.62		4.92	4.91		3	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at M5B - Central Colling Water Intake Group
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
3/12/18	10:30	Fine	Middle	3.5	23.80	23.80	23.80	7.48	7.48	7.48	33.11	33.11	33.11	74.9	75.2	75.4	5.22	5.24	5.25	3.37	3.37	3.37	5	5.00
	10:32		Middle	3.5	23.80	23.80		7.47	7.47		33.11	33.11		75.7	75.8		5.27	5.28		3.36	3.36		5	
5/12/18	9:35	Fine	Middle	4.0	23.40	23.40	23.45	7.59	7.59	7.60	32.92	32.92	32.92	75.0	75.5	75.3	5.27	5.31	5.30	4.29	4.26	4.26	5	5.00
	9:37		Middle	4.0	23.50	23.50		7.60	7.60		32.92	32.92		75.4	75.4		5.30	5.30		4.23	4.26		5	
7/12/18	11:40	Fine	Middle	4.0	22.80	22.80	22.80	7.60	7.60	7.61	33.23	33.23	33.24	75.9	76.0	76.1	5.40	5.40	5.41	5.28	5.28	5.31	6	6.00
	11:42		Middle	4.0	22.80	22.80		7.62	7.62		33.24	33.24		76.1	76.3		5.41	5.43		5.29	5.38		6	
10/12/18	1:32	Cloudy	Middle	3.5	19.60	19.60	19.60	8.13	8.13	8.13	33.01	33.01	33.01	77.1	77.3	78.5	5.81	5.83	5.92	1.24	1.26	1.27	4	4.50
	1:33		Middle	3.5	19.60	19.60		8.13	8.13		33.01	33.01		79.8	79.7		6.02	6.01		1.31	1.28		5	
12/12/18	2:27	Cloudy	Middle	3.5	18.40	18.40	18.40	8.30	8.30	8.30	31.59	31.59	31.59	79.2	80.4	79.7	6.16	6.27	6.21	1.13	1.10	1.09	5	4.50
	2:28		Middle	3.5	18.40	18.40		8.30	8.30		31.59	31.59		80.5	78.6		6.27	6.12		1.07	1.05		4	
14/12/18	3:32	Cloudy	Middle	3.5	19.10	19.10	19.10	8.23	8.23	8.23	33.45	33.46	33.44	80.2	80.5	80.2	6.10	6.13	6.10	1.36	1.44	1.38	5	5.00
	3:33		Middle	3.5	19.10	19.10		8.23	8.23		33.46	33.40		80.7	79.4		6.14	6.04		1.40	1.32		5	
17/12/18	4:50	Cloudy	Middle	3.5	18.80	18.80	18.80	8.15	8.15	8.15	32.41	32.41	32.41	79.6	80.6	80.5	6.12	6.19	6.19	1.31	1.38	1.37	4	4.00
	4:51		Middle	3.5	18.80	18.80		8.15	8.15		32.41	32.41		80.8	80.8		6.22	6.22		1.34	1.44		4	
19/12/18	9:27	Fine	Middle	3.5	20.40	20.40	20.45	7.34	7.34	7.35	33.80	33.80	33.81	59.9	59.9	59.6	4.43	4.43	<u>4.41</u>	4.76	4.81	4.82	4	4.00
	9:29		Middle	3.5	20.50	20.50		7.35	7.35		33.81	33.81		59.7	59.0		4.41	4.36		4.86	4.86		4	
21/12/18	1:24	Cloudy	Middle	3.0	20.90	20.90	20.90	8.07	8.07	8.07	33.25	33.25	33.25	79.2	79.9	79.4	5.83	5.88	5.84	1.69	1.72	1.70	4	3.50
	1:25		Middle	3.0	20.90	20.90		8.07	8.07		33.25	33.25		79.1	79.2		5.82	5.83		1.77	1.62		3	
24/12/18	1:45	Cloudy	Middle	3.5	19.70	19.70	19.70	8.01	8.01	8.01	30.42	30.43	30.43	77.4	78.4	79.0	5.91	5.99	6.04	1.51	1.55	1.53	<2	<2
	1:46		Middle	3.5	19.70	19.70		8.01	8.01		30.43	30.43		80.1	80.2		6.12	6.12		1.58	1.49		<2	
27/12/18	3:35	Cloudy	Middle	3.5	20.00	20.00	20.00	8.14	8.14	8.14	33.01	33.01	33.01	79.2	79.8	80.3	5.86	5.91	5.95	1.21	1.27	1.28	5	4.50
	3:36		Middle	3.5	20.00	20.00		8.14	8.14		33.01	33.01		80.9	81.4		5.99	6.02		1.31	1.33		4	
29/12/18	3:23	Cloudy	Middle	3.5	17.90	17.90	17.90	8.10	8.10	8.10	31.67	31.67	31.67	79.7	79.6	79.2	6.26	6.15	6.20	1.11	1.18	1.18	5	4.50
	3:24		Middle	3.5	17.90	17.90		8.10	8.10		31.67	31.67		78.8	78.6		6.19	6.18		1.21	1.23		4	
31/12/18	5:45	Cloudy	Middle	3.5	16.40	16.40	16.40	8.12	8.12	8.12	32.94	32.94	32.94	77.1	77.8	77.6	6.19	6.24	6.24	1.36	1.32	1.28	<2	2.00
	5:46		Middle	3.5	16.40	16.40		8.12	8.12		32.94	32.94		78.1	77.3		6.27	6.25		1.26	1.18		2	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.



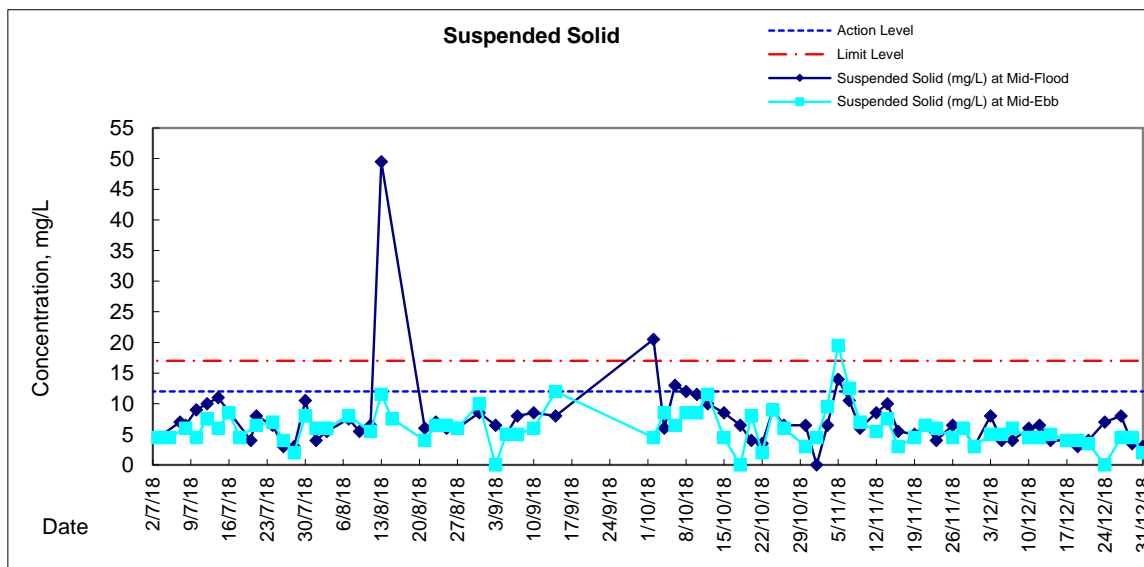
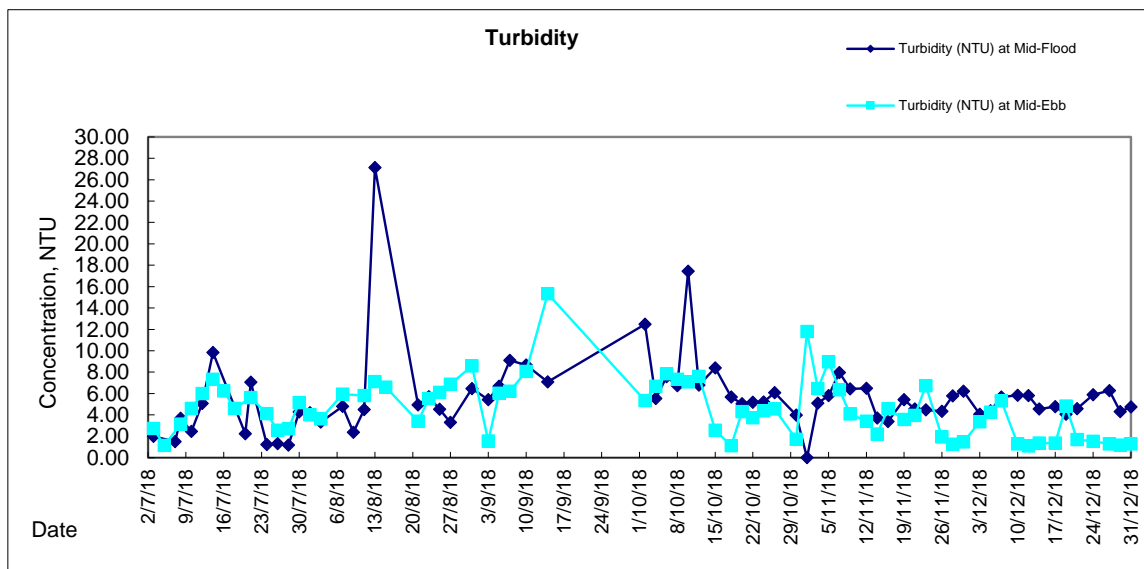
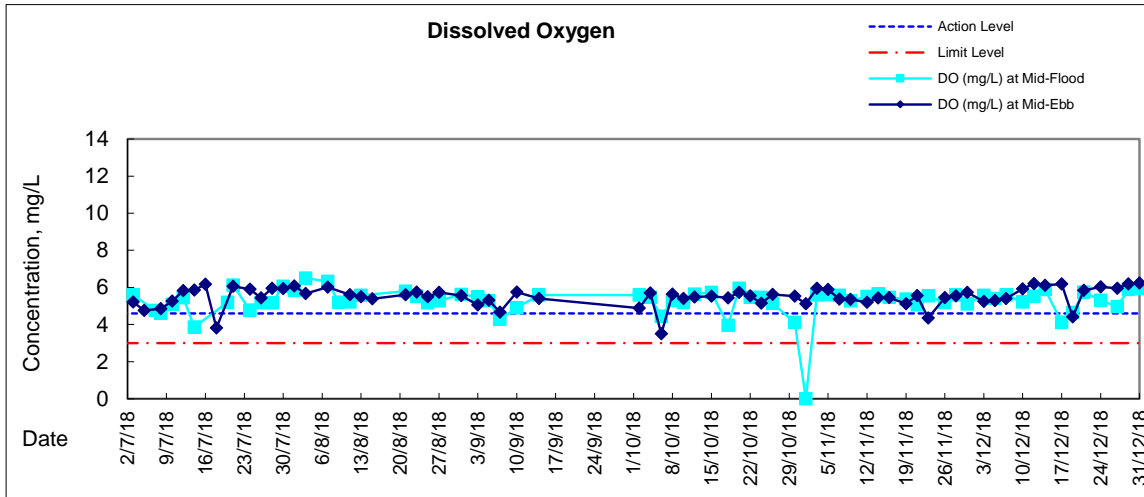
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
3/12/18	10:35	Fine	Middle	4	23.80	23.80	23.80	7.48	7.48	7.49	33.08	33.08	33.09	73.1	73.5	74.4	5.11	5.13	5.20	3.68	3.71	3.71	5	5.00
	10:37		Middle	4	23.80	23.80		7.49	7.49		33.09	33.09		75.4	75.5		5.27	5.27		3.70	3.73		5	
5/12/18	9:30	Fine	Middle	4	23.70	23.70	23.80	7.57	7.57	7.57	32.74	32.74	32.75	71.8	72.2	72.2	5.02	5.05	5.05	4.23	4.21	4.19	3	3.00
	9:32		Middle	4	23.90	23.90		7.57	7.57		32.75	32.75		72.3	72.6		5.05	5.07		4.15	4.16		3	
7/12/18	11:35	Fine	Middle	4	22.70	22.70	22.70	7.54	7.54	7.56	33.02	33.02	33.02	71.8	71.9	72.0	5.12	5.13	5.14	5.43	5.43	5.43	3	3.50
	11:36		Middle	4	22.70	22.70		7.57	7.57		33.01	33.01		72.1	72.2		5.15	5.15		5.42	5.43		4	
10/12/18	1:39	Cloudy	Middle	3	19.40	19.40	19.40	8.19	8.19	8.19	33.16	33.16	33.16	79.0	78.9	79.3	5.97	5.98	5.99	1.46	1.53	1.47	4	4.00
	1:40		Middle	3	19.40	19.40		8.19	8.19		33.16	33.16		79.9	79.2		6.04	5.98		1.42	1.48		4	
12/12/18	2:34	Cloudy	Middle	3	18.60	18.60	18.60	8.34	8.34	8.34	32.76	32.76	32.76	78.4	78.3	78.7	6.03	6.03	6.06	1.17	1.21	1.23	4	4.00
	2:35		Middle	3	18.60	18.60		8.34	8.34		32.76	32.76		79.2	79.0		6.10	6.08		1.24	1.29		4	
14/12/18	3:39	Cloudy	Middle	3	19.30	19.30	19.30	8.31	8.31	8.31	31.45	31.45	31.45	79.1	79.8	79.8	6.06	6.12	6.12	1.53	1.59	1.61	4	4.00
	3:04		Middle	3	19.30	19.30		8.31	8.31		31.45	31.45		80.1	80.2		6.14	6.15		1.64	1.68		4	
17/12/18	5:00	Cloudy	Middle	3	18.90	18.90	18.85	8.21	8.21	8.21	33.16	33.17	33.17	78.9	80.4	79.6	6.02	6.10	6.07	1.52	1.55	1.57	5	4.50
	5:01		Middle	3	18.80	18.80		8.21	8.21		33.17	33.17		79.6	79.6		6.08	6.08		1.60	1.62		4	
19/12/18	9:23	Fine	Middle	4	20.20	20.20	20.25	7.30	7.30	7.31	33.66	33.66	33.66	55.9	55.7	55.7	4.15	4.13	4.12	4.70	4.67	4.68	4	3.50
	9:25		Middle	4	20.30	20.30		7.32	7.32		33.65	33.65		55.9	55.2		4.11	4.10		4.66	4.67		3	
21/12/18	1:33	Cloudy	Middle	3	20.80	20.80	20.80	8.11	8.11	8.11	33.28	33.28	33.28	77.9	76.7	77.4	5.70	5.65	5.69	1.82	1.88	1.76	4	4.50
	1:34		Middle	3	20.80	20.80		8.11	8.11		33.28	33.28		78.0	76.8		5.74	5.66		1.64	1.71		5	
24/12/18	1:51	Cloudy	Middle	3	19.80	19.80	19.80	8.05	8.05	8.05	32.03	32.03	32.03	79.5	80.0	79.9	6.00	6.04	6.03	1.67	1.70	1.66	5	5.50
	1:52		Middle	3	19.80	19.80		8.05	8.05		32.03	32.03		80.0	79.9		6.04	6.04		1.62	1.64		6	
27/12/18	3:42	Cloudy	Middle	3	20.60	20.60	20.60	8.17	8.17	8.17	32.64	32.64	32.64	77.0	77.4	77.7	5.71	5.74	5.76	1.39	1.42	1.47	8	8.00
	3:43		Middle	3	20.60	20.60		8.17	8.17		32.64	32.64		78.1	78.2		5.79	5.80		1.53	1.54		8	
29/12/18	3:29	Cloudy	Middle	3	18.30	18.30	18.30	8.14	8.14	8.14	32.88	32.88	32.88	78.4	78.5	78.1	6.07	6.08	6.05	1.31	1.34	1.28	4	3.50
	3:30		Middle	3	18.30	18.30		8.14	8.14		32.88	32.88		77.4	77.9		6.00	6.05		1.26	1.22		3	
31/12/18	5:50	Cloudy	Middle	3	16.50	16.50	16.50	8.17	8.17	8.17	33.29	33.29	33.29	76.1	77.8	77.8	6.08	6.22	6.22	1.29	1.41	1.28	<2	<2
	5:51		Middle	3	16.50	16.50		8.17	8.17		33.29	33.29		78.7	78.7		6.29	6.28		1.18	1.22		<2	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.



Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups





Graphic Presentation of Water Quality Result of Culvert J - Reference Station

